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April 25, 2014

Mr. Perry Katz
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Mail Code: 19TH FL
New York, NY 10007-1866

**RE: EISB Pilot Study Report for the Intermediate Groundwater Near Well 128
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey**

Dear Mr. Katz:

Enclosed for your review is the *EISB Pilot Study Report for the Intermediate Groundwater Near Well 128* (4 hard copies). This report presents the results of an enhanced in-situ bioremediation (EISB) pilot study conducted in the intermediate alluvial zone south of the Site at the corner of Barbara Drive and Schuyler Avenue.

The pilot study system included extraction of groundwater containing volatile organic constituents (VOCs), amendment of the extracted groundwater with electron donor, and recharge of the amended groundwater to promote biodegradation of the VOCs. The objective of the EISB pilot study was to collect the data necessary to evaluate the effectiveness and implementability of EISB as a remedial technology for the intermediate zone of the aquifer.

If you have any questions, please contact me at (973) 492-7733.

Sincerely,

A handwritten signature in black ink that reads "David E. Epps".

David E. Epps, P.G.
Project Director, Pompton Lakes Works
DuPont Corporate Remediation Group

cc: Anthony Cinque – NJDEP (2 hard copies)
PLW Central File

Prepared for

DuPont Corporate Remediation Group
Wilmington, Delaware

**EISB PILOT STUDY REPORT FOR THE
INTERMEDIATE GROUNDWATER
NEAR WELL 128
POMPTON LAKES WORKS
POMPTON LAKES, NEW JERSEY**

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TR0352A

24 April 2014

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LIST OF ABBREVIATIONS

cis-1,2-DCE	cis-1,2-dichloroethene
CGMP	Comprehensive Groundwater Monitoring Program
CT	carbon tetrachloride
1,1-DCA	1,1-dichloroethane
1,2-DCA	1,2-dichloroethane
1,1-DCE	1,1-dichloroethene
<i>Dhc</i>	<i>Dehalococcoides</i>
DHGs	dissolved hydrocarbon gases (i.e., ethene, ethane, methane)
DO	dissolved oxygen
DuPont	DuPont Corporate Remediation Group
EISB	Enhanced In Situ Bioremediation
ft	feet
ft bgs	feet below ground surface
gpm	gallons per minute
HASP	health and safety plan
mg/L	milligrams per liter
ML	multilevel monitoring well
NELAP	National Environmental Laboratory Accreditation Program
ORP	oxidation reduction potential
PCE	tetrachloroethene
PLW	Pompton Lakes Works
PSA	project safety analysis
qPCR	quantitative polymerase chain reaction
SiREM	SiREM Laboratory
TCA	1,1,1-trichloroethane
TCE	trichloroethene
TOC	total organic carbon
trans-1,2-DCE	trans-1,2-dichloroethene
TTA	target treatment area
UIC	underground injection control
VC	vinyl chloride
<i>vcrA</i>	vinyl chloride reductase
VOC	volatile organic compound

1. INTRODUCTION

This report has been prepared by Geosyntec Consultants, Inc. (Geosyntec) for the DuPont Corporate Remediation Group (DuPont). It presents the results of a pilot study conducted at the former E. I. du Pont de Nemours and Company (DuPont) Pompton Lakes Works (PLW) site (the Site) using enhanced in situ bioremediation (EISB). The system included extraction of groundwater containing VOCs from the intermediate alluvial zone south of the Facility at the corner of Barbara Drive and Schuyler Avenue, amendment of the extracted groundwater with electron donor, and recharge of the amended groundwater to promote biodegradation of the VOCs. The location of the Site is presented in Figure 1, and Figure 2 shows the location of the pilot study.

The objective of the EISB pilot study was to collect the data necessary to evaluate the effectiveness and implementability of EISB as a remedial technology for the intermediate zone of the aquifer. When potential remedial technologies are screened during the feasibility study/corrective measures study process, they are evaluated using screening criteria to identify a technology for implementation. Two of these criteria are effectiveness and implementability. The effectiveness criterion considers the degree to which the proposed action can attain the remedial action objectives and the extent to which the action provides sufficient long-term control to be protective of human and environmental receptors. The implementability criterion considers technical and administrative factors such as engineering and scientific feasibility of the technology; availability of services and resources required for implementation; uncertainties associated with the construction, operation, and performance; and impacts on local community.

1.1 Background

In January 2010, DuPont submitted a Remedial Technology Evaluation for Off-Site Groundwater Contamination (Parsons Corporation [Parsons], 2010) at the request of the New Jersey Department of Environmental Protection (NJDEP) that presented potential technologies that could be used to address groundwater contamination south of the former manufacturing area. The conclusion of this report was that operation of the existing groundwater extraction/treatment system had reduced concentrations in the eastern portion of the off-Site plume area. In addition, natural reductive dechlorination was occurring in the western portion of the off-Site plume area which had also reduced concentrations as measured in monitoring wells located in the shallow and intermediate portion of the aquifer. A recommendation in the report was to complete a high resolution characterization within the well 128 area so as to obtain information with respect to aquifer characteristics (e.g., total organic carbon, nutrient concentration, and vertical profile of contaminants).

This work was undertaken in 2010 and the Off-Site Groundwater IRM Characterization Report results were reported to NJDEP and United States Environmental Protection Agency (USEPA) (Geosyntec, 2010b). Activities included screening for VOCs using a membrane interface probe at eight locations, collection of groundwater samples from six locations using the Waterloo^{APS}

sampling system and two continuous soil cores near well 128 area. The shallow zone of the aquifer is significantly more permeable compared to the intermediate zone. A total of 76 groundwater samples were collected for analysis of VOCs. Significant conclusions of the study were that Site-related contaminants are distributed vertically from approximately 30 to 80 feet below ground surface (ft bgs) with higher concentrations in the 45 to 75 ft bgs interval. Concentrations decreased below this depth and the presence of ethene indicates that complete dechlorination is occurring. There is no distinct confining unit between the shallow and the intermediate groundwater. Based on the work completed a more detailed evaluation of the intermediate portion of the aquifer was recommended to determine the effects of hydraulic conductivity and permeability on the implementability of injection based remedial technologies to address zones where elevated VOC concentrations are present. This information would then be used to plan activities for a pilot study using either EAB or in situ chemical oxidation (ISCO).

A framework to evaluate the implementability of injection based technologies was developed (Figure 3). The first step was to conduct Site-specific tests of hydraulic conductivity in order to evaluate the effect on delivery of amendments to those portions of the aquifer where sufficient concentrations are present such that the technology will be effective. The studies completed and reported (Geosyntec 2011) confirmed the hydraulic parameters (hydraulic conductivity, gradient and ambient flow velocity) in the shallow and intermediate aquifer. The hydraulic assessments confirmed for hydraulic conductivity there is a reasonable difference between the upper (shallow) and lower (intermediate) zones (i.e., about 5 times but less than 1 order of magnitude). Hydraulic conductivity measurements were consistent with historical data. Short term hydraulic tests (i.e., one hour step tests and a two hour pumping test) were able to provide relevant and useful data. The hydraulic conductivity measurements obtained in these tests tended to be in the higher end range of values reported by Geraghty & Miller (1986).

The gradients measured in the 128 area were small and typically closer to the lower range of values reported by Geraghty & Miller (1986). The low gradients in the intermediate zone along with the low groundwater flow velocity will limit the dispersion of amendments and extend the time needed to distribute electron donor or oxidant in the injection area. Furthermore, amendments (either ISCO or EISB) have half-lives and their degradation would limit the extent of treatment. These results suggested that the area was not ideal for injection based technologies.

The NJDEP requested that a pilot study be conducted in the 128 area to assess the implementability and effectiveness and obtain site specific data. A work plan was developed (Geosyntec 2012) and approved by the agency on May 2, 2012. This report presents the findings of the EISB pilot study.

1.2 Report Organization

The remainder of this report contains sections that provide information on site conditions (Section 2), an overview of the pilot study including objectives and an overview of the system operation and system components (Section 3). Results from the pilot study are presented in

section 4. Section 5 contains the summary of the EISB pilot study. Section 6 contains an evaluation of the potential full scale configurations for EISB at the 128 area. Section 7 contains conclusions and report references cited are listed in Section 8.

2. SITE CONDITIONS

The Remedial Technology Evaluation for Off-Site Groundwater Contamination (Parsons Corporation [Parsons], 2010) and the Characterization Work-Plan for Off-Site Groundwater (Geosyntec, 2010a) have previously described the geology, hydrogeology, and distribution of contaminants at the Site. The Facility is situated within the Highlands Physiographic Province adjacent to the northwestern boundary of the Newark Basin. Two primary geologic units, crystalline bedrock and alluvial deposits consisting of colluviums and stratified glacial drift, underlie the Site. The alluvial deposits are up to 170 feet (ft) thick and have been described as a fining downward stratified glacial sequence without distinct lithologic contacts. It has been divided into three zones in past reports, termed shallow, intermediate and deep.

The shallow alluvial zone is composed of colluvium, fill and glacial till deposits, which are generally poorly sorted coarse- to medium-grained sand and gravel, and may contain layers of very coarse gravel. This zone ranges from 5 to 20 ft thick. The intermediate alluvial zone consists of glacial fluvial deposits, which are generally very fine- to medium-grained sand, and ranges from 15 to 80 ft thick. The deep alluvial zone consists of glacial lacustrine deposits, which are generally very fine-grained silty sand and very fine-grained sandy silt. The thickness of the deep zone varies widely and may be up to 90 ft thick where the bedrock surface is structurally low.

The Off-Site Groundwater Interim Remedial Measure (IRM) Characterization Report (Geosyntec, 2010b) contains a summary of the lithology in the vicinity of well 128. In general, the upper 20 ft of alluvium consists of light olive brown, generally poorly sorted sand. This is underlain by an olive brown poorly to moderately well sorted sand between 20 and 38 feet below ground surface (ft bgs). Together these sands comprise the shallow zone; well 128-S is screened across this zone, from about 7 to 27 ft bgs. The intermediate zone at this location spans the interval from about 38 ft bgs to about 78 ft bgs. The upper portion (38 to 48 ft bgs) has sands which are gray-brown and poorly sorted. Below this the lithology is composed of olive and dark gray, moderately well-sorted sand containing silt layers. Well 128-I is screened in the lower portion of the intermediate zone, from 62 to 72 ft bgs. The deep zone at this location is below about 78 ft bgs and composed of dark gray-brown silt with some clay and dark brown interbeds; well 128-D is screened from 126 to 146 ft bgs.

2.1 Site Hydrogeology

Water depths in wells at Facility range from approximately 3 to 25 ft bgs under natural conditions. The saturated thickness of the alluvial aquifer ranges from approximately 5 ft in the northern operating valley to 165 ft near the Pompton Lake shore. At location 128-I, the depth to water is approximately 10 ft bgs. The alluvial deposits appear to respond to pumping as a single unit aquifer system. The onsite groundwater extraction and treatment system is currently operating to prevent off-site migration of VOCs. Therefore, the pattern of groundwater flow on-

Site indicates a south to southeasterly flow with cones of depression locally at the recovery wells and water table mounds at the injection beds.

2.2 Hydrogeology of the 128 Area

Previous hydraulic assessments (Geosyntec, 2011) confirmed that for hydraulic conductivity there is a reasonable difference between the upper (shallow) and lower (intermediate) zones (i.e., about 5 times but less than 1 order of magnitude) and these measurements are consistent with historical data. The hydraulic conductivity measurements obtained in from the tests on the wells in the 128 area tended to be in the higher end range of values reported by Geraghty & Miller (1986). The groundwater gradients measured in the 128 area are small and typically closer to the lower range of values reported by Geraghty & Miller (1986). Based on the results of the detailed testing, completed within the shallow and intermediate portions of the aquifer, the ambient groundwater velocity is relatively low.

2.3 Groundwater Chemistry

Site investigations have shown that there is VOC-impacted groundwater both on- and off-Site at the Facility (OBG, 2014). As stated in the Comprehensive Groundwater Monitoring Program (CGMP), the following contaminants are regularly monitored: tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1-trichloroethane (TCA) 1,1-dichloroethane (1,1-DCA), 1,2-dichloroethane (1,2-DCA), 1,1-dichloroethene (1,1-DCE), cis-1,2-DCE, trans-1,2-dichloroethene (trans-1,2-DCE), carbon tetrachloride (CT) and VC. As outlined in the 2013 annual report, many of these contaminants (PCE, TCE, 1,2-DCA, 1,1-DCE, cis-1,2-DCE, trans-1,2-DCE and VC) are above the New Jersey standard for Class IIA (GWIIA) in wells 128, 128-I and 128-D. The Off-Site Groundwater IRM Characterization Report (Geosyntec, 2010b) presented the findings of the detailed characterization of the 128 area and the baseline sampling for this study indicate that the highest concentrations of VOCs are present in the intermediate zone.

3. EISB SYSTEM OVERVIEW AND MAJOR COMPONENTS

The objective of the proposed EISB pilot study was to collect the data necessary to evaluate the effectiveness and implementability of EISB as a remedial technology for the intermediate zone of the aquifer.

The EISB technology consists of in situ treatment of contaminated groundwater using anaerobic reductive dechlorination, a metabolic process in which bacteria gain energy and grow, as one or more chlorine atoms on a chlorinated hydrocarbon are replaced with hydrogen. Certain bacterial species are known to use VOCs metabolically, but only *Dehalococcoides (Dhc)* species are known to convert them completely to ethene and/or ethane. Chloride is produced in a sequence of successive dechlorination steps. Other bacteria, such as sulfate-reducing bacteria are known to dechlorinate certain VOCs in cometabolic processes, which although generally slower may contribute to the overall removal.

Treatment by EISB consists of the introduction of an amendment to enhance and/or promote reductive dechlorination of VOCs. The amendment will consist of an electron donor (sodium lactate), an organic carbon compound that undergoes oxidation as the microbes utilize the substrate to cause reduction of the target VOCs. The amendment will also include a consortium of bacterial cultures to ensure that the chlorinated ethenes are completely and rapidly degraded to ethene, ensuring that the system does not stall at the lesser-chlorinated species cis-1,2-dichloroethene (cis-DCE) and vinyl chloride (VC).

3.1 Work Plan and Permits

A work plan was prepared (Geosyntec 2012) and approved by the NJDEP on May 2, 2012. A permit by rule for groundwater re-injection was required. A copy of the permit issued by New Jersey Department of Environmental Protection (NJDEP) is provided in Appendix A. This permit was restricted to a six month (180 day) operational period.

3.2 Overview of EISB System

The system included extraction of groundwater containing VOCs from the intermediate alluvial zone south of the Facility at the corner of Barbara Drive and Schuyler Avenue, amendment of the extracted groundwater with electron donor, and recharge of the amended groundwater to promote biodegradation of the VOCs. Figure 2 shows location of wells used in the pilot study and those nearby. Figure 4 provides a cross sectional and process flow schematic of the pilot test.

Recirculation of groundwater was conducted for six months, the length of the Permit-by-Rule, which allows the re-injection of extracted groundwater. During the pilot study the following activities were conducted: amendment of electron donor to extracted groundwater; amendment of tracer to extracted groundwater, bioaugmentation, groundwater sampling, and soil gas sampling. During recirculation, water level data were collected to assess the effects of extraction

and re-injection. System operating parameters, such as flow rates, injection time and volumes, extraction and injection well water levels, and donor concentrations were measured and recorded.

Packers were installed in the blank casing sections of wells IW01, IW02, IW03 and EW01, to isolate the intermediate aquifer from the more permeable shallow zone. Each of the packers was inflated with nitrogen to the specified pressure.

The following subsections provide more detailed information on the system.

3.2.1 EISB System Components

The EISB system consists of one extraction well (EW01) and one recharge well (IW02). Groundwater is extracted from EW01 where it is directed through a filter system to remove particulates. Following filtration the groundwater is amended continuously (for the first 53 days) with potassium bromide (KBr) by the tracer metering pump and periodically (over the study period) with sodium lactate by the electron donor metering pump. Groundwater is then transferred from the extraction well vault through a conveyance line to the injection well vault where it is distributed into the injection well.

After the system components were installed, an operation, maintenance and monitoring manual (OM&M Manual) was developed (Geosyntec, 2013). The manual was prepared to comply with the terms and conditions outlined in the Permit-By-Rule and used in conjunction with the construction drawing package, the as-built equipment, instrumentation and piping lists, the system component information furnished by equipment vendors and supporting documentation for system monitoring and sampling.

3.2.2 Extraction and Injection System

The extraction well consists of a 4-inch diameter Schedule 80 polyvinyl chloride (PVC) casing to a total depth of approximately 75 ft bgs. Components within this well include the pump, the pump discharge line and low-level and high-level float switches. A groundwater conveyance line runs below ground surface from the extraction well to the injection well vault. The extraction well is equipped with a submersible stainless steel pump with a 0.5 horsepower (HP) motor which is used to move groundwater from the well to the extraction well vault. Extracted groundwater is directed through an inline cartridge filter system to remove particulates. The groundwater recharge component of the system consists of one injection well. From the extraction well vault the filtered groundwater was transferred through a conveyance line to the injection well vault where it was then injected back into the ground via the injection well. The groundwater was amended with tracer through the tracer donor manifold and with electron donor through the electron donor manifold in the extraction well vault as discussed further below. The injection well consists of a 4-inch diameter Schedule 80 polyvinyl chloride (PVC) casing to a total depth of approximately 75 ft bgs connected via conveyance piping to the drop tube, an air

release vacuum breaker valve for air flow, and a level logger for water level data. The groundwater conveyance line is piped below ground surface from the extraction well vault to the wellhead. Well completion logs are provided in Appendix B. Well completion details are provided in Table C-2 in Appendix C.

The injection well (IW02) is designed to operate under pressure. The flow rates of the injection well are measured at the flow meter inside the extraction well vault. The operation of the system would cease in the case of a high pressure in the injection well and the system would need to be manually restarted after the pressure in the injection well has dropped.

3.2.3 Amendment Delivery

Conservative tracer (potassium bromide) and electron donor (sodium lactate) were amended to the groundwater using dedicated delivery systems. The details of each delivery system are provided below.

Tracer Amendment Delivery System

Conservative groundwater tracer (potassium bromide) was added during amendment to assess the progress of the electron donor along the flow path between IW02 and EW01. Tracer was amended to the groundwater after filtration in the extraction well vault. The tracer line connects into the groundwater conveyance line, after which the groundwater conveyance line exits the extraction well vaults towards the injection well vault.

Once the recirculation began, conservative groundwater tracer was introduced at the injection well and samples collected from the monitoring well network to assess presence or absence of tracer. Previous hydraulic assessments (Geosyntec 2011) have provided information on the natural hydraulic conditions. Tracer concentrations were used to assess operating conditions and parameters. Unlike donor addition (see below) tracer was added continuously to groundwater for the 53 days. A concentrated stock solution of tracer was stored in a container within the extraction well vault and metered into the groundwater at a target concentration of 100 mg/L as bromide. Groundwater samples were collected and analyzed using an ion selective electrode.

Donor Amendment Delivery System

Electron donor was amended to the groundwater after filtration in the extraction well vault. Electron donor lines connect into groundwater conveyance line, after which the groundwater conveyance line exits the extraction well vault towards the injection well vault. The vaults provide access to the groundwater recharge conveyance line. The electron donor used during operation of the EISB system was a 60% lactate solution using sodium lactate provided by JRW Remediation (Lenexa, KS). The lactate was typically added once per day to minimize fouling of the injection well. The target time-weighted average addition was 165 mg/L as lactate.

3.2.4 Monitoring Wells and Soil Gas Probe

As part of the hydraulic assessment completed previously, two multi-level monitoring wells (ML02 and ML04) were installed between IW02 and EW01 (Figure 2). As shown in Figure 4 each monitoring location has seven discrete sample intervals. Each ML well had three monitoring points in the shallow and four in the intermediate aquifer zone. Well completion logs for each ML are provided in Appendix B. Well completion details are provided in Table C-2 in Appendix C.

A soil gas probe (SGP) was installed within the pilot area (see Figure 2), to assess the effects of groundwater treatment in the vadose zone. The SGP was monitored for potential changes in VOC concentrations, if present, in the unsaturated soils overlying the study area. The soil gas probe completion details are provided in Appendix B.

4. RESULTS

The results of the pilot study are presented in the following sections.

4.1 Operational Summary

A summary log of operational activities is provided in Table 1 with supporting information on the O&M activities provided in Appendix C. Water levels were taken by both manual (water tape) and electronic (level transducers) and a compiled summary is included in Appendix C. A summary of flow rates, tracer and electron donor addition over system operations is included in Appendix C. From June 17 to June 23, 2013 initial testing of the EISB system was completed and this included limited groundwater recirculation to test the mechanical and control systems. Recirculation of groundwater for the EISB system was officially started on June 24, 2013. Regulatory agencies were notified via e-mail as per the PBR requirements. The system was shut down on December 20, 2013.

Groundwater was extracted from EW01 at a target rate of approximately 3 gallons per minute (GPM) and an operator would adjust the system flow rates as needed. Potassium bromide (KBr) was continuously amended to the re-injected groundwater from June 24 to August 16, 2013. The target injection concentration for bromide was 100 mg/L. KBr addition was originally planned for up to 4 weeks, but was extended to ensure there is sufficient bromide in the study area for evaluation. A total of 100 kg of bromide was added to the groundwater in the pilot study. More details on the bromide tracer addition is provided below (Section 4.3).

Sodium lactate additions began on July 12, 2013. The target time weighted average of lactate was 165 milligrams per liter (mg/L) and based on system flow. The stoichiometric donor demand in groundwater was previously estimated to be approximately 33 milligrams per liter (mg/L) of sodium lactate based on the observed concentrations of VOCs and reducible inorganic species (primarily sulfate; Geosyntec, 2010c). Donor demand was calculated with a safety factor to account for variations in VOC concentrations, desorption of VOCs from the aquifer matrix, subsurface heterogeneities, consumption of donor by other microbial processes, and the intent to extend the active treatment zone within the study area. Over the recirculation period 110 gallons of sodium lactate solution was added. This is about 330 kg of lactate and given the total volume of recirculated water the achieved TWA was 194 mg/L as lactate.

During routine sampling it was identified that ML02-01 results were anomalous. A connectivity test was completed to assess if the sampling port was hydraulically cross-connected to another location. This was conducted by conducting short pumping tests (see Appendix C) and it was determined that ML02-01 (15 ft bgs) was connected to ML02-02 (65 ft bgs). Samples from this location were collected but are not presented in the summary tables.

By early September drawdown in the extraction well was substantial and extraction rates had to be decreased to continue operation. The system was shut down on October 8, 2013 to complete

rehabilitation of EW01. Activities included mechanical and chemical rehabilitation of the extraction well. The system was re-started on November 13, 2013 and within about two weeks drawdown again was substantial.

The total volume of water recirculated over the pilot test period was 449,354 gallons. Volumes by month are shown below:

Month	Dates	Monthly Volume (GPM)	Cumulative Volume (GPM)
Month 1	6/24/13 - 7/24/13	93,210	93,210
Month 2	7/24/13 - 8/23/13	101,328	194,538
Month 3	8/23/13 - 9/23/13	110,871	305,409
Month 4	9/23/13 - 10/08/13	37,651	343,060
Month 5	11/13/13 - 11/21/13	33,352	376,412
Month 6	11/21/13 - 12/20/13	73,122	449,534

More information on the hydraulic data collected during operation is presented in Section 4.2 below.

4.1.1 Well Fouling and Rehabilitation

During the pilot study mechanical and chemical rehabilitation of EW01 was completed. The first step was mechanical and involved disconnecting the power to the EV and removing the packer and all well components in EW01. Then a licensed state driller used a combination of surging, purging, air lifting, and water jetting techniques to remove the silt from the bottom of EW01. Mechanical rehabilitation of EW01 occurred October 9th and 10th. No sediment was found in the bottom of EW01. Evidence of biological fouling was found on the pump and inside of the discharge piping. Based on these findings chemical treatment of the well was conducted. A standard operating procedure was developed to complete acid treatment of EW01 using Nu-Well 110 (granular acid) and Nu-Well 310 (bioacid dispersant that breaks down biofilm and disperses mineral salts). Both products are specifically designed for use in well rehabilitation and were used in accordance with the manufacturer's specifications (Johnson Screens, New Brighton Minnesota). Following treatment, EW01 was thoroughly pumped until the pH of the pumped water was within +/- 1 standard units of groundwater pH prior to treatment. Chemical rehabilitation was completed on November 13, 2013. Following mechanical and chemical rehabilitation of EW01 the well sustained 3 gpm for about 2 weeks. These observations confirm that increasing the extraction rate to enhance hydraulic gradient may not be feasible in this formation.

Injection well fouling was not observed via pressure increases, but comparisons of the point dilution tests from before and after donor addition indicate that reductions in hydraulic conductivity have occurred across the screened interval of IW02. Injection well pressures were

not likely observed due to groundwater short-circuiting to the more permeable shallower intervals.

4.2 Hydraulic Evaluation

Alluvial deposits beneath the pilot study area comprise a 3-layer fining downward sequence of stratified glacial sands and silts. The intermediate zone at approximately 38 to 78 ft bgs, which is the focus for this pilot test, is characterized by fine grained silty sands with hydraulic conductivities that range between 4 to 17 feet per day.

In-situ groundwater flow velocity prior to the pilot test, estimated from hydraulic testing in IW01 and IW02 and measured hydraulic gradient, was 0.01 to 0.14 feet per day. The order of magnitude range of values of in-situ groundwater flow velocity reflects variability in the input parameters (hydraulic conductivity and groundwater gradient) to the average linear velocity equation. Under pumped conditions, the horizontal groundwater gradient, in the EISB pilot study area was up to a value 0.03 ft/ft. This is one order of magnitude higher than the local hydraulic gradient under ambient conditions, which is a function of both the regional gradient and the influences from pumping on site. Using the pumped hydraulic gradient, and incorporating the range of observed and calculated hydraulic parameters, the estimated groundwater flow velocity under pumped conditions was 0.58 to 2.65 feet per day. Section 4.3 below presents the estimated groundwater flow velocity based on bromide tracer data arrival at the monitoring wells and these velocities are consistent with the 0.58 feet per day velocity range.

The low ambient hydraulic gradients in the intermediate zone along with the low groundwater flow velocity will limit the dispersion of amendments, extend the time needed to distribute electron donor or oxidant in the injection area and distribution of injected amendment(s) would be very limited without forced gradient applications.

4.2.1 Water Level Elevations and Gradient Measurements

Water table elevation measurements collected from May to Late November 2013 indicated an overall regional decrease (Figure C-1 in Appendix C) in the groundwater gradient. Within the pilot test area water table elevation measurements were made on a routine basis (Table 1) to monitor groundwater flow conditions. Table C-3 in Appendix C presents the manual water table elevation measurements collected during the pilot study. Pressure transducer outputs are also provided in Appendix C. The water table elevation declines recorded from wells in the in the pilot test area were consistent with the surrounding area and the decreases observed from June to late November were observed across the area. Towards the end of the recirculation period the regional water level in the intermediate aquifer started to increase. These changes are attributed to seasonality and not from recirculation in the pilot test wells.

Drawdown was observed in the extraction well (EW01) during operation and ranged from 11 to more than 45 feet. Increases in the water table, due to groundwater mounding, at the injection

well (IW02) ranged from 2.5 feet at early time to 3.0 feet in December 2013. The effect of injecting groundwater observed in adjacent injection wells IW01 and IW03, was approximately 3.5 and 2.5 inches, respectively.

Additional gradient evaluations for ML02 to ML04 were also completed (see Appendix C). The gradients at ML02 and ML04 were compared at several time points (Figure C-6 in Appendix C) and show that at early time, under non-recirculation conditions that groundwater flow was northwest (towards the site), then by December 2013 it was southeast (toward Pompton Lake). Under recirculation conditions the gradients were variable, but indicate that in the intermediate zone that groundwater was southeast towards EW01. The hydraulic gradients determined between wells ML02 and ML04 ranged from 0.003 to 0.03 ft/ft under pumped, recirculation, conditions.

For comparison with the ML well-based hydraulic gradients (which measure at discrete levels with short screen intervals), estimations of the hydraulic gradient from the fully screened wells were determined under pumping conditions and ranged from 0.1 to 0.4 feet/foot (ft/ft). These estimates were obtained by using water level measurements from multiple time points from the lower zone of both the injection well (IW02) and extraction well (EW01) under pumping conditions, which includes well loss in EW01 mounding in IW02, and therefore likely overestimate hydraulic gradients.

4.2.2 Point Dilution Test

Often the addition of amendments can change the aquifer characteristics (e.g., hydraulic conductivity) which, if substantial, can alter groundwater flow directions in the subsurface and impact remedy effectiveness. Previous work completed at the pilot study area collected information on the hydraulic conductivity and groundwater velocity of the intermediate aquifer. A point dilution test was completed in 2011 to assess the aquifer conditions at IW02. At the end of the pilot study another point dilution test as performed at IW02 so that a comparison to 2011 (pre-donor) and 2014 (post-donor) could be evaluated. Appendix D contains a summary of the two tests and the supporting information. Figure 5 presents the estimated hydraulic conductivity and velocity pre-EISB in 2011 and post-EISB in 2014. Reductions were substantial and are indicative of injection well fouling from donor addition. The changes are observed in both the shallow and the intermediate zones of IW02. These results indicate that as fouling of the lower section of the injection well occurred that some of the reinjected groundwater was likely short-circuiting to the shallow zone.

4.3 Bromide Tracer Evaluation

Potassium bromide was continuously amended to the re-injected groundwater from June 24th 2013 to August 16th, 2013. The target addition concentration was 100 mg/L as bromide. In total 100 Kg of potassium bromide was amended to groundwater during the study. A summary of the bromide tracer addition is provided in Appendix C. Samples were collected more frequently

than specified in the work plan (Geosyntec 2012) in order to increase the data density. Bromide detections at the various well locations are shown in Figure 6. The intent of the bromide tracer testing was to determine travel times between injection and extraction wells for the intermediate aquifer.

Results for the field analysis of bromide indicate that re-injected groundwater reached the target intermediate zone (nominally from 40 to 65 feet below ground surface) at ML02 after about 38 days and ML04 after about 60 days. Based on the bromide data collected the approximate travel times for injected groundwater to the monitoring locations and extraction well are as follows:

From IW02 to	Approximate groundwater velocity (ft. per day)
ML02	0.33
ML04	0.42
EW01	0.68
Average	0.47

In general bromide was not detected in the shallow zone at elevated concentrations, confirming that re-injected water was predominantly into the target intermediate zone. Bromide was detected in the intermediate zone at IW03 (the closest injection well) and IW01 at a maximum of 54 mg/L (August 20th) and 53 mg/L (September 5th), respectively. EW01 bromide concentrations peaked at 22 mg/L on September 5th 2013. Based on the observed bromide concentrations in the extraction well at the end of four months of operation, it appears the travel time of bromide is longer than anticipated. By October 2nd, bromide concentrations in the target intermediate zone continued to remain below 20 mg/L which indicates that the center of mass had passed through the system in September as shown in Figure 6.

4.4 Numerical Simulation

After two months of operation, and considering additional gradient information, the groundwater flow model was revisited. The non-pumping gradient was different than the original simulations and allowed groundwater to be captured from the on-site P&T wells. The groundwater flow model was reconfigured and additional evaluation conducted to assess whether sufficient groundwater from the injection well was being captured by the extraction well under pumped conditions (see Appendix E). These evaluations, as well as bromide tracer results, confirmed that, even with the measured hydraulic gradients (between wells ML02 and ML04 this ranged from 0.003 to 0.03 ft/ft under pumped, recirculation, conditions) the groundwater samples collected to assess EISB at ML02 and ML04 would be reflective of donor addition and donor was being delivered to this interval.

4.5 Performance Monitoring

Routine groundwater sampling (defined in the 128 IRM Pilot Study WorkPlan) was conducted to assess EISB performance. A summary of the field parameter and laboratory samples collected over the pilot study period is presented in Table 2. Table 3 summarizes the analytical methods selected for the parameter suite. Appendix F contains the analytical laboratory reports and a QA/QC summary for the samples submitted to the analytical laboratories.

Field Parameters

Table 4 provides a summary of the field parameter measurements (temperature, pH, specific conductance, oxidation reduction potential [ORP], and dissolved oxygen [DO]). At the start of recirculation redox conditions in the intermediate aquifer were slightly anaerobic, with the shallower locations more aerobic. Recirculation promoted mixing of the intermediate aquifer groundwater and this coupled with electron donor addition promoted reducing conditions.

Organic Carbon and Sulfate

Decreases in both oxidation reduction potential and total organic carbon (TOC) can provide evidence of biological activity. TOC results are provided in Table 4; concentrations ranged from below the method detection limit (0.5 mg/L) to 64 mg/L. The target TWA of lactate was 165 mg/L and this was not observed during the sampling events, indicating that degradation was occurring. Additionally, TOC increases were not substantial at the EW over the period of evaluation further indicating biodegradation of the lactate. Samples were collected on a monthly basis for anions. Sulfate concentrations decreased significantly within the target intermediate zone, which is an indicator that electron donor was being used for sulfate reduction. Decreases were more pronounced at ML02 versus ML04, specifically in ML02-05,-04,-03,-02 and -07; and ML04-05,-04-03-02. These observations are consistent with other studies of in-situ biodegradation that document reductive dechlorination can occur under sulfate reducing conditions.

Target VOCs and DHGs

Samples for VOCs and Dissolved Hydrocarbon Gases (DHGs) to assess degradation were collected as outlined in Table 2. Detailed performance monitoring of the pilot study was key to the interpretation of the EISB processes, and despite longer travel times (due to the reduced groundwater flow velocities) the sampling program frequency was not adjusted. Tabulated results for the VOC and DHG compounds are provided in Table 5. Figure 7 (a to g) presents the VOC trends over the pilot evaluation period. These plots present the data in $\mu\text{moles per liter}$; in this data format one μmole of PCE would generate one μmole of ethene or any other dechlorination intermediate (i.e., TCE, DCE, or VC). The Total VOC mass (PCE, TCE, DCE, and VC but not including ethene) in μmol for selected monitoring well locations (ML02 and ML4) are provided in Figure 8 and show trends in VOC mass destruction over the study period.

The focus of the pilot study was the intermediate zone. Trend plots of the VOCs from the groundwater samples collected from the fully screen wells is shown on Figure 7b. Samples were collected routinely from EW01 and over time the total mass of PCE decreased but there was very little change in other target VOCs and TOC. At baseline EW01 had a much lower initial PCE concentration but with extraction surrounding groundwater was captured and the concentration increased. The groundwater extracted from EW01 was injected to IW02. Samples were collected from the injection wells before recirculation began and after it was completed. Conditions at IW02 show little change over the pilot study. Conditions at IW01 and IW03 (located cross-gradient of IW02) wells indicate that IW03, which is about 15 feet away from IW02, was impacted by recirculation and biodegradation activities (i.e., decreases in PCE and TCE and increases in ethene). The effect of the pilot study was less noticeable at IW01 which is about 26 feet from IW02.

Figure 7d presents the VOC molar trends over the pilot study for the intermediate locations at ML02. Over the recirculation period PCE and TCE decreased in all intermediate locations and increases in lesser chlorinated compounds were also observed. Figure 8a presents the TVOC molar trends for the intermediate locations at ML02. The baseline total VOC mass was highest at ML02-02 (14.1 μmol) and lowest at ML02-04 (2.3 μmol). Groundwater extraction mixed the groundwater and this resulted in concentrations of VOCs decreasing at ML02-02 and increasing at ML02-04, ML02-03 and ML02-07. At ML02-04 PCE and TCE decreases began about one month after donor addition which corresponds to the bromide appearance at this location, and by the end of recirculation period the TCE and PCE had decreased to less than 0.01 μmol s and cis-1,2-DCE was decreasing and the TVOC molar mass began to decrease (Figure 8a). A similar response was seen at ML02-03 and slightly less of a response, but similar trend at ML02-02. The TVOC mass decreased during recirculation at ML02-07, the deepest location, but this was mostly due to decreases in PCE and TCE and further dechlorination was not observed. The concentrations of TOC did not change over the recirculation period indicating that donor was present.

Figure 7f presents the VOC molar trends over the pilot study for the intermediate locations at ML04. Lower TVOC mass was observed at baseline at ML04 than at ML02-02 and again with recirculation the higher concentrations from some zones increased the TVOC concentrations relative to baseline. The effect of electron donor addition at ML04 was noticeably muted compared to ML02. TOC concentrations at ML04 were lower than at ML02. PCE and TCE decreases were not observed at ML04-04 or ML04-07 and only consistently observed at ML04-03. Once recirculation began, PCE was not detected above the method detection limit at ML04-02 but decreases in TCE were observed at this location. Figure 8b presents the TVOC molar trends for the intermediate locations at ML04. TVOC increases observed are likely the result of mixing of groundwater through the treatment zone and decreases are not observed due to the extended travel times from IW02, bromide arrival to the intermediate zone at ML04 was approximately 68 days.

For the shallow interval, samples were collected to assess the conditions over time. Figure 7a presents the molar plots for the upper screened intervals of the IWs and EW. A sample from the upper screened interval at EW01 was not collected at the six month monitoring event because previously during well rehabilitation when the components were re-installed access to the upper screen became blocked. The only way to clear this blockage would have required removal of the packer and once the packer was removed a sample from EW01 Upper would not have been equivalent to the previous samples due to well mixing. Changes in VOC concentrations at IW01 Upper and IW03 Upper were minimal over the pilot study, with the exception of an increase in ethene at IW03 Upper. At IW02 Upper increases in DCE, VC and ethene were observed and small decreases in PCE and TCE were observed. These results indicate that mixing of the intermediate groundwater with the upper interval occurred over the pilot study period. In the shallow monitoring locations for ML02 (Figure 7c) the recirculation changes noted above, namely that at late time more injected water was likely short circuiting to the shallower intervals, is observed in the molar VOC changes. The increases in VOCs occurred first at ML02-5 (nominally 35 ft bgs) after about three months of donor addition (early October 2013 sampling event) and then ML02-06 (nominally 25 ft bgs) at the December sampling event. At ML04 only ML04-05 showed increases in VOCs in the later stages of the pilot test (November onward) that could be attributed to intermediate groundwater mixing with more shallow groundwater.

Methane is an indicator of biological activity. Addition of electron donor can promote methane generation and remove electron donor that is available for reductive dechlorination. Before the EISB pilot study began, methane was detected at low concentrations (i.e., less than 50 µg/L) in a few locations (Table 5) but after donor addition increases in methane, up to 3.1 mg/L were measured in groundwater samples. This confirms that biological activity has increased.

Chloride increases during the pilot can be an indicator of reductive dechlorination of the target VOCs. Increases of chloride in the intermediate aquifer exceeded, in general, those in the shallow aquifer, which supports that observation that dechlorination was occurring. The proximity of this pilot test to anthropogenic sources of chloride (i.e., road salt) is noted and it is recognized that all increases in chloride may not be from dechlorination. An example of this phenomenon is observed in ML04-01 where the shallowest location reported substantial increase in chloride for the final sampling event.

Molecular

Bioaugmentation was completed after the start of addition of electron donor. Twenty litres of KB-1[™] was injected into IW02 on August 2, 2013 to provide a microbial consortium capable of complete and rapid reductive dechlorination of chlorinated ethenes. Although historical data indicate that a native microbial community capable of dechlorinating PCE and TCE to ethene is present at the Site, the natural degradation process products (cis-1,2-DCE and VC) appear to have accumulated within the intermediate aquifer. While the native microbial community is expected to respond to stimulation alone (i.e., only electron donor addition), augmentation with a culture known to produce complete dechlorination can accelerate the process and make best use

of the time and effort of operating the study. Groundwater samples were collected at the beginning of the pilot test and at the end to assess the growth of known dechlorinating organisms. Table 5 presents results from the two sample events. Dechlorinating organisms increased between baseline and the end of the pilot study. Increases were more pronounced at ML02 over other locations.

4.6 Soil Gas

Samples were collected on a monthly basis from the soil gas probe. The soil gas probe is located about 8 feet from IW02 and 6 feet from ML02. For the first four sampling events the soil gas samples collected were relatively similar in both the VOC compounds present and magnitude of target VOCs. Then by November a substantial decrease in total VOCs was observed but there is no directly link to a specific event in the EISB treatment area that would have resulted in this change.

4.7 Waste Management

All investigation derived wastes will be handled and disposed of in accordance with the project-specific waste management plan (URS, 2008).

5. SUMMARY OF EISB PILOT STUDY

The objective of the EISB pilot study was to collect the data necessary to evaluate the effectiveness and implementability of EISB as a remedial technology for the intermediate zone of the aquifer. Overall the objectives of the pilot study were met. The results obtained provide sufficient information to assess the implementability and effectiveness of EISB at the site. The effectiveness criterion considers the degree to which the proposed action can attain the remedial action objectives and the extent to which the action provides sufficient long-term control to be protective of human and environmental receptors. For this study the effectiveness is demonstrated through understanding the hydrogeological condition under which the test was conducted, and that the operational metrics are adequate to support both the hydrogeological and biodegradation observations. The following sections summarize the effectiveness of EISB for the pilot study.

Summary of Hydrogeological Conditions:

- In-situ groundwater flow velocity prior to the pilot test, estimated from hydraulic testing in IW01 and IW02 and measured hydraulic gradient, was 0.01 to 0.14 feet per day. The order of magnitude range of values of in-situ groundwater flow velocity reflects variability in the input parameters (hydraulic conductivity and groundwater gradient) to the average linear velocity equation.
- Under pumped conditions, the horizontal groundwater gradient was up to a value 0.03 ft/ft. This is one order of magnitude higher than the local hydraulic gradient under ambient conditions, which is a function of both the regional gradient and the influences from pumping on site.
- Using the pumped hydraulic gradient, and incorporating the variability hydraulic parameters, the estimated groundwater flow velocity under pumped conditions was 0.58 to 2.6 feet per day.

Operational Highlights:

- The total volume of water recirculated over the pilot test period was 449,354 gallons. The low ambient hydraulic gradients in the intermediate zone along with the low groundwater flow velocity limited the distribution of amendments and extended the time needed to distribute electron donor in the injection area.
- Bromide was added to assess the arrival time of groundwater to the monitoring well locations. Results for the field analysis of bromide indicate that re-injected groundwater reached the target intermediate zone (nominally from 40 to 65 feet below ground surface) at ML02 after about 38 days and ML04 after about 60 days.

- Based on the observed bromide concentrations in the extraction well at the end of four months of operation, it appears the travel time of bromide is longer than anticipated.
- The results of the point dilution test indicated fouling of the lower section of the injection well occurred and as a result some of the reinjected groundwater was likely short-circuiting to the shallow zone.
- Extraction well efficiency was limited by both hydraulic conductivity of the formation and evidence of biological fouling (found on the pump and inside of the discharge piping). Well rehabilitation (mechanical and chemical treatments) was ineffective at returning the well to useful operation for more than a few weeks. These observations confirm that increasing the extraction rate to enhance hydraulic gradient may not be feasible in this formation.

Effectiveness of EISB to treat target VOCs:

- Addition of sodium lactate promoted: (i) reducing/anoxic conditions in the groundwater; (ii) sulfate-reduction at most ML locations in the intermediate aquifer; (iii) the growth of dechlorinating microbes; and (iv) the degradation of higher chlorinated compounds (PCE and TCE) at multiple locations in the study area. These observations are consistent with other studies of in-situ biodegradation. TOC levels did not typically exceed 100 mg/L in the pilot study area which would be indicative of rapid biodegradation of the donor occurred.
- PCE and TCE degradation was observed at several locations within the recirculation loop and at later stages decreases in cis-1,2-DCE was occurring at ML02.
- TVOC increases observed are likely the result of mixing of groundwater through the treatment zone. TVOC decreases due to biodegradation were not observed due to the extended travel times; for example from IW02, bromide arrival to the intermediate zone at ML04 was approximately 68 days.
- Before the EISB pilot study began, methane was detected at low concentrations (i.e., less than 50 µg/L) but after donor addition methane increased and was in mg/L concentrations in several groundwater samples, confirming that biological activity has increased.
- Dechlorinating organisms increased between baseline and the end of the pilot study. Increases were more pronounced at ML02 over other locations.

In summary, it appears that the pilot study demonstrated that the geochemistry of the system could be manipulated, to a limited extent, so as to promote biodegradation of site related constituents.

Implementability considers technical and administrative factors such as engineering and scientific feasibility of the technology; availability of services and resources required for

implementation; uncertainties associated with the construction, operation, and performance; and impacts on local community. The successful completion of the pilot generated data and information that can be used to assess the implementability of EISB in the intermediate aquifer in the vicinity of 128. Operating the pilot in an urban setting was challenging as there were access restrictions both through street and overhead lines and subsurface utilities. Construction of the system needed to take into account public road access and operation of the pilot required community oversight (police detail to safely re-direct traffic). This pilot did not treat all of the VOC mass in the intermediate aquifer so if this technology were to be applied it would need to be for longer than this current period of the study (i.e., 6 months). The following section presents two preliminary conceptual full scale designs for the 128 area.

6. CONCEPTUAL FULL SCALE EISB DESIGN FOR 128 AREA

Based on the information collected from previous site investigations, The Off-Site Groundwater Interim Remedial Measure (IRM) Characterization Report (Geosyntec, 2010b), the Hydraulic Testing Evaluation Summary Report for Well 128 Field Pilot Study / Interim Remedial Measure (Geosyntec 2011) and the recent EISB pilot study (this report), conceptual full-scale treatment options was considered as part of evaluating the implementability of the technology.

6.1 Selected Target Treatment Area for the Conceptual Design

To estimate the target treatment area two cross sections were constructed using recent results from groundwater samples. Figure 9a presents this data in the east-west direction, along Barbara Drive and Figure 9b present this data in the north-south direction, along Schuyler Avenue. The proposed target intermediate treatment zone is shown on both figures. This approximate treatment area is nominally 300 feet wide and 400 feet in length and can be referred to as the treatment area footprint (120,00 ft²). The average treatment thickness in this footprint is about 30 feet. Most remedy designs start with a known area of mass to treat but in this off-site area this is hampered by the existing infrastructure. Therefore any evaluation of conceptual full-scale configurations needs to be considered as preliminary design basis only. Additional delineation would be required to confirm areas for treatment. Any actual treatment area may not be as shown in Figure 9 and the area may change based on future data collected to further refine the treatment area. As the treatment area changes there would be similar linear changes in scope (e.g., if the area ends up being 50% smaller the number of wells and associated infrastructure to support the design would be decreased). For all scenarios the treatment goal for a remedy to be applied to this area would be the NJDEP GWIIA groundwater standard.

6.2 Treatment Approach

Based on the current understanding of the residual VOC mass present in lower conductivity layers, the general acceptance that amendment technologies need contact of the amendment with the VOC mass to achieve mass destruction. For the purpose of evaluating the implementability of this technology the approach of a single application across the entire plume area was not considered based on the data collected during the pilot study which indicated it was not feasible. An alternate approach is to establish emplaced treatment zones that can be replenished with electron donor. The following subsections provide an overview of two full-scale conceptual EISB designs and basic components of each design for the 128 area.

6.3 Electron Donor

The EISB pilot used a labile (easily consumed) electron donor. This was suitable for the pilot test, given the 180 day permit by rule restriction. Low solubility electron donors (e.g., canola oil, soybean oil and oleate) are often preferred over more soluble electron donors (e.g., molasses, methanol, ethanol, lactate, benzoate and acetate) because they break down much more slowly

and act as a stationary, long-lasting source of electron donor. These types of donors remain in place after injection and do not tend to migrate with the groundwater (as occurs for soluble electron donors). Furthermore, because the oils are less soluble, the concentration of dissolved electron donor remains relatively consistent over time. Information collected to date at other sites and reported by others (ESTCP, 2010) indicates that edible oil commonly lasts 2 to 3 years and can last as long as 5 years. Even after the oil has been utilized, the biomass that develops breaks down and continues to provide an ongoing electron donor source. The low solubility oils are a more concentrated form of organic carbon, which can lead to methane production in the subsurface. Therefore, it is important to consider electron donor longevity as well as total volume of electron donor required and potential for methane production when selecting an appropriate electron donor for use in situ. A single application of a large dose of electron donor is not a suitable approach for this design, as this may generate methane and a single application is unlikely to achieve NJDEP GWIIA standards (based on the degradation rates observed in the EISB pilot study). The conceptual design should include capacity for re-application of electron donor.

6.4 Conceptual Design

The basic design selected for the 128 area evaluation is the addition of electron donor to promote an emplaced treatment zone. Direct push injection is one approach for delivering amendments. With direct push injection a large portion of the target treatment area can receive electron donor and a large percentage of the pore volume replaced with donor amended groundwater. Both the lithology and the existing infrastructure do not support this approach for the 128 design concept. Therefore, permanent well completions will be a required design element. In this approach each well is amended with electron donor and then this donor promotes reducing conditions that create conditions amenable for in situ degradation of the target VOCs to ethene. Two general conceptual designs were considered, (i) a series of injection well rows that form biotreatment zones that rely on the natural groundwater flow to distribute donor throughout the target zone and (ii) a series of recirculation loops that increase the groundwater flow resulting in donor being distributed in the target treatment area similar to the pilot. The primary differences in the configurations are summarized below.

Proposed Design	Differences
Injection Wells	Longer duration to recirculation loop design (relies mainly

Proposed Design	Differences
	on natural gradient) Treatment is dependent on ambient groundwater flow Less infrastructure Possibly less biofouling compared to recirculation design
Recirculation Loops	Shorter duration than injection wells (can accelerate gradient) Better donor distribution Increased hydraulic capture relative to ambient conditions More wells, more infrastructure Possibly more fouling due to active pumping

Figure 10 presents a conceptual schematic for the injection wells design. Figure 11 presents the conceptual schematic for the recirculation loop design. The following sections provide supporting data for the two options and the specific design elements. For both designs there are some key technical aspects to consider –these include the achievable radius of injection, treatment duration biofouling control and existing infrastructure.

6.4.1 Injection Well Design

In this conceptual design a series of injection wells is installed perpendicular to groundwater flow direction. Electron donor is injected into each injection well to create a target radius of influence to generate a continuous emplaced zone of electron donor. In this design a number of injection wells would be amended with EVO over time. Table 7a provides an overview of the key design details for the full scale implementation of EISB at the Site with the injection well design, including the target radius of influence, target donor injection quantities, and estimated donor injection rates. The EISB pilot test data results were used for the design basis where appropriate. The distance between injection wells is based on the pilot study observations (i.e., electron donor was observed at IW03, which was about 15 feet from IW02). The target injection volume for each injection well is about 35,000 gal. In this configuration it is assumed that a treated water supply is the source of the water for injection.

With injection wells, after the donor is added the ambient groundwater gradient will be the mechanism for mixing and treatment of the donor with the residual VOC mass. The observed minimum and maximum of groundwater velocities was considered but the minimum (0.01 ft/day) generates an excessive number of injection rows and the maximum (0.14 ft/day) too few rows to have confidence that the GWIIA standard would be attained. Using professional judgment and the aim to have remedy completion within 10 years an ambient groundwater velocity of 0.015 ft/day was assumed. This design would have 7 rows of injection wells and a total of 70 injection wells.

In this design, the first application of electron donor to all 70 wells would nominally treat 50,000 ft² (40 %) of the target treatment area. The remaining area between the injection wells would be

treated relying on ambient groundwater flow, and subsequent applications of the donor. The distance between injection wells is nominally estimated to be 60 feet. Variability in the hydraulic gradient (as observed before and after the pilot) may limit the effective distribution of donor to the target zone. This could be a key factor limiting the effectiveness of this design.

Based on data from other sites (ESTCP 2010) and the data obtained from the pilot test the emplaced donor may last up to two years. Given the groundwater velocities and the amount of plume treated with the initial application complete treatment is not expected from a single application and up to two additional (total of 3) applications of electron donor should be considered as part of the design. The total duration would be up to 10 years.

Given the rapid onset of biofouling observed in the pilot test the full scale conceptual design should be designed to accommodate or address well rehabilitation. If the injection duration is more than a month addition of a biofouling control agent (e.g., chlorine dioxide) should be evaluated and the well configuration should be designed to allow for ease of access.

The objective of the injection well design is to have emplaced donor across the width of the target treatment zone. As shown in Figure 10 there are many existing structures. The effectiveness of the biobarrier will be reduced if there are gaps where injection wells cannot be placed. Given the injection volume required to achieve the ROI the configuration would likely include vaults and underground conveyance piping. The treatment plant (comprised of tanks and pumps to mix donor with water) would mix the electron donor and then transport this to the individual injection wells.

6.4.2 Recirculation Loop Design

In this conceptual design a series of extraction well and injection well pairs are installed to create recirculation loops similar to the pilot. Groundwater is extracted from the formation, amended with electron donor, and re-injected to generate a continuous emplaced zone of electron donor. There is a range of operating possibilities with this design. The challenges of continuous extraction that were observed in the pilot (e.g., excessive drawdown, fouling) could be reduced through intermittent operation of the extraction wells and intermittent donor addition. After the donor is added groundwater recirculation could continue to increase the gradient. Based on data from the EISB pilot study two pore volume exchanges were not enough to achieve GWIIA standards so in the conceptual design ten pore volume exchanges were used to develop the duration and the loop distances. The first application of electron donor, in this configuration would nominally treat 20,000 ft² (17%) of the target treatment area. The remaining area between the injection wells would be treated through ambient groundwater flow, and subsequent applications of the donor. Table 7b provides an overview of the key design details for the full scale implementation of this design for the target treatment area. With active recirculation manipulation of injection and extraction zones can increase hydraulic control, and hence, distribution of donor.

The injection period would focus on establishing an area of electron donor around the injection wells. Then the system would be shut down and degradation would occur under ambient conditions. This would reduce the pumping time and potentially reduce biofouling of the extraction wells but this would increase the total treatment time. Table 7b provides an overview of the key design details for the full scale implementation of EISB at the Site with the recirculation, including the target treatment area, depth and layout, target injection quantities, and estimated donor injection rates.

The EISB pilot test amended electron donor and found that even after several months of recirculation and donor addition that the biomass and degradation rates had not reached a level to result in decreases in TVOC mass throughout the treatment area. Therefore the conceptual design should take this into account and treatment times should be conservative so that the GWIIA groundwater standards can be achieved. Electron donor will need to be added periodically (at least annually). There are more wells in this option but the treatment time is expected to be shorter than the injection wells option as more groundwater mixing and recirculation occurs.

Given the rapid onset of biofouling observed in the pilot test the full scale conceptual design should be designed to accommodate or address well rehabilitation for both extraction and injection wells. Depending on the selected configuration this could be a constant addition of a biofouling control agent (e.g., chlorine dioxide) or a well configuration that allows for easy access for rehabilitation.

For the recirculation option power would be needed at each extraction well vault to power the pumps. All electrical would need to be placed in the subsurface. If large areas of the footprint were inaccessible due to infrastructure limitations the effectiveness of the overall remedy will be reduced.

6.5 Implementability of Conceptual Designs

Both conceptual designs were developed using the data and lessons learned from the EISB pilot study. Degradation of the target VOC compounds was occurring naturally, even before electron donor was added, with the presence of ethene and methane and VOC degradation intermediates (i.e., cis-1,2-DCE and vinyl chloride). The effectiveness of EISB as a technology was verified from the EISB pilot study. Nevertheless there are several implementation challenges that the proposed conceptual designs will need to address, including:

- Access – selecting areas that are accessible so a sufficient number of wells can be installed to create the treatment zones.
- Contact Time – for GWIIA standards to be achieved the donor needs to be in contact with the target compounds and the intermediate aquifer zone is a lower hydraulic conductivity zone which limits the ability to distribute donor.

- Achievable Radius of Injection may be variable resulting in incomplete distribution of donor.
- Existing Infrastructure – both designs require vaults and significant installations of piping to effectively implement the design. This may not be feasible given the existing above ground and below ground infrastructure.
- Treatment Duration – there is not an injection approach that would allow a one time event to achieve GWIIA standards, therefore wells are required for multiple injection events.
- Biofouling Control- Biofouling control agents are not favorable for biodegradation of target compounds. Simply adding biofouling control to the design may alter degradation rates and extend treatment times.

Table 8 provides an evaluation of these design elements for each of the proposed conceptual designs.

7. SUMMARY AND CONCLUSIONS

In considering the effectiveness of EISB, data collected from bromide addition, donor addition and the hydraulic characteristics of the aquifer were used. Based on the observations made during the completion of this pilot study, EISB has been demonstrated that the groundwater environment could be changed to promote the dechlorination of specific constituents potentially to a level below the established remedial action objectives.

The implementability of EISB in the 128 area was also assessed as part of this study by developing two implementation scenarios typically used with the technology. This evaluation identified significant technical challenges with respect to application of this technology in the urban setting that is present in the target treatment area. Both conceptual designs would require significant access to private property, require more than one addition of electron donor and take an extended period of time to reach the NJDEP GWIIA treatment objectives.

Based on the information generated during the pilot study and subsequent evaluations, it does not appear that EISB is a technology to be carried forward as a potential remedy for the proposed area.

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TABLES

**TABLE 1
OPERATIONAL SUMMARY - EISB PILOT STUDY
DuPont Pompton Lakes Works,
Pompton Lakes, New Jersey**

Date	Task	Activity
6, 7 and 13 May-13	Installation of Soil Gas Probe and Packer Installation	Installation of SGP-01 and Installation of packers in IW03 and IW01. Reinflation of packers on 13 May 2013
20-May-13	System Shakedown	Leak test, confirm components operating at intended
21-Jun-13	Water Level Measurements	Deploy levelloggers in 128-S, 128-I, IW01-Lower, IW03-Lower, IW02-Lower, EW01-Lower
24-Jun-13	Recirculation	Recirculation system started
	Flow Rate Adjustment	Recirculation at 3 GPM
	Amendments	Begin injecting potassium bromide tracer target at 100 mg/L
	Water Level Measurements	128-S, 128-I, IW01, IW02, IW03, ML02, ML04, EW01
	Water Level Measurements	EW01, ML04
25-Jun-13	O&M	Weekly inspection, filter change out, refill EW-01 and IW03 packer.
	Water Level Measurements	EW01, ML02, ML04
26-Jun-13	O&M	Daily inspection
	Water Level Measurements	EW01, IW03, ML02, ML04
27-Jun-13	O&M	Daily inspection
	Water Level Measurements	IW01, ML02, ML04
28-Jun-13	O&M	Daily inspection
	Water Level Measurements	IW02, IW03, ML04, EW01
	Water Level Measurements	IW03, ML04,
1-Jul-13	O&M	Daily inspection, filter change out, EW01 leak detection and high pressure alarm. Restart system.
	Water Level Measurements	EW01
2-Jul-13	O&M	Daily inspection, refill potassium bromide tanks
	Water Level Measurements	ML02, ML04
	Water Level Measurements	ML02, ML04
3-Jul-13	O&M	Daily inspection
	Water Level Measurements	IW01, IW03
	Water Level Measurements	EW-01, IW01, IW03, ML02, ML04
4-Jul-13	O&M	Daily inspection, refill potassium bromide tanks
	O&M	Daily inspection, refill potassium bromide tanks
8-Jul-13	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	Water Level Measurements	IW01, IW03, ML02, ML04
	O&M	Weekly inspection, refill IW03 packer
9-Jul-13	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	O&M	Weekly inspection, refill IW03 packer
10-Jul-13	Water Level Measurements	IW01, IW03, ML02, ML04
	Water Level Measurements	IW01, IW03, ML02, ML04
	O&M	Daily inspection
11-Jul-13	O&M	Daily inspection
12-Jul-13	O&M	Daily inspection
	Amendments	Begin injecting sodium lactate once a day at a target time weighted average of 165 mg/L.
	Water Level Measurements	ML02, ML04
	Water Level Measurements	EW01, ML02, ML04
16-Jul-13	O&M	Daily inspection
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
17-Jul-13	O&M	Weekly inspection
	O&M	Daily inspection
18-Jul-13	O&M	Daily inspection, refill potassium bromide tanks
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
19-Jul-13	O&M	Daily inspection, refill sodium lactate tanks
	Water Level Measurements	128-S, 128-I, IW01, IW02, IW03, ML02, ML04, EW01
22-Jul-13	O&M	Daily inspection, EW01 high pressure alarm. Change filter. Restart system.
23-Jul-13	O&M	Weekly inspection, EW01 high pressure alarm. Restart system.
	Water Level Measurements	128-S, 128-I, IW01, IW02, IW03, ML02, ML04, EW01
24-Jul-13	O&M	Daily inspection, EW01 high pressure alarm, restart system. Refill EW01 packer and potassium bromide tanks.
	O&M	Daily inspection, EW01 high pressure alarm, restart system. Refill EW01 packer and potassium bromide tanks.
25-Jul-13	O&M	Daily inspection
	Water Level Measurements	ML02, ML04
26-Jul-13	O&M	Daily inspection
	Water Level Measurements	IW01, IW02, IW03, ML02, ML04, EW01
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
29-Jul-13	O&M	Daily inspection, refill potassium bromide tanks
	Water Level Measurements	128-S, 128-I, IW01, IW02, IW03, ML02, ML04, EW01
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	O&M	Weekly inspection, high pressure alarm, restart system.

**TABLE 1
OPERATIONAL SUMMARY - EISB PILOT STUDY
DuPont Pompton Lakes Works,
Pompton Lakes, New Jersey**

Date	Task	Activity
30-Jul-13	O&M	Daily inspection, refill lactate tanks
31-Jul-13	Water Level Measurements	ML02, ML04
	Water Level Measurements	ML02, ML04
1-Aug-13	O&M	Daily inspection, refill potassium bromide tanks
	Water Level Measurements	ML02, ML04
2-Aug-13	O&M	Daily inspection
	Recirculation	Recirculation system shutdown for bioaugmentation
	Amendments	Inject 20 L of KB-1®
5-Aug-13	Water Level Measurements	EW01, ML02
	O&M	Daily inspection, bioaugmentation, shut system down
6-Aug-13	Recirculation	Recirculation system startup after bioaugmentation
	O&M	Daily inspection, high pressure alarm. Restart system, refill potassium bromide tanks
7-Aug-13	Water Level Measurements	128-S, 128-I, IW01, IW02, IW03, ML02, ML04, EW01
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	O&M	Weekly inspection
8-Aug-13	O&M	Daily inspection
8-Aug-13	Water Level Measurements	128-S, 128-I, IW01, IW02, IW03, ML02, ML04, EW01
	O&M	Daily inspection, refill potassium bromide and sodium lactate tanks
9-Aug-13	O&M	Daily inspection, refill potassium bromide tanks
12-Aug-13	O&M	Daily inspection
13-Aug-13	O&M	Daily inspection, refill potassium bromide tanks
14-Aug-13	Water Level Measurements	ML02
	O&M	Weekly inspection, EW01 leak detection alarm, restart system
15-Aug-13	Water Level Measurements	ML04
	Water Level Measurements	EW01
	O&M	Daily inspection, refill EW01 packer
16-Aug-13	Amendments	Turn off potassium bromide injections
	Water Level Measurements	128-S, 128-I, IW01, IW03, ML02, ML04
	O&M	Daily inspection, close potassium bromide amendment valves and turn off potassium bromide pump.
19-Aug-13	O&M	Daily inspection
20-Aug-13	Water Level Measurements	128-S, 128-I, IW01, IW02, IW03, ML02, ML04
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	O&M	Weekly inspection
21-Aug-13	O&M	Daily inspection
22-Aug-13	Water Level Measurements	IW01, IW02, IW03
	O&M	Daily inspection, refill sodium lactate tanks
23-Aug-13	O&M	Daily inspection
26-Aug-13	O&M	Daily inspection
27-Aug-13	Water Level Measurements	ML02, ML04
	Water Level Measurements	ML04, ML02
	O&M	Weekly inspection
28-Aug-13	Water Level Measurements	IW01, IW03
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	O&M	Daily inspection
29-Aug-13	Water Level Measurements	128-S, 128-I
	O&M	Daily inspection
30-Aug-13	Water Level Measurements	EW01
	O&M	Daily inspection
3-Sep-13	O&M	Daily inspection, refill sodium lactate tanks
4-Sep-13	O&M	Daily inspection, refill sodium lactate tanks
5-Sep-13	Water Level Measurements	128-S, 128-I, IW01, IW03, ML02, ML04
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	O&M	Weekly inspection
6-Sep-13	O&M	Daily inspection, refill sodium lactate tanks
9-Sep-13	O&M	Daily inspection
10-Sep-13	Flow Rate Adjustment	Recirculation at 2 GPM
	O&M	Daily inspection, refill sodium lactate tanks, reduce extraction rate to 2.0 GPM
11-Sep-13	O&M	Daily inspection

**TABLE 1
OPERATIONAL SUMMARY - EISB PILOT STUDY
DuPont Pompton Lakes Works,
Pompton Lakes, New Jersey**

Date	Task	Activity
12-Sep-13	Water Level Measurements	ML02, ML04
	Water Level Measurements	ML02
	O&M	Daily inspection
13-Sep-13	Water Level Measurements	IW01, IW03, ML04
	Water Level Measurements	EW01, IW01, IW03, ML04
	O&M	Weekly inspection
16-Sep-13	Water Level Measurements	128-S, 128-I
	O&M	Daily inspection
17-Sep-13	O&M	Daily inspection
18-Sep-13	O&M	Daily inspection
19-Sep-13	Water Level Measurements	128-S, 128-I, IW01, IW03, ML02, ML04
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	O&M	Weekly inspection, refilled EW01 packer
20-Sep-13	O&M	Daily inspection
23-Sep-13	O&M	Daily inspection
24-Sep-13	Water Level Measurements	ML02, ML04
	Water Level Measurements	ML02, ML04
	O&M	Daily inspection
25-Sep-13	Water Level Measurements	IW01, IW03
	Water Level Measurements	EW01, IW01, IW03, ML04
	O&M	Daily inspection, refilled sodium lactate tanks
26-Sep-13	Water Level Measurements	ML02
	O&M	Daily inspection
27-Sep-13	O&M	Daily inspection, change out filter
30-Sep-13	O&M	Daily inspection
1-Oct-13	O&M	Daily inspection
2-Oct-13	Water Level Measurements	128-S, 128-I, IW01, IW03, ML02, ML04
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	O&M	Weekly inspection, refill sodium lactate tanks
3-Oct-13	O&M	Daily inspection, IW02 leak detection alarm, system reset
4-Oct-13	O&M	Daily inspection, refill sodium lactate tanks
7-Oct-13	O&M	Daily inspection
8-Oct-13	Recirculation	Recirculation system shutdown rehabilitation
	O&M	Daily inspection, shut system down for rehabilitation, de-energize system, disconnect wiring from control panel to EW01
9-10 Oct-13	Rehabilitation	Mechanical rehabilitation
16-Oct-13	Water Level Measurements	128-S, 128-I, IW01, IW02, IW03, ML02, ML04, EW01
4-13 Nov-13	Rehabilitation	Chemical rehabilitation
13-Nov-13	Recirculation	Recirculation system startup after rehabilitation
	Flow Rate Adjustment	Recirculation at 3 GPM
	O&M	Turn recirculation system back on, set flow rate to 3 GPM, daily inspection
14-Nov-13	O&M	Daily inspection
15-Nov-13	O&M	Daily inspection, refill EW01 packer
18-Nov-13	Water Level Measurements	ML02, ML04
	O&M	Daily inspection
19-Nov-13	Water Level Measurements	128-I, 128-S, IW01, IW03
	O&M	Weekly inspection
20-Nov-13	Water Level Measurements	128-I, 128-S
	O&M	Daily inspection, refill sodium lactate tanks, refill EW01 packer
21-Nov-13	O&M	Daily inspection
22-Nov-13	O&M	Daily inspection
25-Nov-13	O&M	Daily inspection
26-Nov-13	Water Level Measurements	128-S, 128-I, IW01, IW03, ML02, ML04
	O&M	Weekly inspection, change out filter
27-Nov-13	Flow Rate Adjustment	Recirculation at 2 GPM
	O&M	Daily inspection, EW01 leak detection, reset system
2-Dec-13	O&M	Daily inspection
3-Dec-13	O&M	Daily inspection
4-Dec-13	Water Level Measurements	128-S, 128-I, IW01, IW03, ML02, ML04
	O&M	Weekly inspection, refill IW02 packer, refill sodium lactate tanks
5-Dec-13	O&M	Daily inspection
6-Dec-13	O&M	Daily inspection
9-Dec-13	O&M	Daily inspection
10-Dec-13	O&M	Daily inspection, system off no alarms, restart system
11-Dec-13	Water Level Measurements	128-S, 128-I, IW01, IW03, ML02, ML04
	O&M	Weekly inspection, refill sodium lactate

TABLE 1
OPERATIONAL SUMMARY - EISB PILOT STUDY
DuPont Pompton Lakes Works,
Pompton Lakes, New Jersey

Date	Task	Activity
12-Dec-13	O&M	Daily inspection
13-Dec-13	O&M	Daily inspection
16-Dec-13	O&M	Daily inspection
17-Dec-13	O&M	Daily inspection, filter change out
18-Dec-13	Water Level Measurements	ML02, ML04
	O&M	Daily inspection
19-Dec-13	O&M	Daily inspection
20-Dec-13	Recirculation	Recirculation system shutdown
	O&M	Turn off recirculation system
23-Dec-13	Water Level Measurements	128-S, 128-I, IW01, IW03, ML02, ML04
	O&M	Daily inspection, loosen filter housing to prevent vacuum in system
13-Jan-14	Water Level Measurements	ML02, ML04
15-Jan-14	Water Level Measurements	128-S, 128-I, IW01, IW03

Notes:

Inspections include flow rate adjustments, valve position adjustments, flow rate checks, pressure checks and lactate injections.

TABLE 3
SUMMARY OF FIELD AND LABORATORY PARAMETERS- EISB PILOT STUDY
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

Parameter	Sample Matrix	Analytical Method	Method Number*	Analytical Laboratory	Detection Limit	Sample Container	Sample Volume	Preservative	Holding Time
Field Parameters (pH, DO, ORP, electrical conductivity, temperature, turbidity, groundwater elevation)	water	Ion Specific Electrode	Field	NA	Varies	NA	NA	NA	NA
Volatile Organic Compounds	water	GC/MS	8260B	Lancaster	0.1 to 1.0 µg/L	3 x 40 mL VOA	vials filled completely, no headspace or bubbles	HCl, cool to 4°C	14 days
Dissolved Hydrocarbon Gases (ethane, ethene, methane)	water	GC/ECD or FID	RSK-175	Lancaster	1 to 5 µg/L	2 x 40 mL VOA	vials filled completely, no headspace or bubbles	HCl, cool to 4°C	14 days
Inorganic Anions (chloride, sulfate)	water	Ion Chromatography	300.0	Lancaster	0.11 to 0.5 mg/L	500 mL plastic or glass	bottle filled to neck	non-preserved, cool to 4°C	28 days
Total Organic Carbon	water	Combustion or Oxidation	9060A	Lancaster	1 mg/L	4 x 125 mL amber glass	bottle filled to neck	H ₃ PO ₄ to pH<2, cool to 4°C	28 days
<i>Dehalococcoides ethenogenes</i>	water	Gene-Trac VC Assay (vcrA)	NA	SiREM	NA	1 L plastic	bottle filled to neck	non-preserved, cool to 4°C	14 days

Notes:

* - United States Environmental Protection Agency Method Number, unless otherwise indicated

°C - degrees Celsius

DO - dissolved oxygen

ECD - electron capture detector

FID - flame ionization detector

GC - gas chromatography

H₃PO₄ - phosphoric acid

HCl - hydrochloric acid

L - liter

Lancaster - Lancaster Laboratories, Lancaster, Pennsylvania

µg/L - micrograms per liter

mg/L - milligrams per liter

mL - milliliter

MS - mass spectrometry

NA - not applicable

ORP - oxidation reduction potential

vcrA - vinyl chloride reductase assay

VOA - volatile organic analysis

TABLE 4
FIELD PARAMETER RESULTS -EISB PILOT STUDY
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

Well Identifier	Well Screen Interval (ft bgs)	Date Sampled	Time	Flow Rate (ml/m)	Temperature (°C)	pH	Conductivity (µs)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Volume Purged (gal)	Water Level (ft btoc)	Comments
128	6.24-26.24	01-May-13	14:02	200	13.2	6.61	0.86	213	6.9	0.00	4.0	9.92	Slightly turbid
		15-Jan-14	14:50	170	12.8	7.07	2.48	116	4.2	2.80	2.6	12.78	
128-I	61.36-71.36	02-May-13	11:45	150	14.9	9.29	0.93	-108	0.7	0.00	5.0	10.20	Slightly tan-brown/clear
		15-Jan-14	13:41	200	12.8	9.12	1.06	-204	1.7	0.00	2.0	12.12	
128-D	125.2-145.2	02-May-13	15:35	140	16.3	8.85	0.30	-246	0.8	0.60	3.5	12.54	Sulfur/degradation odor
		16-Jan-14	10:35	210	12.0	8.22	0.30	-301	0.8	0.60	5.0	--	
EW-01-Upper	21.60 - 45.92	16-May-13	16:09	375	15.3	7.65	0.45	-92	0.8	0.00	7.0	9.50	Clear, No Odor
		17-Jul-13	15:00	200	19.6	7.57	0.39	200	0.4	1.37	2.1	--	Clear, No Odor
		02-Aug-13	10:25	200	17.3	7.33	0.42	-2	1.6	0.00	3.0	7.33	Clear, No Odor
		15-Aug-13	11:15	250	17.4	7.58	0.44	40	0.5	0.40	3.0	9.25	Clear, No Odor
		28-Aug-13	10:30	200	18.6	7.39	0.42	50	0.9	0.00	2.5	--	Clear, No Odor
		13-Sep-13	11:05	200	17.1	7.56	0.45	-8	0.8	0.00	3.5	--	Clear, No Odor
		25-Sep-13	10:20	200	16.0	8.15	0.42	3	0.5	0.00	3.5	--	Clear, No Odor
		17-Jul-13	10:08	375	19.7	8.97	0.92	239	1.6	1.52	1.6	--	Clear, No Odor
EW-01-Lower	50.69 - 75.00	01-Aug-13	16:30	200	17.2	9.00	0.77	-118	0.9	0.00	2.0	--	
		15-Aug-13	9:50	300	15.9	8.98	0.84	-61	0.4	0.50	3.0	--	Clear, No Odor
		28-Aug-13	11:40	300	16.8	8.82	0.82	-173	0.3	0.00	5.0	--	Clear, No Odor
		13-Sep-13	9:30	250	15.8	8.84	0.93	-141	1.2	0.00	3.0	--	Goldish brown, No Odor
		25-Sep-13	12:05	200	14.5	9.38	0.90	-49	0.4	0.00	3.8	--	
		19-Nov-13	12:05	350	13.1	8.99	0.93	-129	0.8	0.00	4.2	--	
		19-Dec-13	9:50	475	14.4	8.89	0.98	-19	0.3	0.00	9.4	--	Gold-tan, No Odor
		14-Jan-14	12:25	450	14.8	8.89	1.11	-144	1.3	2.80	9.5	--	Brown-Dark brown, gold, slight slate, musty hay
IW-01-Upper	19.90-44.90	14-May-13	12:30	275	15.4	7.94	0.45	73	0.7	2.80	7.0	9.64	Clear, No Odor
		16-Jan-14	10:25	325	13.0	8.34	0.51	61	1.4	0.00	5.7	--	Clear, no odor
IW-01-Lower	49.70-74.20	14-May-13	16:31	360	15.1	8.57	0.81	8	0.7	4.50	10.7	9.73	Clear, No Odor
		13-Jan-14	14:40	360	13.6	8.54	1.26	-252	0.6	0.60	3.4	--	
IW-02-Upper	21.60-45.92	04-Jun-13	12:33	360	16.7	7.60	0.35	-81	1.5	3.40	5.7	8.38	Clear, No Odor
		13-Jan-14	12:25	280	13.3	8.80	1.07	-154	0.6	9.90	3.2	--	Brown, no odor
IW-02-Lower	50.69-75.00	15-May-13	15:00	200	16.0	8.87	0.91	-118	0.9	0.50	2.5	9.22	Slightly turbid/gray
		14-Jan-14	10:01	320	13.3	8.70	1.12	-259	0.6	4.40	3.0	--	Brown with black media, no odor
IW-03-Upper	21.10-45.42	15-May-13	12:20	350	15.1	7.29	0.53	117	1.2	1.00	6.0	9.62	Clear, No Odor
		13-Jan-14	13:25	350	14.0	7.76	0.51	-31	1.3	0.00	4.8	--	
IW-03-Lower	50.19-75.50	16-May-13	12:22	370	16.3	9.03	0.98	-55	0.8	1.00	12.5	9.62	Slight tan/yellow
		13-Jan-14	14:55	300	13.8	8.54	1.02	-226	1.1	0.00	5.5	--	Slight-gold-brown, odor
ML02-1*	14.42-14.92	14-May-13	10:00	200	15.0	6.85	0.31	109	1.5	0.40	2.5	9.70	Clear, No Odor
		31-Jul-13	12:10	240	17.8	8.93	0.42	-133	1.0	0.00	4.0	--	Clear, No Odor
		27-Aug-13	10:10	190	18.1	6.94	0.39	-151	0.7	0.00	2.1	--	Clear, very slight sulfur odor
		18-Nov-13	11:25	250	16.6	6.79	0.78	-163	2.1	0.00	2.5	--	Clear, No Odor
		18-Dec-13	9:35	150	11.5	8.39	0.89	-191	1.4	0.00	1.7	--	Clear, No Odor
		13-Jan-14	11:15	140	11.2	9.03	0.53	-203	0.6	1.90	1.7	--	

**TABLE 4
FIELD PARAMETER RESULTS -EISB PILOT STUDY
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey**

Well Identifier	Well Screen Interval (ft bgs)	Date Sampled	Time	Flow Rate (ml/m)	Temperature (°C)	pH	Conductivity (µs)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Volume Purged (gal)	Water Level (ft btoc)	Comments
ML02-6	24.39-24.89	14-May-13	11:28	200	15.7	7.77	0.40	-5	0.8	0.50	4.0	9.69	Light brown/turbid
		31-Jul-13	13:35	180	17.3	9.63	0.38	-97	0.7	0.00	3.0	--	Very clear, no odor.
		27-Aug-13	11:10	175	17.1	7.71	0.39	-82	0.5	0.00	2.2	--	Clear, no odor.
		24-Sep-13	10:35	200	15.5	9.00	0.38	-31	0.6	0.00	2.5	--	Clear, no odor.
		18-Nov-13	12:05	250	15.5	7.55	0.49	-96	1.8	0.00	1.9	--	Clear, no odor.
		18-Dec-13	10:35	190	11.9	7.80	0.76	-36	1.4	0.00	3.2	--	Clear, no odor.
		14-Jan-14	10:05	195	13.2	7.61	0.83	-33	1.6	0.90	5.0	--	Clear, no odor
ML02-5	34.36-34.86	14-May-13	12:45	200	16.3	8.35	0.37	-106	0.7	3.00	2.5	9.71	Slightly brown, Slightly turbid
		17-Jul-13	11:00	200	17.3	8.28	0.35	-107	0.3	3.41	3.0	8.23	Slightly turbid, gray
		31-Jul-13	15:25	180	18.2	10.02	0.36	-170	0.6	0.00	2.4	--	Clear, No Odor
		14-Aug-13	10:25	190	17.1	8.10	0.36	-72	0.7	3.50	3.0	--	Clear, very slight sulfur degradation odor
		27-Aug-13	12:25	200	17.3	8.04	0.37	-166	0.5	0.00	2.4	3.37	Clear, No Odor
		12-Sep-13	9:35	160	20.7	7.35	0.71	-160	1.1	0.00	1.4	--	Clear, No Odor
		24-Sep-13	11:15	200	15.3	7.98	1.10	-143	0.6	0.00	2.5	--	Slight pale yellow, no odor
		18-Nov-13	11:15	250	15.8	7.42	0.55	-133	1.8	0.00	2.0	--	Pale amber, no odor
		18-Dec-13	11:35	195	11.6	7.69	1.08	-160	0.8	0.00	2.2	--	Clear, No Odor
		14-Jan-14	11:35	150	11.1	7.42	1.20	-156	1.1	5.90	1.6	--	Clear, No Odor
		ML02-4	44.39-44.89	14-May-13	15:00	200	16.5	8.80	0.47	-97	1.0	8.90	4.5
17-Jul-13	11:40			200	18.0	8.57	0.95	-46	0.4	3.18	2.5	8.18	Slightly turbid, Gray
01-Aug-13	10:45			180	18.2	7.83	1.04	-310	0.9	0.00	3.0	--	Slightly yellow, sulfur degradation odor
14-Aug-13	11:35			180	17.0	7.94	0.91	-173	0.6	1.30	3.0	0.91	Clear, very slight yellow brown, sulfur degradation odor
27-Aug-13	13:55			180	17.1	7.80	0.82	-230	0.4	0.00	2.7	--	Clear, very slight yellow brown, sulfur degradation odor
12-Sep-13	10:40			145	20.3	7.47	0.99	-203	1.1	0.00	1.8	--	Clear, No Odor
24-Sep-13	12:00			200	15.1	7.78	0.99	-205	0.4	0.00	2.0	--	Slight pale yellow, no odor
18-Nov-13	13:40			250	15.5	7.50	1.02	-160	1.3	0.00	2.0	--	Pale amber, no odor
18-Dec-13	12:45			175	12.2	7.95	0.96	-182	1.5	0.00	3.1	--	Clear, No Odor
14-Jan-14	13:45			150	12.5	7.68	1.02	-200	0.7	0.70	2.2	--	Clear, no odor
ML02-3	54.38-54.88	14-May-13	16:00	200	15.9	9.55	0.77	-119	0.9	7.50	2.7	9.69	Clear, No Odor
		17-Jul-13	12:30	300	17.4	9.17	1.14	-271	0.1	6.74	2.5	8.03	Clear, No Odor
		01-Aug-13	12:05	190	17.3	8.97	1.12	-320	0.7	0.00	3.0	--	Clear, slight yellow, sulfur degradation odor
		14-Aug-13	13:00	160	17.4	8.94	0.97	-217	0.5	2.10	2.5	--	Clear, very slight yellow, sulfur degradation odor
		28-Aug-13	10:10	200	19.3	8.66	0.88	-210	0.4	0.00	2.5	--	Slight pale yellow, no odor
		12-Sep-13	12:00	170	21.0	8.00	1.15	-194	1.0	0.00	1.7	--	Clear, No Odor
		24-Sep-13	12:45	200	16.2	9.46	0.98	-179	0.3	0.00	2.5	--	Pale amber color, organic odor
		18-Nov-13	14:40	250	15.3	8.44	1.07	-166	1.1	0.00	2.0	--	Pale amber color, no odor
		18-Dec-13	13:40	200	11.8	8.56	1.10	-177	1.5	0.00	2.4	--	Clear, No Odor
14-Jan-14	14:53	150	12.0	8.47	1.21	-197	0.6	2.00	2.1	--			

**TABLE 4
FIELD PARAMETER RESULTS -EISB PILOT STUDY
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey**

Well Identifier	Well Screen Interval (ft bgs)	Date Sampled	Time	Flow Rate (ml/m)	Temperature (°C)	pH	Conductivity (µs)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Volume Purged (gal)	Water Level (ft btoc)	Comments
ML02-2	64.40-64.90	15-May-13	11:10	200	15.1	8.50	0.80	16	1.3	4.10	2.5	9.69	Slightly turbid, gray
		17-Jul-13	13:25	300	17.3	9.10	0.93	-144	0.2	5.64	2.5	8.25	Clear, No Odor
		01-Aug-13	15:05	170	17.4	8.69	0.93	-219	1.1	0.00	3.5	--	Slight yellow, sulfur degradation odor
		14-Aug-13	14:55	185	18.1	8.84	0.86	-293	0.3	0.90	4.0	--	Clear, sulfur degradation odor
		28-Aug-13	11:15	200	18.6	8.52	0.78	-240	0.7	0.00	3.0	--	Slight pale yellow, No odor
		12-Sep-13	14:50	180	19.2	8.26	0.91	-204	1.0	0.00	2.9	--	Clear, No Odor
		24-Sep-13	13:35	200	16.1	9.82	0.98	-215	0.5	0.00	2.5	--	Slight amber color, slight organic odor
		19-Nov-13	10:00	250	14.2	8.25	1.04	-219	1.6	0.00	3.5	--	Pale amber color, no odor
		18-Dec-13	15:00	200	11.7	8.72	1.00	-186	1.1	0.00	4.3	--	Clear, No Odor
		15-Jan-14	10:11	150	12.0	8.43	1.78	-180	1.9	0.00	3.4	--	Clear, no odor
ML02-7	74.45-74.95	15-May-13	13:20	200	16.8	8.83	1.82	-108	0.9	6.66	2.5	9.71	Slightly turbid/gray
		17-Jul-13	14:15	300	16.6	8.97	1.80	-135	0.1	319.00	2.5	8.38	Clear, No Odor
		02-Aug-13	10:05	190	18.2	8.38	1.80	-143	0.9	0.00	3.5	--	Medium brown to gold, No Odor
		14-Aug-13	16:10	195	18.0	8.89	1.79	-169	0.3	4.1	3.5	--	Yellow-gold, sulfur degradation odor
		28-Aug-13	12:10	200	19.3	8.77	1.92	-139	0.4	0.00	3.0	--	Amber colored, mineral odor
		12-Sep-13	16:00	155	19.0	8.75	1.84	-132	0.7	0.00	2.4	--	Brown, no odor
		14-Sep-13	14:30	200	16.6	10.07	1.92	-138	0.3	0.00	2.5	--	Amber, organic odor
		19-Nov-13	10:55	250	13.6	8.82	1.99	-165	1.3	0.00	3.0	--	Amber, no odor
		19-Dec-13	11:20	180	11.8	8.70	2.12	-66	0.5	6.70	3.5	--	Dark gold-brown, slight to moderate sulfur degradation odor
		15-Jan-14	11:37	160	10.6	8.84	2.28	-175	1.6	4.30	1.7	--	Yellow, no odor
ML04-1	14.62-15.12	16-May-13	11:00	200	15.6	6.77	0.35	112	1.0	4.00	2.5	9.19	Slightly turbid, Gray/brown
		31-Jul-13	11:40	250	18.3	6.71	0.35	134	1.0	0.00	6.0	--	Clear, no odor
		27-Aug-13	10:10	200	18.8	6.65	0.39	7	0.5	0.00	2.0	--	Clear, no odor
		24-Sep-13	10:50	170	16.9	6.78	0.41	48	0.8	0.00	3.0	--	Clear, no odor
		18-Nov-13	12:35	200	15.6	6.79	0.46	46	0.4	0.00	2.6	--	Clear, no odor
		18-Dec-13	9:42	240	12.6	6.34	10.40	160	4.5	12.00	3.6	--	Clear, no odor
		13-Jan-14	10:49	170	11.3	6.02	10.60	336	3.3	0.00	2.2	--	Clear, no odor
ML04-6	24.69-25.19	16-May-13	12:00	200	16.7	7.49	0.38	-105	0.7	18.70	2.5	9.18	Clear, No Odor
		31-Jul-13	13:25	170	18.3	8.29	0.38	-137	0.9	3.60	3.0	--	Clear, No Odor
		27-Aug-13	11:10	200	18.3	8.23	0.39	-127	0.4	15.80	3.0	--	Clear, No Odor
		24-Sep-13	12:05	195	15.8	8.33	0.42	-113	0.7	15.80	3.0	--	Clear, No Odor
		18-Nov-13	11:45	200	14.7	8.34	0.44	-107	0.7	0.00	4.1	--	Clear, No Odor
		18-Dec-13	11:35	200	12.5	8.01	0.48	-25	0.5	3.00	5.1	--	Clear, No Odor
		15-Jan-13	10:30	190	12.5	8.01	0.48	-25	0.5	3.00	3.0	--	Clear, No Odor
ML04-5	34.59-35.09	16-May-13	12:55	200	18.3	8.21	0.41	-118	0.5	24.20	2.5	9.20	Clear, No Odor
		31-Jul-13	15:15	170	20.7	8.22	0.42	-156	0.7	5.30	2.0	--	Clear, No Odor
		27-Aug-13	12:05	200	18.7	8.01	0.49	-156	0.3	4.30	3.0	--	Clear, No Odor
		24-Sep-13	13:45	210	17.0	8.06	0.56	-148	0.5	4.30	3.3	--	Clear, No Odor
		18-Nov-13	13:50	200	15.3	7.66	0.98	-123	0.4	0.00	2.0	--	Clear, very very slight tan color, no odor
		18-Dec-13	12:35	195	11.9	7.65	0.53	-74	0.5	1.20	2.5	--	Slight brown, no odor
		15-Jan-14	11:45	200	12.6	7.78	0.93	-158	0.4	0.70	2.2	--	V.V Slight tan, no odor

**TABLE 4
FIELD PARAMETER RESULTS -EISB PILOT STUDY
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey**

Well Identifier	Well Screen Interval (ft bgs)	Date Sampled	Time	Flow Rate (ml/m)	Temperature (°C)	pH	Conductivity (µs)	ORP (mV)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Volume Purged (gal)	Water Level (ft btoc)	Comments	
ML04-4	44.32-44.82	11-May-13	14:45	160	18.9	8.80	0.47	-165	0.4	0.00	3.5	9.20	Silty, gray-black, no odor	
		01-Aug-13	10:25	150	16.4	8.26	0.86	-103	1.2	0.00	3.0	--	Clear, no odor	
		27-Aug-13	12:55	200	18.3	8.22	1.06	-126	0.4	0.70	3.0	--	Slight pale yellow, no odor	
		24-Sep-13	14:50	165	17.6	8.34	1.00	-113	0.6	0.70	2.4	--	Slight gold-brown, no odor	
		18-Nov-13	14:55	195	14.6	7.97	1.18	-159	0.4	0.00	3.5	--	Clear, no odor	
		18-Dec-13	13:40	185	12.3	7.85	1.08	-133	0.6	0.50	4.0	--	Clear, very slight tan-gold, slight sulfur odor	
		15-Jan-14	14:15	190	12.9	8.02	1.08	-153	0.6	0.00	4.1	--		
ML04-3	54.62-55.12	16-May-13	16:05	200	19.8	9.13	0.80	-130	0.6	2.00	2.5	9.19	Gray/turbid	
		01-Aug-13	11:50	150	15.7	8.89	0.92	-148	1.0	0.90	3.0	--	Slight pale yellow, no odor	
		27-Aug-13	13:55	200	19.1	8.97	1.15	-140	0.4	5.90	2.5	--	Slight pale yellow, no odor	
		24-Sep-13	15:45	200	17.0	8.98	1.03	-152	0.4	5.90	2.4	--		
		19-Nov-13	10:15	205	13.0	8.57	1.49	-45	0.5	0.00	3.6	4.4	--	Very slight tan brown, no odor
		19-Dec-13	16:00	200	12.1	8.49	1.27	-116	0.6	1.00	3.6	--	Very slight gold-tan, no odor	
		15-Jan-14	15:55	190	13.4	8.74	1.25	-190	0.4	0.70	4.7	--		
ML04-2	64.66-65.16	17-May-13	10:25	200	15.3	8.47	1.06	-138	0.6	19.50	2.5	9.18	Gray/turbid	
		01-Aug-13	14:20	150	16.7	8.59	1.00	-70	0.9	59.10	6.0	--	Slight pale yellow, no odor	
		27-Aug-13	14:40	200	18.4	8.91	0.90	-87	0.8	22.90	3.0	--	Slight pale yellow, no odor	
		25-Sep-13	9:30	200	15.2	8.90	1.04	-172	1.6	22.90	3.0	--	Clear, No Odor	
		19-Nov-13	11:30	200	12.8	8.90	1.13	-76	0.5	0.00	3.5	1.13	--	Slight tan-gold, sulfur odor
		19-Dec-13	9:25	150	12.2	7.99	1.15	-163	1.2	1.40	2.8	--	Clear, No Odor	
		16-Jan-14	1:10	180	12.7	8.99	1.13	-233	0.6	0.70	4.7	1.13	--	
ML04-7	74.75-75.25	17-May-13	11:50	200	15.6	8.91	1.60	-157	0.3	619.00	2.5	9.22	Turbid, brown	
		01-Aug-13	15:35	150	15.9	8.77	1.58	-198	0.9	36.10	3.0	--	Clear, slight sulfur degradation odor	
		27-Aug-13	15:30	200	19.1	9.11	1.50	-161	0.3	16.50	2.5	--	Slight pale brown, mineral odor	
		25-Sep-13	10:35	200	15.7	9.18	1.57	-150	2.3	16.50	2.6	--	Slight pale brown, mineral odor	
		19-Nov-13	13:35	200	13.3	9.23	1.63	-72	0.5	10.80	3.1	--		
		19-Dec-13	11:00	150	13.1	8.50	1.67	-150	0.5	22.80	3.8	--	Gold-brown, No Odor.	
		16-Jan-14	14:54	165	10.7	9.18	1.60	-217	0.5	17.10	4.5	--		

Notes:

- - not available
- °C - degrees Celsius
- ft btoc - feet below top of casing
- GMW - groundwater monitoring well
- µmhos/cm - micromhos per centimeter
- mg/L - milligrams per liter
- gal - gallons
- * -ML02-01 is hydraulically connected to ML02-02. Data should not be considered for evaluation.
- mL - milliliters
- ml/m - milliliter per minute
- mV - millivolts
- NTU - Nephelometric Turbidity Units
- ORP - oxidation reduction potential
- TDS - total dissolved solids
- µS - microsiemens

TABLE 5
 SELECT TARGET COMPOUND RESULTS - EISB PILOT STUDY
 DuPont Pompton Lakes Works
 Pompton Lakes, New Jersey

Location	Screen Interval (ft bgs)	Sample Event	Sampling Date	VOCs										DHGs				Other						
				1,1,1 TCA	1,1-DCA	1,1-DCE	1,2-DCA	CT	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC	Ethane	Ethene	Methane	Bromide	Chloride	Sulfate	Sulfide	TOC	Iron	vcrA	vcrA
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	Copies/L
128	6.24-26.24	Baseline - May/June 2013	1-May-13	--	--	--	--	--	--	--	--	--	--	--	<1.0	<1.0	<3.0	<2.0	202	17.9	--	--	--	--
		Baseline - May/June 2013	21-May-13	<0.1	<0.1	<0.1	<0.1	<0.1	2.6	4.4	2.6	1.3	<0.1	--	--	--	--	--	--	--	--	--	--	--
		Monthly - Nov 2013	19-Nov-13	<0.1	<0.1	<0.1	1.1	<0.1	1.1	6.1	7.6	4	<0.1	--	--	--	--	--	--	--	--	--	--	--
		Monthly - Jan 2014	15-Jan-14	<0.1	<0.1	<0.1	0.3 J	<0.1	8.3	8	5	2.7	<0.1	<1.0	<1.0	<3.0	<2.0	606	27	--	3.3	--	--	--
128-I	61.36-71.36	Baseline - May/June 2013	2-May-13	--	--	--	--	--	--	--	--	--	--	--	5.4	3.7 J	1100	<2.0	84.8	36.2	--	--	--	--
		Baseline - May/June 2013	21-May-13	<1.0	5.4	5.9	2.5 J	<1.0	<1.0	1.7 J	890	200	79	--	--	--	--	--	--	--	--	--	--	
		Monthly - Nov 2013	19-Nov-13	<1.0	3.9 J	5	2.3 J	<1.0	<1.0	1.4 J	750	200	110	--	--	--	--	--	--	--	--	--	--	
		Monthly - Jan 2014	15-Jan-14	<1.0	6.7	7.2	<1.0	<1.0	<1.0	2.4 J	1100	270	190	8.2	5.9	1200	<2.0	91.6	34.6	--	6.7	--	--	--
128-D	125.2-145.2	Baseline - May/June 2013	2-May-13	--	--	--	--	--	--	--	--	--	--	<1.0	1.1 J	190	<2.0	11.8	12.6	--	--	--	--	
		Baseline - May/June 2013	21-May-13	<0.1	<0.1	<0.1	4.7	<0.1	<0.1	0.4 J	6.6	7	2.8	--	--	--	--	--	--	--	--	--	--	
		Monthly - Nov 2013	19-Nov-13	<0.1	<0.1	<0.1	6.2	<0.1	<0.1	0.5	6.4	6.9	2.6	--	--	--	--	--	--	--	--	--	--	
		Monthly - Jan 2014	16-Jan-14	<0.1	0.1 J	0.1 J	6.4	<0.1	<0.1	1.2	20	7.9	3.9	<1.0	<1.0	1800	<2.0	10.4	8	--	4.5	--	--	--
EW01-UPPER	21.60 - 45.92	Baseline - May/June 2013	16-May-13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5.7 J	--	--	
		Baseline - May/June 2013	17-May-13	0.2 J	0.2 J	0.3 J	<0.1	<0.1	16	20	29	17	4.3	<1.0	<1.0	26	<0.15	47.9	34.3	<0.054	<0.50	--	3.E+03 U	NA
		Biweekly - Mid July 2013	17-Jul-13	<0.1	<0.1	0.2 J	<0.1	<0.1	21	22	17	9.8	0.6	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	--
		Monthly - July/Aug 2013	2-Aug-13	0.1 J	<0.1	0.2 J	<0.1	<0.1	21	21	20	13	0.8	<1.0	<1.0	<3.0	--	--	--	--	<0.50	--	--	--
		Biweekly - Mid Aug 2013	15-Aug-13	0.1 J	<0.1	0.2 J	<0.1	<0.1	21	20	20	12	0.8	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	--
		Monthly - Aug 2013	28-Aug-13	0.1 J	<0.1	0.2 J	<0.1	<0.1	21	20	19	12	0.7	<1.0	<1.0	<3.0	--	--	--	--	<0.50	--	--	--
		Biweekly - Mid Sept 2013	13-Sep-13	0.1 J	<0.1	0.2 J	<0.1	<0.1	22	22	20	13	0.7	<1.0	<1.0	<3.0	--	--	--	--	--	--	--	--
		Monthly - Sept 2013	25-Sep-13	0.1 J	<0.1	0.2 J	<0.1	<0.1	21	22	20	13	0.7	<1.0	<1.0	<3.0	--	--	--	--	<0.50	--	--	--
EW01-LOWER	50.69 - 75.00	Baseline - May/June 2013	14-Jun-13	<0.5	2.5	4.6	<0.5	<0.5	0.9 J	43	630	260 J	97	2.3 J	3.7 J	910	<2.0	54.1	43.9	<0.054	17.4	--	5.E+03 C	0.0006-0.002
		Biweekly - Mid July 2013	17-Jul-13	<1.0	3.1 J	3.9 J	<1.0	<1.0	22	49	530	200	120	4.8 J	4.9 J	900	--	--	--	--	--	--	--	--
		Monthly - July/Aug 2013	1-Aug-13	<0.5	3.1	3.7	<0.5	<0.5	21	51	550	200	120	6.2	6.5	1000	--	--	--	--	5.4	--	--	--
		Biweekly - Mid Aug 2013	15-Aug-13	<1.0	3.2 J	3.6 J	<1.0	<1.0	25	52	520	200	120	6	6.5	860	--	--	--	--	--	--	--	--
		Monthly - Aug 2013	28-Aug-13	<0.5	3.5	4.1	<0.5	<0.5	16	49	600	220	130	7.4	8.7	910	--	--	--	--	7.1	--	--	--
		Biweekly - Mid Sept 2013	13-Sep-13	<0.5	4	5.3	<0.5	<0.5	8.9	51	750	300	160	8.5	10	1300	--	--	--	--	--	--	--	--
		Monthly - Sept 2013	25-Sep-13	<0.5	3.6	5	<0.5	<0.5	5	48	720	290	150	7	8.1	1100	--	--	--	--	7.7	--	--	--
		Monthly - Nov 2013	19-Nov-13	<1.0	2.5 J	3.8 J	<1.0	<1.0	6.2	39	580	200	110	6.1	7.7	1000	--	50.4	31.3	<0.054	8.3	1.90 B	--	--
		Monthly - Dec 2013	19-Dec-13	<0.5	2.9	4.2	<0.5	<0.5	4.8	45	630	230	140	5.7	7.9	1000	--	--	--	--	7.9	--	--	--
		Monthly - Jan 2014	14-Jan-14	<0.5	3	4.2	<0.5	<0.5	1.0 J	30	680	250	160	6.6	11	1100	12.5	53.2	27.2	<0.054	8.5	--	8.E+05	0.001-0.003
IW01-UPPER	19.90-44.90	Baseline - May/June 2013	14-May-13	0.1 J	<0.1	0.2 J	<0.1	<0.1	21	25	24	16	0.9	<1.0	<1.0	<3.0	<2.0	60.1	25.8	<0.054 R	2	--	--	--
		Monthly - Jan 2014	16-Jan-14	<0.1	<0.1	0.2 J	<0.1	<0.1	17	25	17	11	0.6	<1.0	<1.0	<3.0	--	--	--	--	1.3	--	--	--
IW01-LOWER	49.70-74.20	Baseline - May/June 2013	14-May-13	<0.5	2.2 J	3.7	<0.5	<0.5	0.6 J	22	440	150	79	3.6 J	3.4 J	880	<2.0	--	--	--	5.7	--	--	--
		Monthly - Jan 2014	13-Jan-14	<1.0	3.4 J	4.1 J	<1.0	<1.0	<1.0	4.1 J	650	190	150	6.8	21	950	--	--	--	--	7.8	--	--	--
IW02-UPPER	21.60-45.92	Baseline - May/June 2013	4-Jun-13	0.2 J	<0.1	0.1 J	<0.1	<0.1	19	19	14	7.2	0.4 J	<1.0	<1.0	<3.0	<2.0	26.5	37.1	--	1	--	3.E+03 U	NA
		Monthly - Jan 2014	13-Jan-14	<1.0	2.4 J	3.1 J	<1.0	<1.0	<1.0	4.5 J	530	160	93	3.5 J	5	580	--	--	--	--	13.1	--	1.E+04	0.0008-0.002
IW02-LOWER	50.69-75.00	Baseline - May/June 2013	15-May-13	<1.0	2.0 J	3.5 J	<1.0	<1.0	<1.0	23	440	150	70	2.6 J	2.4 J	650	<2.0	50.4	41	--	--	--	2.E+03	0.0004-0.001
		Monthly - Jan 2014	14-Jan-14	<1.0	2.6 J	3.5 J	<1.0	<1.0	<1.0	6.6	580	190	110	5	9.5	770	--	--	--	--	18	--	1.E+05	0.002-0.005
IW03-UPPER	21.10-45.42	Baseline - May/June 2013	15-May-13	0.4 J	0.2 J	0.2 J	<0.1	<0.1	19	17	22	10	2.2	<1.0	<1.0	22	<2.0	77.2	24.4	--	<0.50	--	--	--
		Monthly - Jan 2014	13-Jan-14	<0.1	<0.1	0.1 J	<0.1	<0.1	12	15	20	8	1.4	59	<1.0	530	--	--	--	--	1.4	--	--	--
IW03-LOWER	50.19-75.50	Baseline - May/June 2013	17-May-13	<1.0	1.3 J	2.8 J	<1.0	<1.0	<1.0	28	380	140	56	1.7 J	3.0 J	840	<0.075	48.3	42.5	--	7.2	--	--	--
		Monthly - Jan 2014	13-Jan-14	<0.1	3.5	3.6	<0.1	<0.1	<0.1	1	410	67	190	5.6	96	920	--	--	--	--	29.1	--	--	--
ML02-1*	14.42-14.92	Baseline - May/June 2013	14-May-13	0.4 J	0.2 J	0.1 J	<0.1	<0.1	23	14	41	9.9	5.4	<1.0	<1.0	10 J	<2.0	35	23.2	<0.054 R	--	--	--	--
		Monthly - July/Aug 2013	31-Jul-13	0.3 J	0.3 J	0.4 J	<0.1	<0.1	23	15	35	17	8.1	--	--	--	--	--	--	--	2.7	--	--	--
		Monthly - Aug 2013	27-Aug-13	0.3 J	<0.1	0.2 J	<0.1	<0.1	20	15	15	6.9	1.2	--	--	--	--	--	--	--	<0.50	--	--	--
		Monthly - Nov 2013	18-Nov-13	<0.1	2.6	3.6	<0.1	<0.1	9.7	24	440	150	85	--	--	--	--	--	--	--	12.4	--	--	--
		Monthly - Dec 2013	18-Dec-13	<0.1	3.4	5.4	<0.1	<0.1	1.4	15	590	210	130	--	--	--	--	--	--	--	11.9	--	--	--
ML02-6	24.39-24.89	Baseline - May/June 2013	14-May-13	<0.1	<0.1	0.3 J	<0.1	<0.1	19	22	22	16	1.2	<1.0	<1.0	3.3 J	<2.0	34.6	39.8	<0.054 R	--	--	--	--
		Monthly - July/Aug 2013	31-Jul-13	<0.1	<0.1	0.3 J	<0.1	<0.1	23	22	22	15	0.9	--	--	--	--	--	--	--	0.51 J	--	--	--
		Monthly - Aug 2013	27-Aug-13	<0.1	<0.1	0.3 J	<0.1	<0.1	24	22	22	15	0.9	--	--	--	--	--	--	--	0.53 J	--	--	--
		Monthly - Sept 2013	24-Sep-13	<0.1	<0.1	0.3 J	<0.1	<0.1	24	23	23	16	0.8 J	--	--	--	--	--	--	--	0.91 J	--	--	--
		Monthly - Nov 2013	18-Nov-13	<0.1	<0.1	0.2 J	<0.1	<0.1	23	22	19	14	0.9	--	--	--	--	--	--	--	1.3	--	--	--
		Monthly - Dec 2013	18-Dec-13	<0.1	1.9	2.8	<0.1	<0.1	21	28	280	83	66	--	--	--	--	--	--	--	2.5	--	--	--
ML02-5	34.36-34.86	Baseline - May/June 2013	14-May-13	0.2 J	0.2 J	0.5	<0.1	<0.1	24	40	45	25	1.8	<1.0	<1.0	5.8	<2.0	13	28.6	0.16 J	--	--	--	--
		Biweekly - Mid July 2013	17-Jul-13	0.2 J	0.2 J	0.5	<0.1	<0.1	12	30	53	24	5.4	--	--	--	--	--	--	--	--	--	--	--
		Monthly - July/Aug 2013	31-Jul-13	0.2 J	0.2 J	0.5	<0.1	<0.1	34	44	43	19	1.7	--	--	--	--	--	--	--	1.5	--	--	--
		Biweekly - Mid Aug 2013	14-Aug-13	0.3 J	0.2 J	0.6	<0.1	<0.1	36	43	43	25	1.5	--	--	--	--	--	--	--	--	--	--	--
		Monthly - Aug 2013	27-Aug-13	0.4 J	0.2 J	0.6	<0.1	<0.1	41	49	48	19	2.1	--	--	--	--	--	--	--	0.70 J	--	--	--
		Biweekly - Mid Sept 2013	12-Sep-13	0.1 J	1.9	2.4	<0.1	<0.1	26	56	240	76	52	--	--	--	--	--	--	--	--	--	--	--
		Monthly - Sept 2013	24-Sep-13	<0.1	3.6	4.4	<0.1	<0.1	18	45	500	140	120 J	--	--</									

TABLE 5
SELECT TARGET COMPOUND RESULTS - EISB PILOT STUDY
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

Location	Screen Interval (ft bgs)	Sample Event	Sampling Date	VOCs										DHGs					Other						
				1,1,1 TCA	1,1-DCA	1,1-DCE	1,2-DCA	CT	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC	Ethane	Ethene	Methane	Bromide	Chloride	Sulfate	Sulfide	TOC	Iron	vcrA	vcrA	
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	Copies/L	% vcrA
ML02-4	44.39-44.89	Baseline - May/June 2013	14-May-13	0.5	0.4 J	1.4	<0.1	<0.1	46	85	89	36	6	<1.0	<1.0	22	<2.0	20.6	43.8	0.14 J	--	--	--	--	
		Biweekly - Mid July 2013	17-Jul-13	<1.0	2.9 J	3.2 J	<1.0	<1.0	6.1 J	44 J	510 J	81 J	61 J	4.6 J	5	840	--	--	--	--	--	--	--	--	
		Monthly - July/Aug 2013	1-Aug-13	<0.5	3	3.7	<0.5	<0.5	24	53	530	200	120	120	5.5	6.5	720	--	--	--	--	24.6	--	--	--
		Biweekly - Mid Aug 2013	14-Aug-13	0.2 J	3.5	4.6	<0.1	<0.1	23	50	510	180	110	5.3	6.4	680	--	--	--	--	--	--	--	--	
		Monthly - Aug 2013	27-Aug-13	<1.0	3.2 J	3.9 J	<1.0	<1.0	21	50	500	190	120	6.2	8.1	770	--	--	--	--	12.5	--	--	--	
		Biweekly - Mid Sept 2013	12-Sep-13	<1.0	3.6 J	4.3 J	<1.0	<1.0	9.8	30	670	220	130	6.4	9.3	920	--	--	--	--	--	--	--	--	
		Monthly - Sept 2013	24-Sep-13	<0.1	4.2	5.6	<0.1	<0.1	4.9	13	710	240	140 J	7.6	12	1100	--	--	--	--	34.3	--	--	--	
		Monthly - Nov 2013	18-Nov-13	<1.0	3.5 J	3.1 J	<1.0	<1.0	2.0 J	6.5	600	240	190	8	77	1200	--	61.7	6	0.12 J	7.9	1.24 J	--	--	
		Monthly - Dec 2013	18-Dec-13	<0.2	2.8	0.9 J	<0.2	<0.2	0.6 J	1.2	150	180	110	5.4	170	990	--	--	--	--	11.7	--	--	--	
		Monthly - Jan 2014	14-Jan-14	<0.1	3.2	0.6	<0.1	<0.1	1.1	3.8	83	110	77	5.1	210	850	9.6	52.6	4.9 J	0.2	8.6	--	--	--	
ML02-3	54.38-54.88	Baseline - May/June 2013	14-May-13	<0.1	2.7	2.4	<0.1	<0.1	7.7	52	280	81	46	2.5 J	<1.0	140	<2.0	48.3	39.6	0.59 J	--	--	1.E+04 U	NA	
		Biweekly - Mid July 2013	17-Jul-13	<0.5	2.7	2.8	<0.5	<0.5	6.3	33	470	160	99	3.0 J	3.6 J	460	--	--	--	--	--	--	--		
		Monthly - July/Aug 2013	1-Aug-13	<0.5	3	3.6	<0.5	<0.5	17	49	520	190	120	5.9	6.7	800	--	--	--	--	47.1	--	--		
		Biweekly - Mid Aug 2013	14-Aug-13	0.1 J	3.6	4.6	<0.1	<0.1	25	48	510	180	110	4.8 J	6.1	630	--	--	--	--	--	--	--		
		Monthly - Aug 2013	28-Aug-13	<0.5	3.3	3.8	<0.5	<0.5	16	46	580	210	120	6.2	8.3	740	--	--	--	--	14.4	--	--		
		Biweekly - Mid Sept 2013	12-Sep-13	<0.5	3.5	4.4	<0.5	<0.5	5.4	23	660	240	130	6.5	9.1	840	--	--	--	--	--	--	--		
		Monthly - Sept 2013	24-Sep-13	<0.5	3.8	4.6	<0.5	<0.5	2.1 J	11	770	280	140 J	6.9	9.2	860	--	--	--	--	44.6	--	--		
		Monthly - Nov 2013	18-Nov-13	<0.5	3.4	4.5	<0.5	<0.5	<0.5	1.6 J	670	200	140	6.6	10	920	--	--	--	--	38.3	--	--		
		Monthly - Dec 2013	18-Dec-13	<0.5	2.7	3.8	<0.5	<0.5	<0.5	1.2 J	590	96	240	4.3 J	13	1200	--	--	--	--	49.1	--	--		
		Monthly - Jan 2014	14-Jan-14	<0.5	2.6	2.8	<0.5	<0.5	<0.5	0.9 J	350	5.6	280	5.4	96	3100	9.2	48.4	<1.5	0.12 J	54.7	--	7.E+07	0.04-0.1	
ML02-2	64.40-64.90	Baseline - May/June 2013	15-May-13	<1.0	4.3 J	5.3	<1.0	<1.0	1.4 J	10	830	310	140	6.4	4.7 J	730	<2.0	59.2	33.2	<0.054	--	--	--	--	
		Biweekly - Mid July 2013	17-Jul-13	<0.5	1.0 J	1.2 J	<0.5	<0.5	7.3	16	190	65	33	1.1 J	1.1 J	120	--	--	--	--	--	--	--		
		Monthly - July/Aug 2013	1-Aug-13	<0.2	2.2	2.9	<0.2	<0.2	14	36	370	140	80	4.0 J	4.5 J	420	--	--	--	--	48.7	--	--		
		Biweekly - Mid Aug 2013	14-Aug-13	0.2 J	2.9	3.8	<0.1	<0.1	18	36	410	150	82	4.1 J	4.6 J	460	--	--	--	--	--	--	--		
		Monthly - Aug 2013	28-Aug-13	<0.2	2.3	2.7	<0.2	<0.2	14	38	370	130	75	4.3 J	5.2	520	--	--	--	--	11.9	--	--		
		Biweekly - Mid Sept 2013	12-Sep-13	<0.2	2.6	3.5	<0.2	<0.2	9.7	32	460	170	87	4.7 J	5.9	690	--	--	--	--	--	--	--		
		Monthly - Sept 2013	24-Sep-13	<1.0	3.3 J	3.9 J	<1.0	<1.0	5.4	24	660	220	110 J	6.3	8.2	790	--	--	--	--	41.9	--	--		
		Monthly - Nov 2013	19-Nov-13	<0.5	3	4.2	<0.5	<0.5	3.3	18	610	220	120	6	8.4	840	--	54.7	9.5	0.67	33.4	<0.0430	--	--	
		Monthly - Dec 2013	18-Dec-13	<0.2	2.8	4.1	<0.2	<0.2	0.6 J	5.2	580	190	140	5	7.8	800	--	--	--	--	34.8	--	--		
		Monthly - Jan 2014	15-Jan-14	<0.5 UJ	1.2 J	2.0 J	<0.5	<0.5	2.6	4.3	300	76 J	77	3.1 J	3.9 J	340	4.2	343	13.2	0.12 J	4.2	--	--	--	
ML02-7	74.45-74.95	Baseline - May/June 2013	15-May-13	<0.5	1.3 J	1.0 J	<0.5	<0.5	1.9 J	14	190	57	55	4.7 J	13	1900	<2.0	62.4	29.2	<0.054	--	--	--	--	
		Biweekly - Mid July 2013	17-Jul-13	<0.2	1.4	1	<0.2	<0.2	1.1	8.8	150	45	70	2.5 J	6.5	960	--	--	--	--	--	--	--		
		Monthly - July/Aug 2013	2-Aug-13	<0.5	1.1 J	<0.5	<0.5	<0.5	<0.5	<0.5	72	3.1	120	4.8 J	18	2500	--	--	--	--	26	--	--		
		Biweekly - Mid Aug 2013	14-Aug-13	<0.1	1.3	0.5	<0.1	<0.1	<0.1	0.2 J	68	3.7	110	4.4 J	17	2600	--	--	--	--	--	--	--		
		Monthly - Aug 2013	28-Aug-13	<0.2	1	0.4 J	<0.2	<0.2	<0.2	0.2 J	55	2.9	100	3.7 J	17	2300	--	--	--	--	27.5	--	--		
		Biweekly - Mid Sept 2013	12-Sep-13	<0.2	1.1	0.4 J	<0.2	<0.2	<0.2	0.4 J	68	5	100	4.9 J	22	2900	--	--	--	--	--	--	--		
		Monthly - Sept 2013	24-Sep-13	<0.1	1.2	0.5	<0.1	<0.1	<0.1	0.3 J	64	4.3	100 J	3.6 J	15	4300	--	--	--	--	29.6	--	--		
		Monthly - Nov 2013	19-Nov-13	<0.5	1 J	<0.5	<0.5	<0.5	<0.5	<0.5	57	2.5	110	4.3 J	18	2500	--	--	--	--	31.1	--	--		
		Monthly - Dec 2013	19-Dec-13	<0.2	0.8 J	0.3 J	<0.2	<0.2	<0.2	<0.2	41	2.3	110	4.0 J	22	2200	--	--	--	--	31.4	--	--		
		Monthly - Jan 2014	15-Jan-14	<0.1	1.1	0.4 J	<0.1	<0.1	<0.1	0.2 J	57	3.9	120	4.6 J	17	2800	4	57.4	10.5	0.28	31.6	--	--		
ML04-1	14.62-15.12	Baseline - May/June 2013	16-May-13	0.3 J	<0.1	<0.1	<0.1	<0.1	20	14	12	2.3	<0.1	<1.0	<1.0	<3.0	<2.0	40.7	23.3	--	--	--	--		
		Monthly - July/Aug 2013	31-Jul-13	0.3 J	0.3 J	0.4 J	<0.1	<0.1	21	20	43	19	8.9	--	--	--	--	--	--	--	<0.50	--	--		
		Monthly - Aug 2013	27-Aug-13	0.2 J	0.7	0.8	<0.1	<0.1	19	24	90	29	18	--	--	--	--	--	--	--	<0.50	--	--		
		Monthly - Sept 2013	24-Sep-13	0.3 J	0.1 J	0.2 J	<0.1	<0.1	22	17	21	8.4	1.0 J	--	--	--	--	--	--	--	<0.50	--	--		
		Monthly - Nov 2013	18-Nov-13	0.2 J	0.6	0.5	<0.1	<0.1	20	18	59	21	9.8	--	--	--	--	--	--	--	0.89 J	--	--		
		Monthly - Dec 2013	18-Dec-13	0.2 J	0.6	0.7	<0.1	<0.1	11	11	92	31	10	--	--	--	--	--	--	--	1.4	--	--		
ML04-6	24.69-25.19	Baseline - May/June 2013	16-May-13	<0.1	0.1 J	0.3 J	<0.1	<0.1	22	26	30	16	1	<1.0	<1.0	<3.0	<2.0	19.7	42.3	--	--	--	--		
		Monthly - July/Aug 2013	31-Jul-13	<0.1	0.1 J	0.4 J	<0.1	<0.1	24	23	31	18	1.3	--	--	--	--	--	--	--	1.5	--	--		
		Monthly - Aug 2013	27-Aug-13	<0.1	0.1 J	0.4 J	<0.1	<0.1	24	25	30	20	1.2	--	--	--	--	--	--	--	1.5	--	--		
		Monthly - Sept 2013	24-Sep-13	<0.1	0.1 J	0.5	<0.1	<0.1	24	25	35	20	1.1 J	--	--	--	--	--	--	--	1.5	--	--		
		Monthly - Nov 2013	18-Nov-13	<0.1	0.1 J	0.4 J	<0.1	<0.1	23	25	31	21	1.8	--	--	--	--	--	--	--	2	--	--		
		Monthly - Dec 2013	18-Dec-13	<0.1	<0.1	0.4 J	<0.1	<0.1	22	24	28	21	1.1	--	--	--	--	--	--	--	2	--	--		
		Monthly - Jan 2014	15-Jan-14	<0.1	<0.1	0.4 J	<0.1	<0.1	20	23	27	18	1.1	<1.0	<1.0	<3.0	<2.0	20.9	46.1	--	2.1	--	--		

TABLE 5
SELECT TARGET COMPOUND RESULTS - EISB PILOT STUDY
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

Location	Screen Interval (ft bgs)	Sample Event	Sampling Date	VOCs										DHGs					Other					
				1,1,1-TCA µg/L	1,1-DCA µg/L	1,1-DCE µg/L	1,2-DCA µg/L	CT µg/L	PCE µg/L	TCE µg/L	cis-1,2-DCE µg/L	trans-1,2-DCE µg/L	VC µg/L	Ethane µg/L	Ethene µg/L	Methane µg/L	Bromide mg/L	Chloride mg/L	Sulfate mg/L	Sulfide mg/L	TOC mg/L	Iron mg/L	vcrA Copies/L	vcrA % vcrA
ML04-5	34.59-35.09	Baseline - May/June 2013	16-May-13	<0.2	<0.2	0.5 J	<0.2	<0.2	7.8	32	44	23	1.3	<1.0	<1.0	3.4 J	<2.0	30.5	25.9	--	--	--	--	
		Monthly - July/Aug 2013	31-Jul-13	<0.1	0.4 J	0.7	<0.1	<0.1	17	32	61	22	12	--	--	--	--	--	--	2.3	--	--	--	
		Monthly - Aug 2013	27-Aug-13	<0.1	1.6 J	1.1	<0.1	<0.1	21	38	110	36	21	--	--	--	--	--	--	2.5	--	--	--	
		Monthly - Sept 2013	24-Sep-13	<0.2	0.9 J	1.3	<0.2	<0.2	23	47	150	55	28 J	--	--	--	--	--	--	2.2	--	--	--	
		Monthly - Nov 2013	18-Nov-13	<0.1	3.7	5.4	<0.1	<0.1	6.2	25	610	170	120	--	--	--	--	--	--	6.2	--	--	--	
		Monthly - Dec 2013	18-Dec-13	<0.1	0.9	2.4	<0.1	<0.1	4.8	19	310	140	29	--	--	--	--	--	--	7.4	--	--	--	
Monthly - Jan 2014	15-Jan-14	<0.5	1.6 J	1.9 J	<0.5	<0.5	3.4	12	280	110	67	3.8 J	4.7 J	750	12.2	46.2	5	--	5.3	--	--	--		
ML04-4	44.32-44.82	Baseline - May/June 2013	16-May-13	0.4 J	0.4 J	1.1 J	<0.3	<0.3	39	70	75	38	4.2	<1.0	<1.0	7.4	<2.0	28.9	37.5	--	--	--	--	
		Monthly - July/Aug 2013	1-Aug-13	<0.5	2.4 J	2.7	<0.5	<0.5	36	91	350	85	95	4.6 J	5.1	680	--	--	--	--	3.8	--	--	--
		Monthly - Aug 2013	27-Aug-13	<0.5	2.9	3.3	<0.5	<0.5	29	73	450	150	110	5.5	7.8	740	--	--	--	--	4.1	--	--	--
		Monthly - Sept 2013	24-Sep-13	<0.2	3.4	4.1	<0.2	<0.2	27	61	500	170	110 J	6.7	8.8	870	--	--	--	--	4.4	--	--	--
		Monthly - Nov 2013	18-Nov-13	<0.5	3.3	4.3	<0.5	<0.5	9.5	32	640	180	130	7.7	11	1000	--	55.8	2.2 J	<0.054	6.3	0.553 J	--	--
		Monthly - Dec 2013	18-Dec-13	<0.5	3.4	4.3	<0.5	<0.5	9.2	33	750	230	180	6.7	10	960	--	--	--	--	7.1	--	--	--
Monthly - Jan 2014	15-Jan-14	<0.5	3.2	4.1	<0.5	<0.5	12	47	620	190	160	6.1	12	950	13.8	54.9	6	--	6.4	--	--	--		
ML04-3	54.62-55.12	Baseline - May/June 2013	16-May-13	<0.1	0.3 J	0.6	<0.1	<0.1	1.7	17	64	23	7.7	<1.0	<1.0	110	<2.0	45.3	44.7	--	--	2.E+04	0.0005-0.001	
		Monthly - July/Aug 2013	1-Aug-13	<0.5	2.5	3.2	<0.5	<0.5	3.4	72	400	140	88	3.9 J	3.8 J	460	--	--	--	--	4.6	--	--	--
		Monthly - Aug 2013	27-Aug-13	<0.5	2.5	3.1	<0.5	<0.5	6.8	60	410	140	88	4.6 J	5.9	540	--	--	--	--	6.5	--	--	--
		Monthly - Sept 2013	24-Sep-13	<0.1	3.5	4.6	<0.1	<0.1	13	43	480	170	95 J	6.7	8.8	790	--	--	--	--	7	--	--	--
		Monthly - Nov 2013	19-Nov-13	<0.5	3	3.7	<0.5	<0.5	1.1 J	13	660	200	130	6.4	9.2	900	--	--	--	--	54.8	--	--	--
		Monthly - Dec 2013	18-Dec-13	<0.5	3.3	4	<0.5	<0.5	0.7 J	10	710	200	190	6.5	11	820	--	--	--	--	13.6	--	--	--
Monthly - Jan 2014	15-Jan-14	<0.5	3.1	3.8	<0.5	<0.5	<0.5	8.9	650	95 J	280	6.3	25	890	21.7	56	1.9 J	--	12.9	--	7.E+06	0.06-0.2		
ML04-2	64.66-65.16	Baseline - May/June 2013	17-May-13	<0.2	1.5	1.9	<0.2	<0.2	3.8	24	200	62	45	20	31	4100	<2.0	118	31.9	--	--	--	--	
		Monthly - July/Aug 2013	1-Aug-13	<1.0	7	7.7	<1.0	<1.0	<1.0	33	1300	430	280	11	16	1700	--	--	--	--	7.9	--	--	--
		Monthly - Aug 2013	27-Aug-13	<1.0	4.7 J	6.4	<1.0	<1.0	<1.0	33	1100	380	170	8	10	880	--	--	--	--	12.8	--	--	--
		Monthly - Sept 2013	25-Sep-13	<1.0	3.3 J	4.9 J	<1.0	<1.0	<1.0	23	600	220	110	6.1	7.5	710	--	--	--	--	19.9	--	--	--
		Monthly - Nov 2013	19-Nov-13	<1.0	3.4 J	4.6 J	<1.0	<1.0	<1.0	16	730	280	130	5.6	7.5	780	--	51.4	6.3	0.18	26.8	0.910 B	--	--
		Monthly - Dec 2013	19-Dec-13	<1.0	3.4 J	4.8 J	<1.0	<1.0	<1.0	9.1	750	280	150	5	7.2	800	--	--	--	--	32.5	--	--	--
Monthly - Jan 2014	16-Jan-14	1.6 J	4.1	4.7	<0.5	<0.5	<0.5	5.6	780	280	160	5.5	7	830	20.6	54.3	<1.5	--	26.7	--	--	--		
ML04-7	74.75-75.25	Baseline - May/June 2013	17-May-13	<0.5	1.7 J	1.2 J	<0.5	<0.5	<0.5	4.6	220	35	150	5.4	11	2700	<2.0	64.9	34.5	--	--	--	--	
		Monthly - July/Aug 2013	1-Aug-13	<0.2	1.7	0.7 J	<0.2	<0.2	<0.2	0.4 J	100	6.3	170	5.7	12	2400	--	--	--	--	16.1	--	--	--
		Monthly - Aug 2013	27-Aug-13	<0.2	1.7	0.7 J	<0.2	<0.2	<0.2	0.4 J	79	6.3	120	5.3	14	1800	--	--	--	--	16.3	--	--	--
		Monthly - Sept 2013	25-Sep-13	<0.5	1.7 J	0.7 J	<0.5	<0.5	<0.5	<0.5	120	7	180	6.6	15	2200	--	--	--	--	16.8	--	--	--
		Monthly - Nov 2013	19-Nov-13	<0.2	1.6	0.7 J	<0.2	<0.2	<0.2	0.4 J	91	6.3	140	4.6 J	12	1700	--	--	--	--	17.3	--	--	--
		Monthly - Dec 2013	19-Dec-13	<0.2	1.5	0.7 J	<0.2	<0.2	<0.2	0.5 J	91	6.5	180	4.9 J	15	1700	--	--	--	--	17.4	--	--	--
Monthly - Jan 2014	16-Jan-14	<0.5	1.8 J	0.7 J	<0.5	<0.5	<0.5	<0.5	1.4 J	110	7.6	190	6	13	2400	<2.0	55.1	32.3	--	16.4	--	--	--	

Notes:

- < Less than the laboratory reporting limit shown
- Analyte not measured
- * ML02-1 is hydraulically connected to ML02-2. Data should not be considered for evaluation.

Laboratory-Assigned Qualifiers

- C Correction factor applied to correct for non-specific PCR amplification products, value is an estimated quantity.
- NA Not applicable.
- J Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL).
- R Associated MS and/or MSD analysis had relative percent recovery values less than the data rejection level. The reported non-detect result is unusable.
- U Not detected, associated value is the quantitation limit.

Definitions

- ft bgs feet below ground surface
- CT carbon tetrachloride
- cis-1,2-DCE cis-1,2-dichloroethene
- 1,1-DCA 1,1-dichloroethane
- 1,2-DCA 1,2-dichloroethane
- 1,1-DCE 1,1-dichloroethene
- DHG dissolved hydrocarbon gases
- mg/L milligrams per liter
- µg/L micrograms per liter
- PCE tetrachloroethene
- trans-1,2-DCE trans-1,2-dichloroethene
- 1,1,1-TCA 1,1,1-trichloroethane
- TCE trichloroethene
- TOC total organic carbon
- VC vinyl chloride
- VOC volatile organic compounds

TABLE 6
SOIL GAS PROBE SAMPLING RESULTS - EISB PILOT STUDY
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

Location	Sample Event	Sampling Date	VOCs									
			1,1,1 TCA	1,1-DCA	1,1-DCE	1,2-DCA	CT	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	VC
			µg/m ³									
SGP-01	Baseline - May/June 2013	6-Jun-13	21	<8	<8	<8	<13	1900	240	19	<8	<5
	BiWeekly - Early Aug 2013	6-Aug-13	32	<8	<8	<8	<13	2100	290	36	14	<5
	BiWeekly - Late Aug 2013	29-Aug-13	26	<8	<8	<8	<13	1800	230	31	12	<5
	Monthly - Sept 2013	25-Sep-13	27	<8	<8	<8	<13	1800	250	32	12	<5
	Monthly - Nov 2013	19-Nov-13	<11	<8	<8	<8	<13	150	12	<8	<8	<5
	Monthly - Dec 2013	23-Dec-13	<11	<8	<8	<8	<13	410	30	<8	<8	<5
	Monthly - Jan 2014	16-Jan-14	<11	<8	<8	<8	<13	450	31	<8	<8	<5

Notes:

< Less than the laboratory reporting limit shown

Definitions

ft bgs	feet below ground surface
CT	carbon tetrachloride
cis-1,2-DCE	cis-1,2-dichloroethene
1,1-DCA	1,1-dichloroethane
1,2-DCA	1,2-dichloroethane
1,1-DCE	1,1-dichloroethene
µg/m ³	micrograms per cubic meter
PCE	tetrachloroethene
trans-1,2-DCE	trans-1,2-dichloroethene
1,1,1-TCA	1,1,1-trichloroethane
TCE	trichloroethene
VC	vinyl chloride
VOCs	volatile organic compounds

**TABLE 7A
EISB FULL SCALE DESIGN PARAMETERS FOR OPTION 1
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey**

Design Basis		Parameter	Value	Comments
Design Parameters for Each Injection Well		Radius of Influence (ft)	15	based on EISB pilot test
		Thickness of amendment zone (ft)	30	based on site data (Figure 9)
		Target Injection Flow Rate (GPM)	3	based on EISB pilot test
		Total volume injected (G)	35,600	Volume to reach ROI, using site characteristics calculation based on volume
		Total Injection Time needed for Each Injection Well (h)	198	
		Electron Donor (Emulsified Vegetable Oil as % w/w)	1%	
		Total Litres of EVO required (L) per well	2,695	
		Total Kg of EVO required (Kg) per well	2,668	
Target Treatment Area		Width of Treatment Zone (ft)	300	based on site data (Figure 9)
		Length of Treatment Zone (ft)	400	based on site data (Figure 9)
		Porosity	0.25	estimate based on site data
		Total Target Treatment Areas (ft ²)	120,000	
		Approximate Total Volume of Groundwater in Target Treatment Area (ft ³)	900,000	
Option 1 Enplace Treatment Zone: Injection Wells	Minimum and Maximum Design Options	Remedy Time (y)	10	Ten year remedy
		Minimum Ambient Linear Groundwater Velocity (ft/day)	0.01	non- pumping condition as calculated from pilot test
		Distance between Injection Well Rows	37	calculation based on volume
		Number of Rows	11	configuration not practical to implement
		Maximum Ambient Linear Groundwater Velocity (ft/day)	0.14	non- pumping condition as calculated from pilot test
		Distance between Injection Well Rows	511.35	calculation based on volume
	Selected Design	Number of Rows	1	unlikley to attain GWIIA standards
		Ambient Linear Groundwater Velocity As Designed (ft/day)	0.015	A single row of injection wells may not be able to treat the entire groundwater volume when distribution, mixing, retardation and heterogeneity all affect electron donor contact time. Eleven injection well rows is not practical to implement based on surface and subsurface structures, property access etc. Based on professional judgement a design between the minimum and maximum was selected. The distance between injection well rows is based on the travel distance over a remedy time of 10 years. The number of injection well rows is based on the target treatment area length of 400 ft and the row spacing of 55 feet. The 10 injection wells per row is based on the ROI of 15 ft and the target treatment zone width of 300 ft. This places each injection well approximately 30 feet apart in each row.
		Distance between Injection Well Rows	55	
		Number of Rows	7	
		Number of Injection wells per Row	10	
		Total number of Injection wells for Option 1	70	
		Total volume injected per injection event (G)	2,492,000	
		Volume of EVO required per injection event (L)	188,650	
		Number of injection events to reach GWIIA standards	3	
		Total volume to be injected to reach GW2A standards for Option 1 remedy (G)	7,476,000	
		Total volume EVO required to reach GW2A standards for Option 1 remedy (L)	565,950	

Notes:
Definitions
EVO emulsified vegetable oil
ft feet
ft² square feet
ft³ cubic feet
ft/day feet per day
GPM gallons per minute
G gallons
h hours
L liter
Kg kilogram
y year
GWIIA New Jersey Class IIA Groundwater Standard
% w/w percentage weight by weight

TABLE 7B
EISB FULL SCALE DESIGN PARAMETERS FOR OPTION 2
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

Design Basis	Parameter	Value	Comments
Design Parameters for Each Injection Well	Radius of Influence (ft)	10	based on EISB pilot test
	Thickness of amendment zone (ft)	30	based on site data (Figure 9)
	Target Injection Flow Rate (GPM)	1.5	based on EISB pilot test
	Minimum volume to inject (G)	17,800	minimum volume to reach ROI, using site characteristics
	Total Injection Time needed for Each Injection Well (h)	198	calculation based on volume
	Electron Donor (EVO as % w/w)	1%	
	Total Litres of EVO required (L) per well	1,347	
	Total Kg of EVO required (Kg) per well	1,334	
Target Treatment Area	Width of Treatment Zone (ft)	300	based on site data (Figure 9)
	Length of Treatment Zone (ft)	400	based on site data (Figure 9)
	Porosity	0.25	estimate based on site data
	Total Target Treatment Areas (ft ²)	120,000	
	Approximate Total Volume of Groundwater in Target Treatment Area (ft ³)	900,000	
Option 2 Recirculation Loops	Remedy Time (y)	5	Five year remedy
	Observed Pumped Linear Groundwater Velocity (ft/day)	0.58	Observed average between bromide and hydraulic gradient data, 50 ft loop.
	Estimated pore volume flushes to reach GWIIA standards	10	During the pilot test about 2 pore volume flushes may have been achieved. This is modest and therefore a conservative estimate
	Target distance between recirculation loops (ft)	100	of 10 pore volume flushes is used for this forced gradient evaluation. Two injection wells per extraction well are used here to
	Target Minimum Number Pore volume flushes in 5 years	10	obtain better coverage of donor to assist in achieving the GWIIA standards. It is unrealistic to operate each injection well
	Number of recirculation rows	4	continuously. The design would inject donor for several weeks to establish donor zones and then the system would be shut down
	Number of injection wells per extraction well	2	or just recirculate groundwater for gradient. Donor would be replenished as TOC is depleted but typically this would be annually.
	Number of injection wells per row	16	The 16 injection wells and 8 extraction wells per row is based on the ROI of 10 ft and the target treatment zone width of 300 ft.
	Number of extraction wells per row	8	
	Total number of injection wells for Option 2	64	This places each injection well approximately 20 feet apart and each extraction well approximately 40 feet apart for each row.
	Total number of extraction wells for Option 2	32	The number of recirculation rows is based on a target treatment length of 400 ft and recirculation row spacing of 50 feet. The
	Target extraction rate (GPM)	3	operation time is based on the target injection rate of 1.5 GPM per injection well (3 GPM extraction rate). Well maintenance for
Estimated Treatment time to reach GWIIA standards (years)	5	fouling and maintenance will be required.	

Notes:

Definitions

EVO	emulsified vegetable oil
ft	feet
ft ²	square feet
ft ³	cubic feet
ft/day	feet per day
GPM	gallons per minute
G	gallons
h	hours
L	liter
Kg	kilogram
ROI	radius of influence
y	year
GWIIA	New Jersey Class IIA Groundwater Standard
% w/w	percentage weight by weight

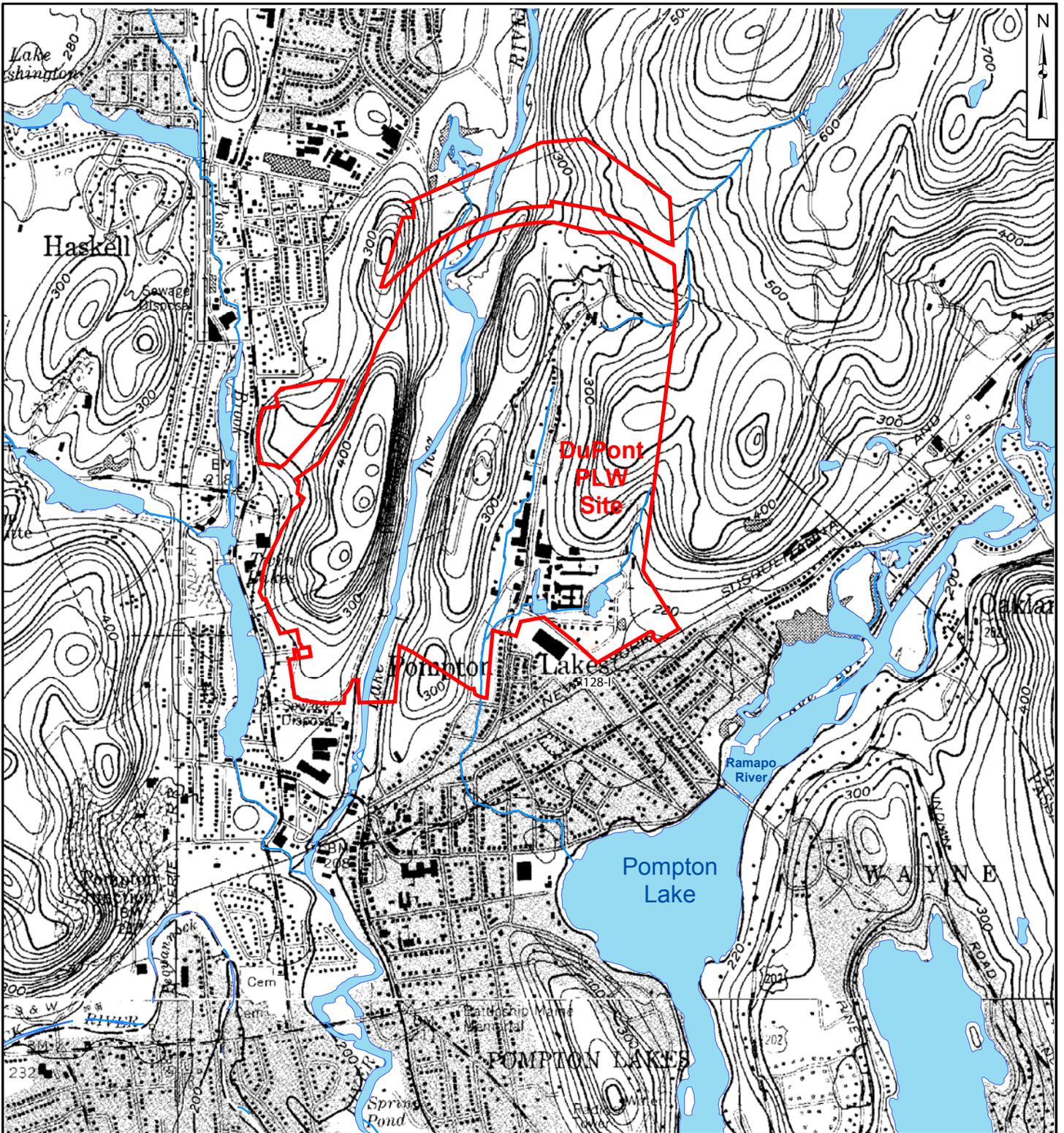
TABLE 8: FULL SCALE EISB OPTIONS - SITE SPECIFIC DESIGN ELEMENTS
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

Conceptual Approach	Design Elements to Consider	Site Specific Challenges to Consider for Design Element
<p>Option 1: Emplace Treatment Zone: Injection Wells</p> <ul style="list-style-type: none"> - Design Parameters specified in Table 7a. Estimated duration of activity 10 years with up to 3 donor injection events to reach target VOC reduction. - Biofouling control/well rehabilitation maybe required for subsequent injection events. - Bioaugmentation would be included in design. - Install monitoring well(s) downgradient of injection wells to verify remedy effectiveness. - Collect groundwater samples quarterly from downgradient locations. 	<ul style="list-style-type: none"> - Achievable Injection ROI - Based on pilot data 15 ft would be upper bound. Large injection volume for each location. 	<p>Well installations will be limited/restricted by subsurface utilities and existing residential structures.</p> <p>Property access from home owners for installation, injections, and monitoring needs to be obtained.</p> <p>If property access is limited then ability to create effective coverage may not be achievable.</p> <p>Large injection volume based on a target injection rate of 3 GPM, if this flow rate is not achievable the ROI distance would need to be decreased.</p>
	<ul style="list-style-type: none"> -VOCs are in the lower K zone and Injection Wells will need to target this area 	<p>Direct Push points unlikely to be successful at targeting lower K zone. Direct push injections would need high pressure to inject quickly. This would then result in short-circuiting to higher k shallow zone. Therefore permanent wells screened only in target zone with lower pressure injection approach is more likely to achieve injection to target zone.</p>
	<ul style="list-style-type: none"> - Existing infrastructure 	<p>Drill rig access around existing power lines and trees may impact ability to install injection wells.</p> <p>Surface structures (residential properties, streets, sidewalks)</p> <p>Obtaining property access</p> <p>Subsurface utilities in streets limits areas to install wells.</p>
	<ul style="list-style-type: none"> -Injections would require dilution water, tank for EVO and associated injection equipment 	<p>Property access required to access residential properties</p> <p>Injection volumes to achieve ROI will be at least 100 injection hours per well which would require the design to have a series of injection wells piped through a vault system.</p> <p>If injection vaults are not used the injection limited to the hours of 8 am to 4 pm and would require demobilization each day. This would require a significantly longer injection period due to set up and take down times each day.</p> <p>Fouling of the intermedat zone could cause short circuiting of amendments to the upper aquifer during injection</p> <p>Rehabilitation of injection wells may be required.</p>
	<ul style="list-style-type: none"> -Treatment duration will be years so design should be robust to account for repeat injections 	<p>Given low ambient groundwater velocity may need up to 5 re-injections to treat residual mass of VOCs.</p>
	<ul style="list-style-type: none"> -Need to optimize contact time 	<p>Preferential flowpaths may develop over repeat injection and this could decrease contact of donor with residual contaminants and limit effectiveness</p>

TABLE 8: FULL SCALE EISB OPTIONS - SITE SPECIFIC DESIGN ELEMENTS
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

Conceptual Approach	Design Elements to Consider	Site Specific Challenges to Consider for Design Element
<p><u>Option 2: Recirculation Loops</u></p> <ul style="list-style-type: none"> - Install multiple recirculation systems to disribute electron donor. Operate intermittently to generate bioactive zone. - Design parameters specified in Table 7b. -Inject donor yearly for a period of 5 years. Estimated duration of activity to achieve Target reduction would be 5 years. - Operate to inject target then allow ambient groundwater velocity to transport EVO/allow for biodegradation. - Biofouling control will be necessary based on pilot study observations. - Bioaugmentation would be included in design. - Collect groundwater samples from extraction well monthly and quarterly from other locations. - Reinject EVO as necessary. 	<p>- Achievable Injection ROI - Based on pilot data this should be about 15 ft</p>	<p>Well installations will be limited/restricted by subsurface utilities and existing residential structures.</p> <p>Multiple power drops required</p> <p>Property access from home owners for installation, injections, and monitoring needs to be obtained.</p> <p>If property access is limited then ability to create effective bioactive zone may not be achievable</p>
	<p>-VOCs are in the lower K zone and need to target this area</p>	<p>Direct Push points unlikely to be successful at targeting lower K zone. Direct push injections would need high pressure to inject quickly. This would then result in short-circuiting to higher k shallow zone. Therefore permanent wells screened only in target zone with lower pressure injection approach is more likely to achieve injection to target zone.</p>
	<p>- Significant existing infrastructure to work around</p>	<p>Power source - additional power drops required</p> <p>Drill rig access around existing power lines and trees may impact ability to install locations</p> <p>Surface structures (residential properties, streets, sidewalks)</p> <p>Obtaining property access</p> <p>Subsurface utilities in streets limits areas to install wells and trenches between injection/extraction wells</p>
	<p>-Treatment duration will be years so design should be robust to account for repeat injections</p>	<p>Access vaults in multiple locations</p> <p>Requires access to residential properties</p> <p>Access limited between the hours of 8-4 pm</p>
	<p>-Biofouling control</p>	<p>Will need to have biofouling control</p> <p>Frequent rehabilitation (mechanical and chemical) may be necessary</p>
	<p>-Forced gradient to have hydraulic control</p>	<p>Biofouling of formation may decrease extraction capacity and limit effectiveness</p> <p>Frequent rehabilitation (mechanical and chemical) may be necessary</p>
	<p>-Need to optimize contact time</p>	<p>Preferential flowpaths may develop over repeat injection and this could decrease contact of donor with residual contaminants and limit effectiveness</p>

FIGURES

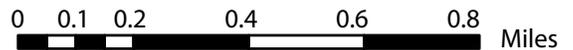


Legend:

- Site Areas
- Well Location

Notes:

Base is portions of the USGS Wanaque and Pompton Plains QUAD.
 Figure from Parsons (2010).



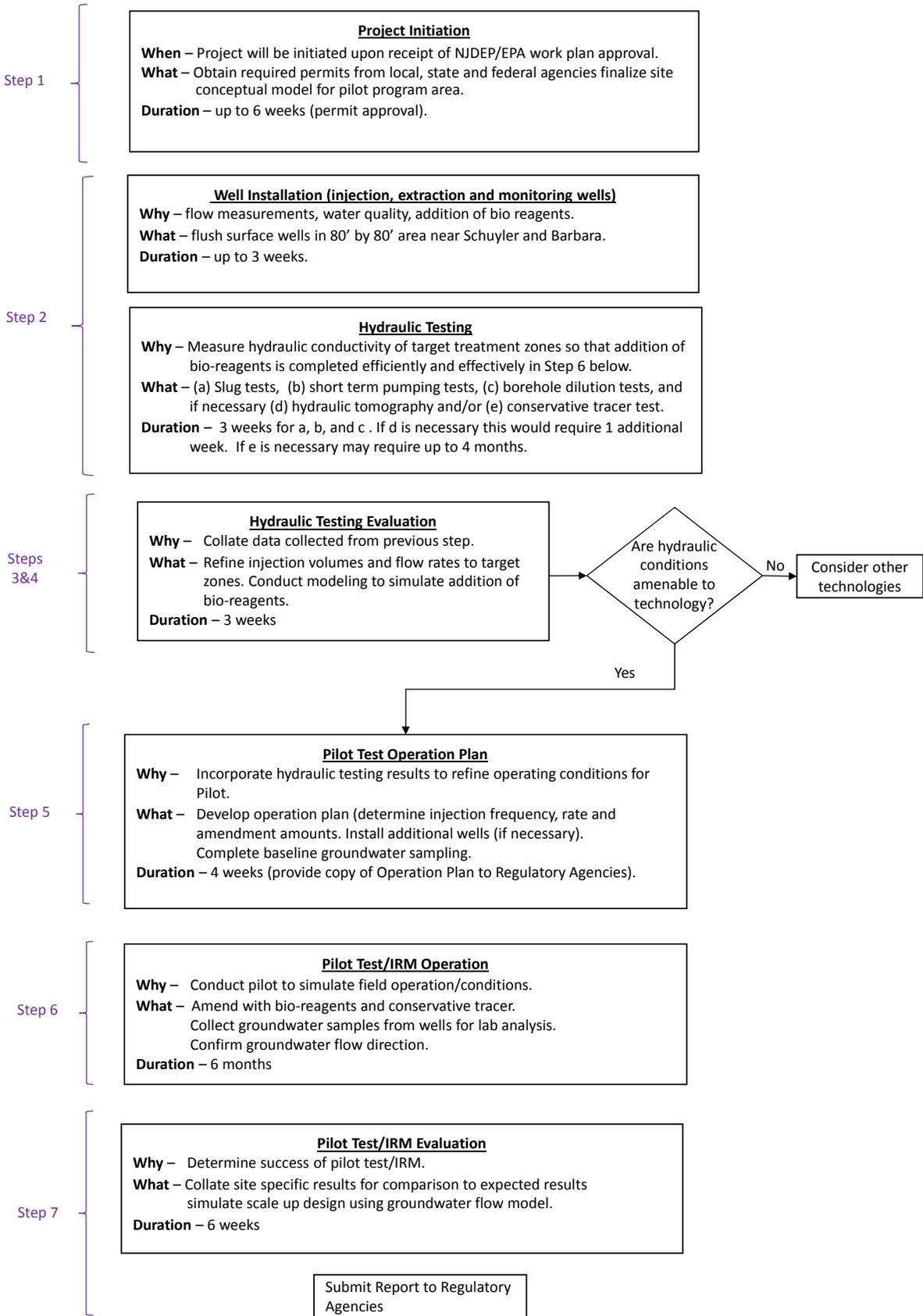
Site Location Map
 DuPont Pompton Lakes Works
 Pompton Lakes, New Jersey

Geosyntec
 consultants

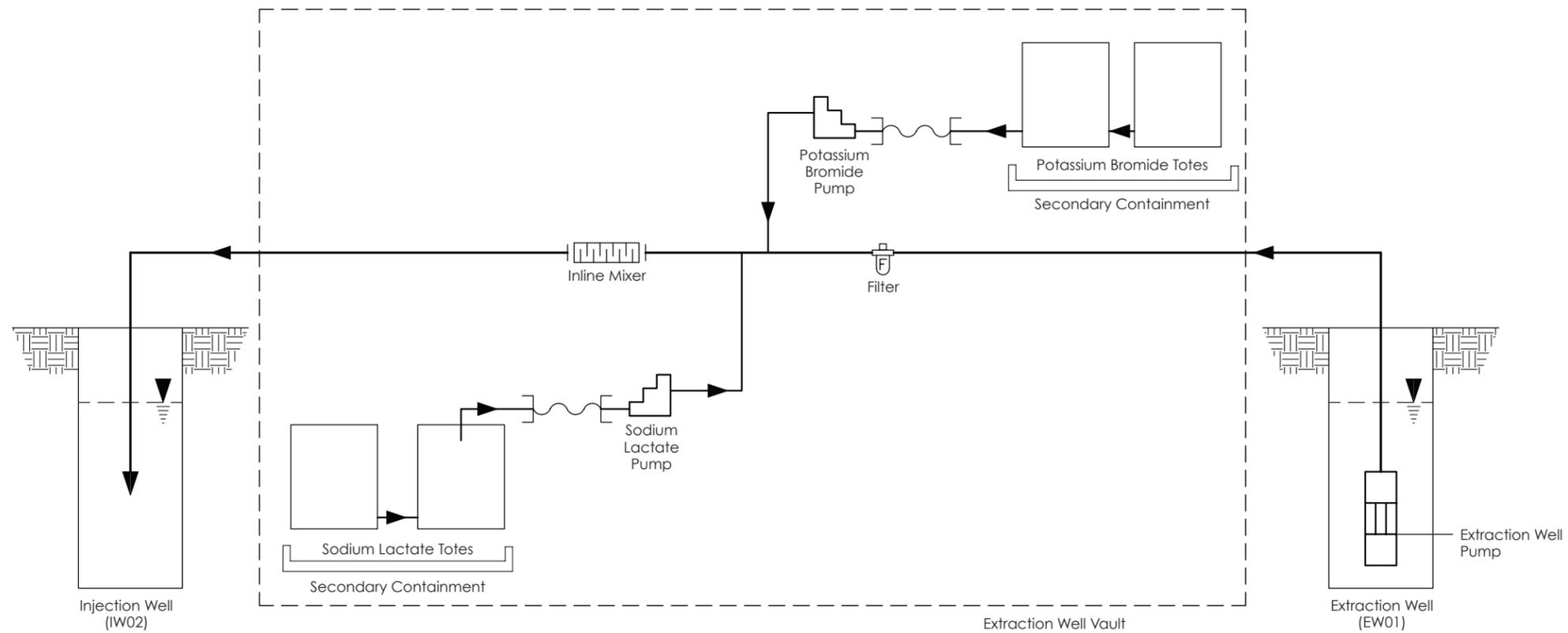
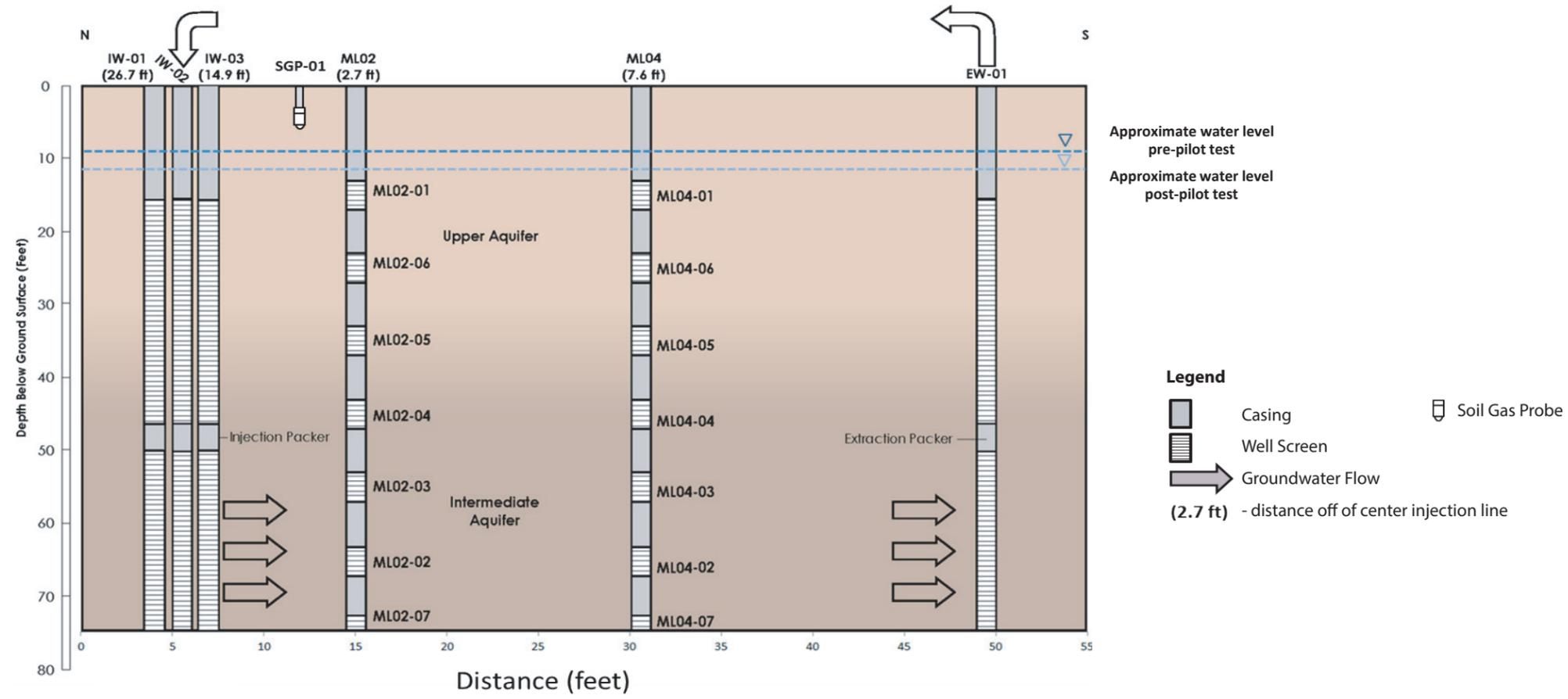
Figure
1

Guelph

April 2014



Notes:
IRM – interim remedial measure

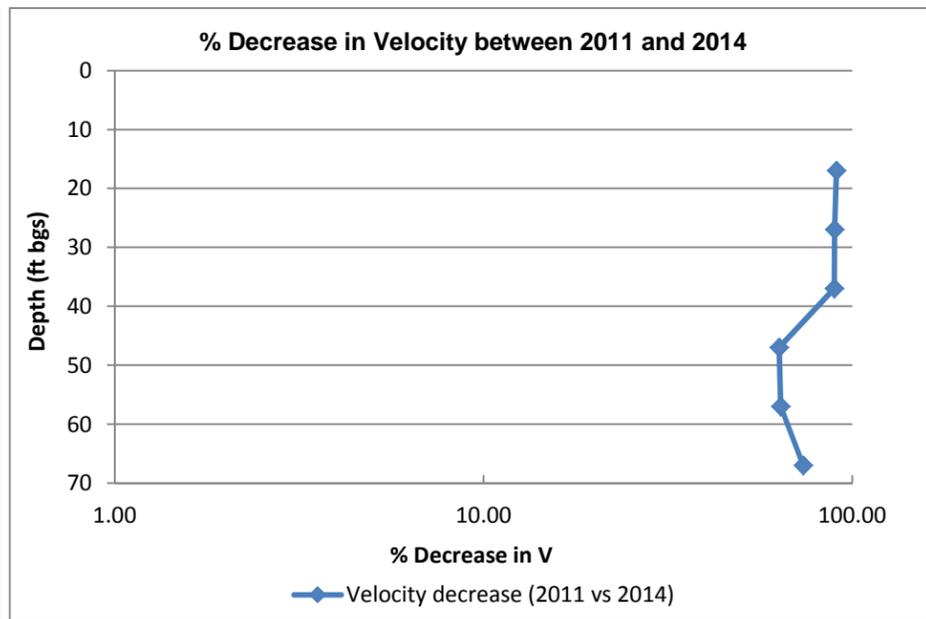
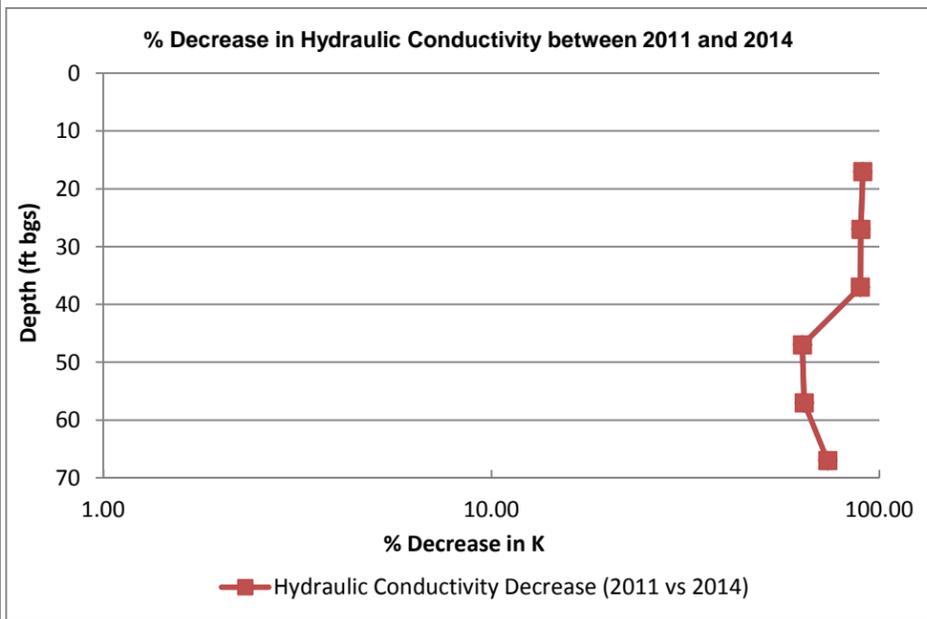
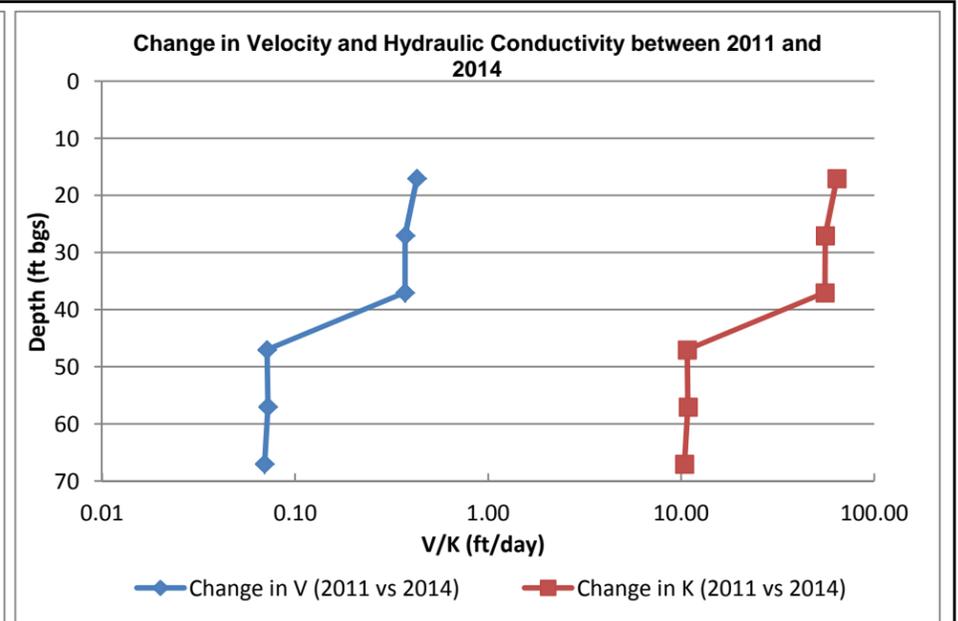
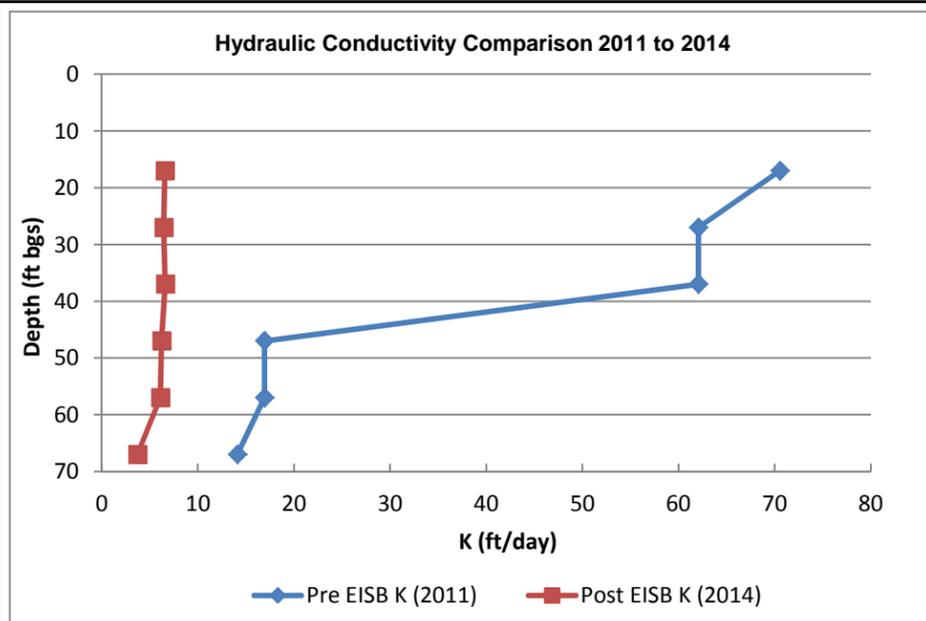
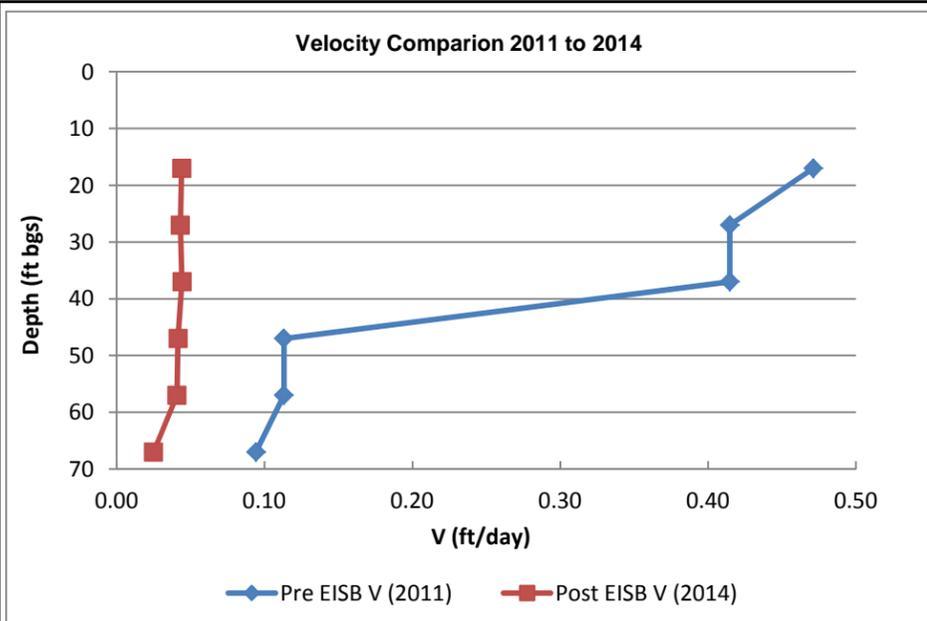


Cross Section and Process Flow Diagram for In-Situ Pilot Study
 DuPont Pompton Lakes Works
 Pompton Lakes, NJ

Geosyntec
 consultants

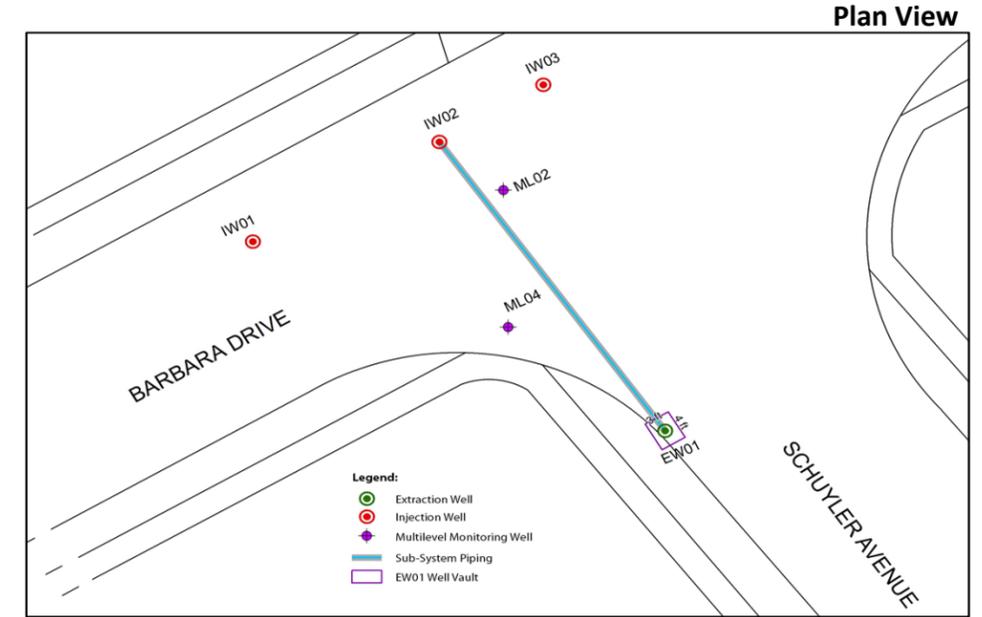
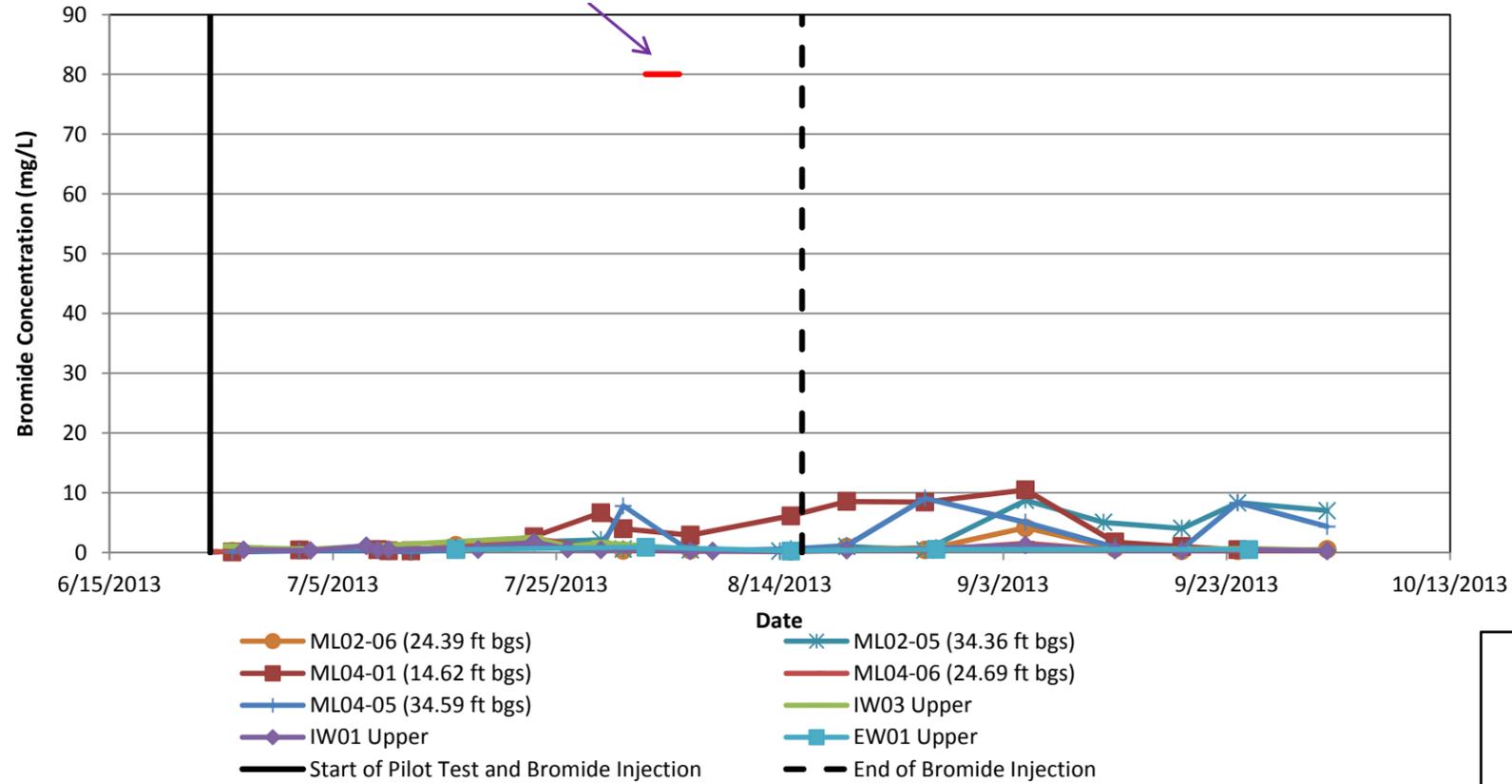
Guelph April 2014

Figure 4

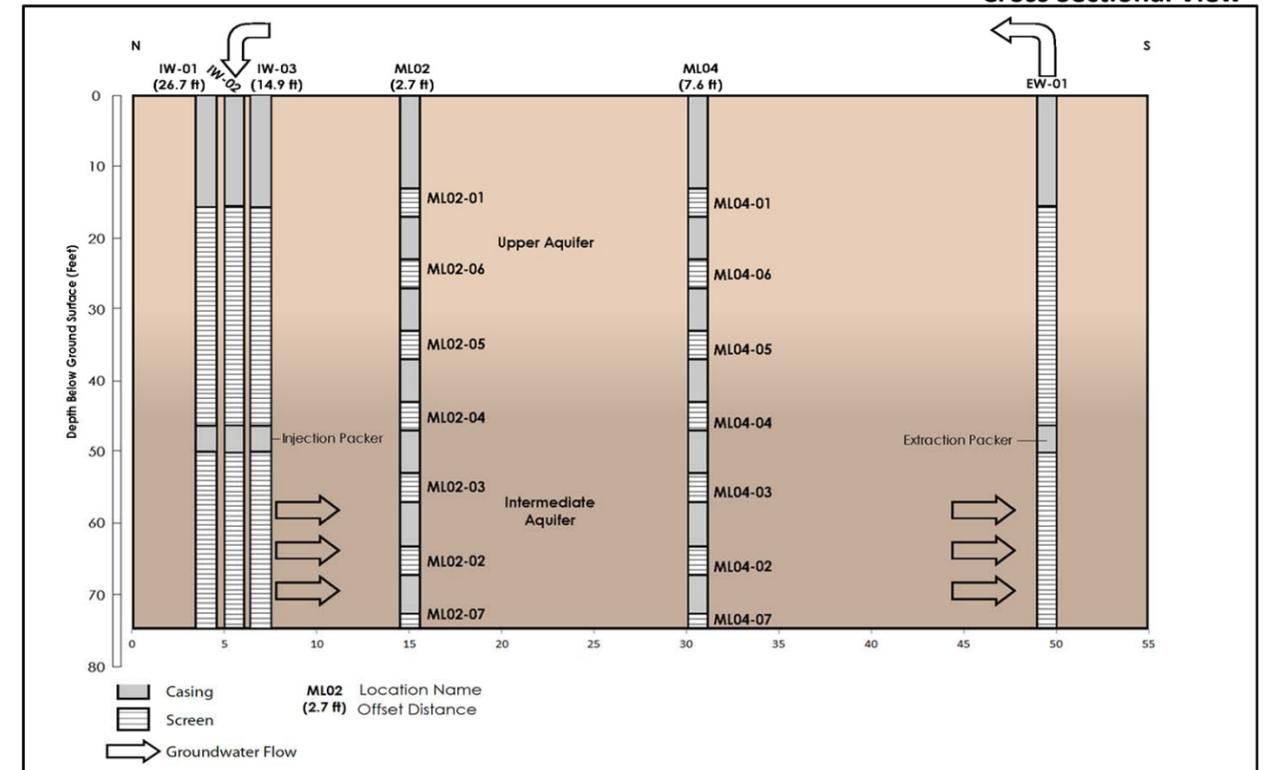


\\Guelph\c1\Data\SRV\Projects\TR052_DuPont_Pompton_Lakes\28_M&NP\Phase 2_EIS\Report\Figures\Figures 5 and 11 v. 17 landscape.ppt no client

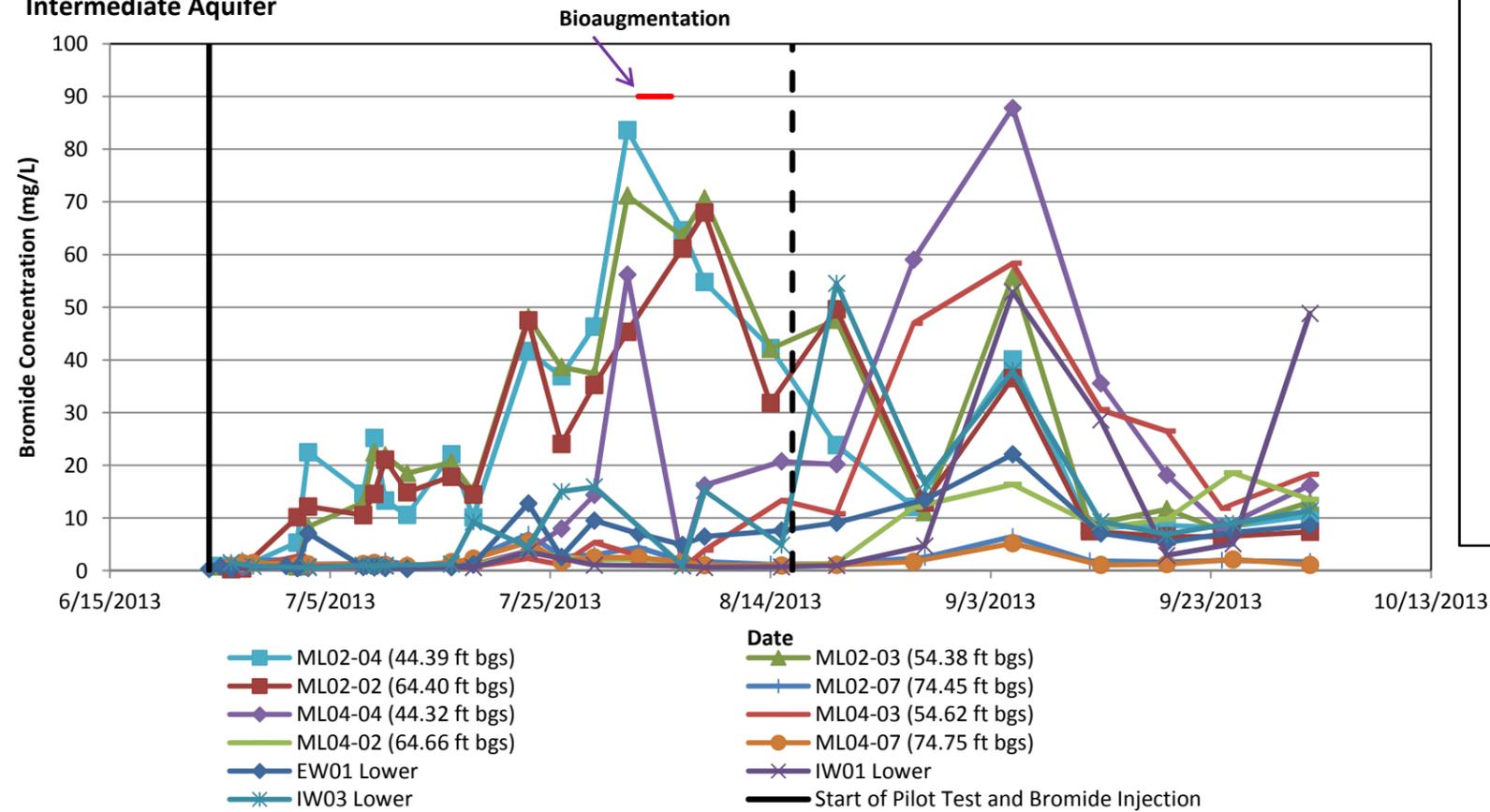
Upper Aquifer



Cross Sectional View



Intermediate Aquifer



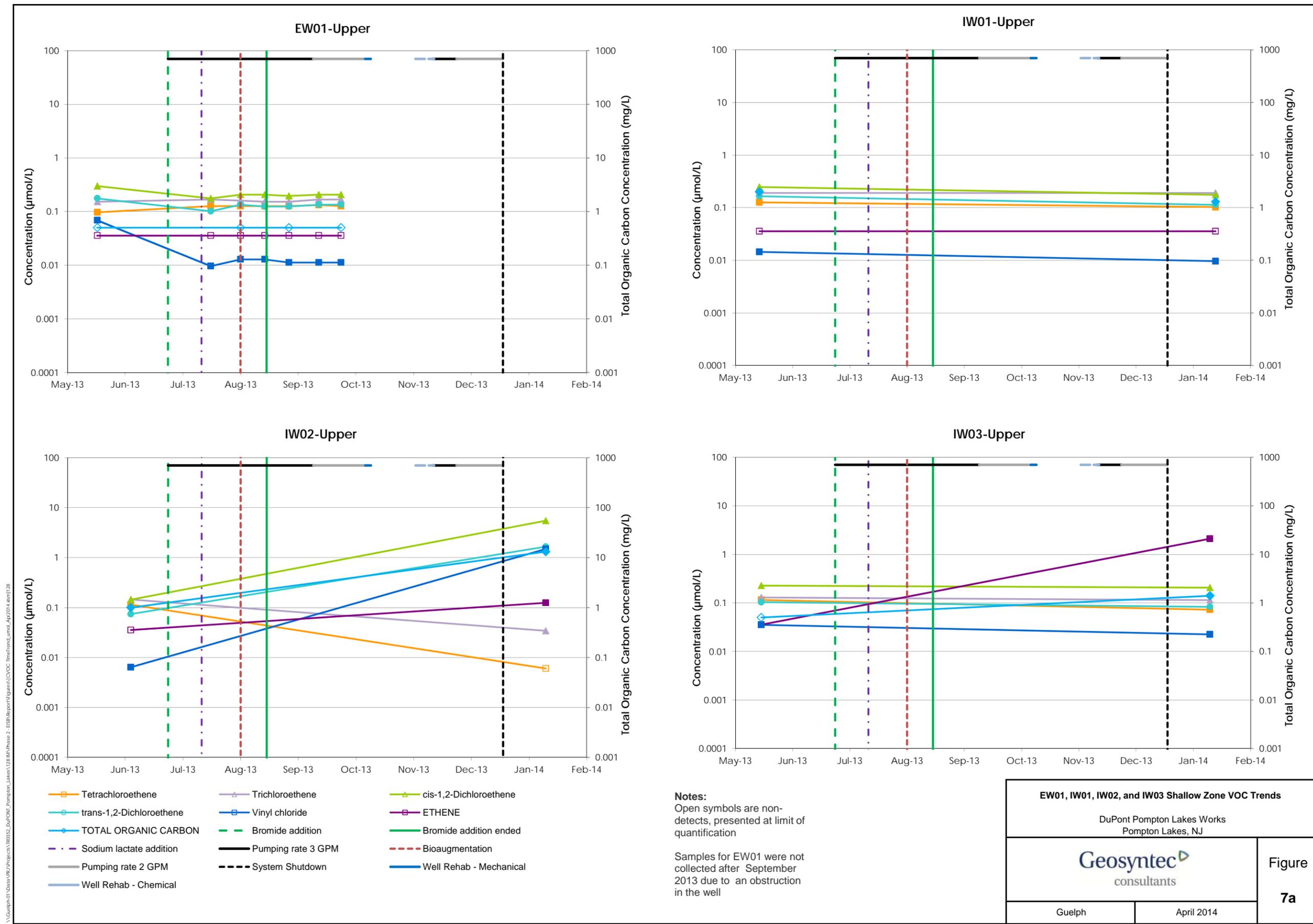
Field Measured Bromide Concentrations - EISB Pilot Study
 DuPont Pompton Lakes Works
 Pompton Lakes, New Jersey

Geosyntec
 consultants

Guelph April-2014

Figure
 6

P:\P10\Projects\108252_DuPont\1_Pompton_Lakes\128\IM\Phase2 - EISB\Operation\Bromide\1_Pompton_Lakes - Tracer Test Br Data_2013_09_30.xlsx\Bromide-Alt



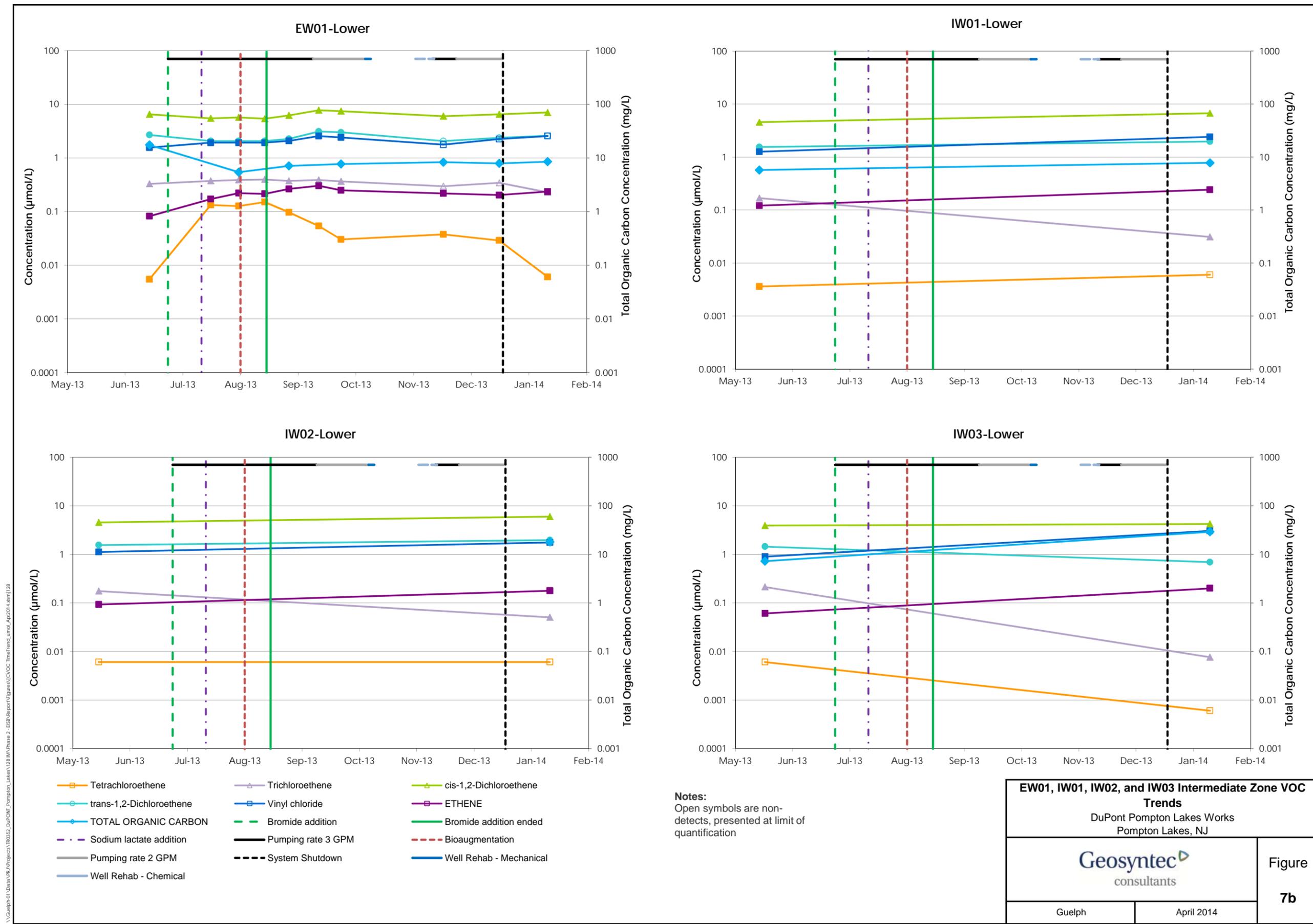
EW01, IW01, IW02, and IW03 Shallow Zone VOC Trends

DuPont Pompton Lakes Works
Pompton Lakes, NJ

Geosyntec
consultants

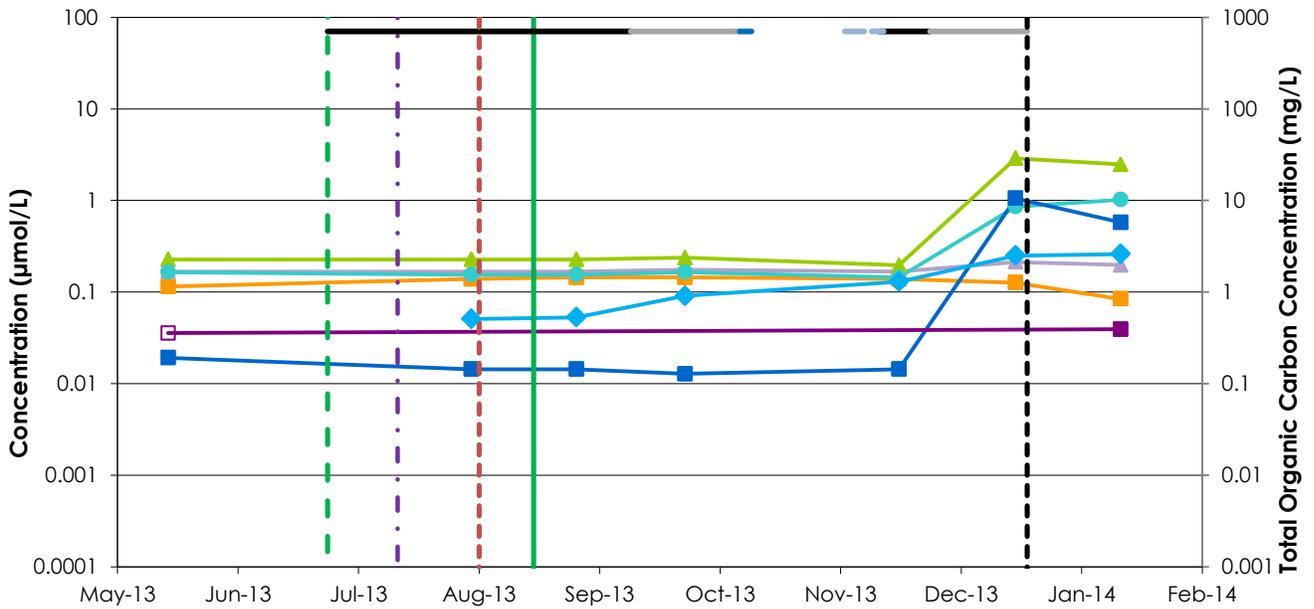
Guelph April 2014

Figure 7a

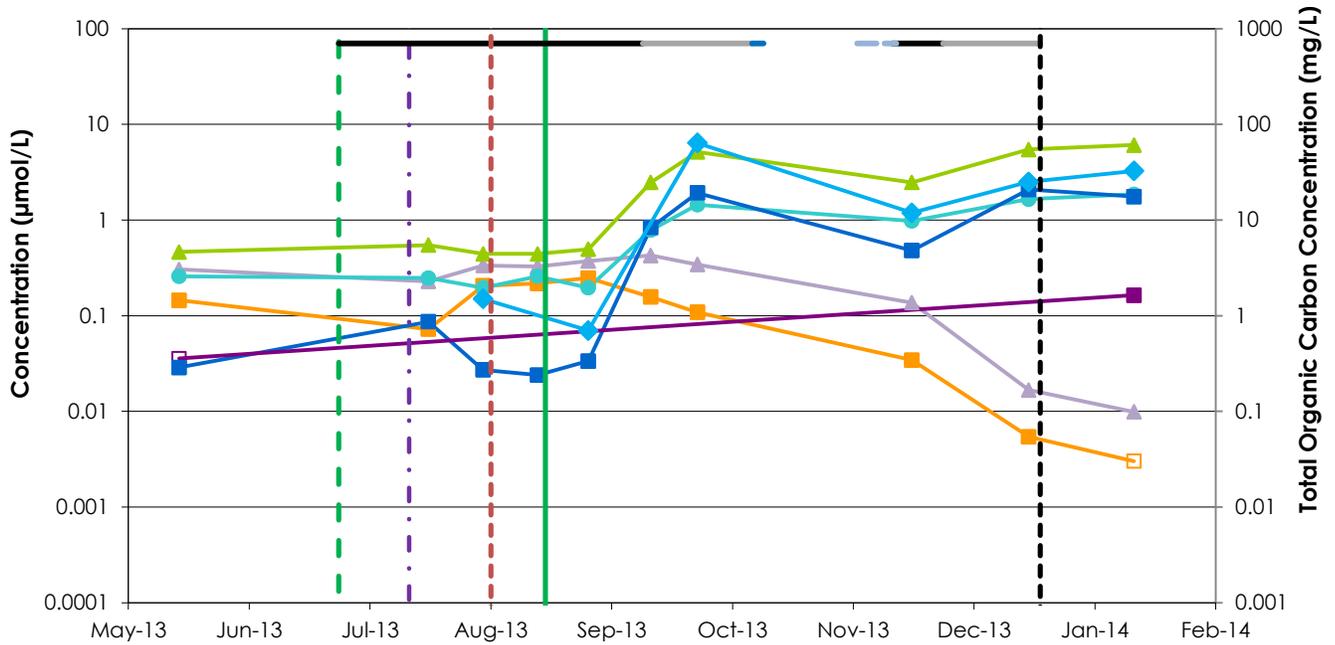


\\Guelph01\Users\VRU\Projects\1703032_DuPontL_PomptonLakes\128\IMA\Phase2_EBR\Report\Figures\CVOC_TimeTrend_Lower_Apr2014.km128

ML02-06



ML02-05



Notes:

Open symbols are non-detects, presented at limit of quantification

*-ML02-01 is hydraulically connected to ML02-02.

Data should not be considered for evaluation.

- Tetrachloroethene
- ▲ Trichloroethene
- ▲ cis-1,2-Dichloroethene
- trans-1,2-Dichloroethene
- Vinyl chloride
- Ethene
- ◆ Total Organic Carbon
- - - Bromide addition
- Bromide addition ended
- · - Sodium lactate addition
- Pumping rate 3 GPM
- - - Bioaugmentation
- Pumping rate 2 GPM
- - - System Shutdown
- Well Rehab - Mechanical
- - - Well Rehab - Chemical

ML02 Shallow VOC Trends

DuPont Pompton Lakes Works
Pompton Lakes, NJ

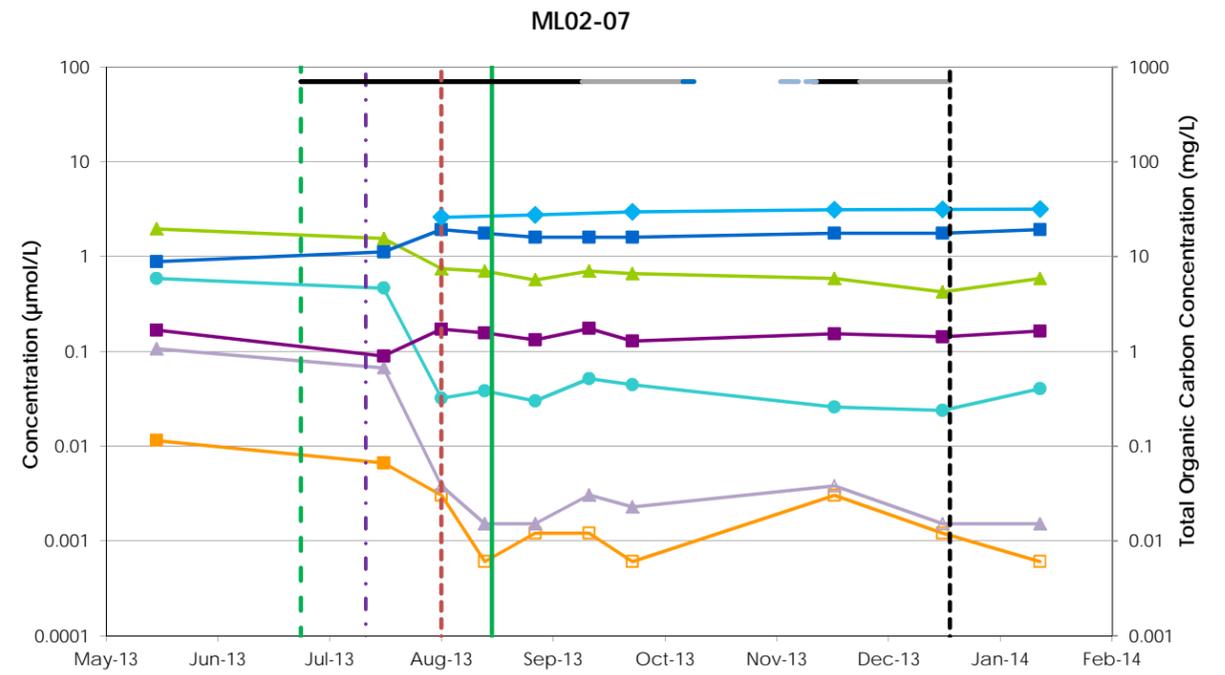
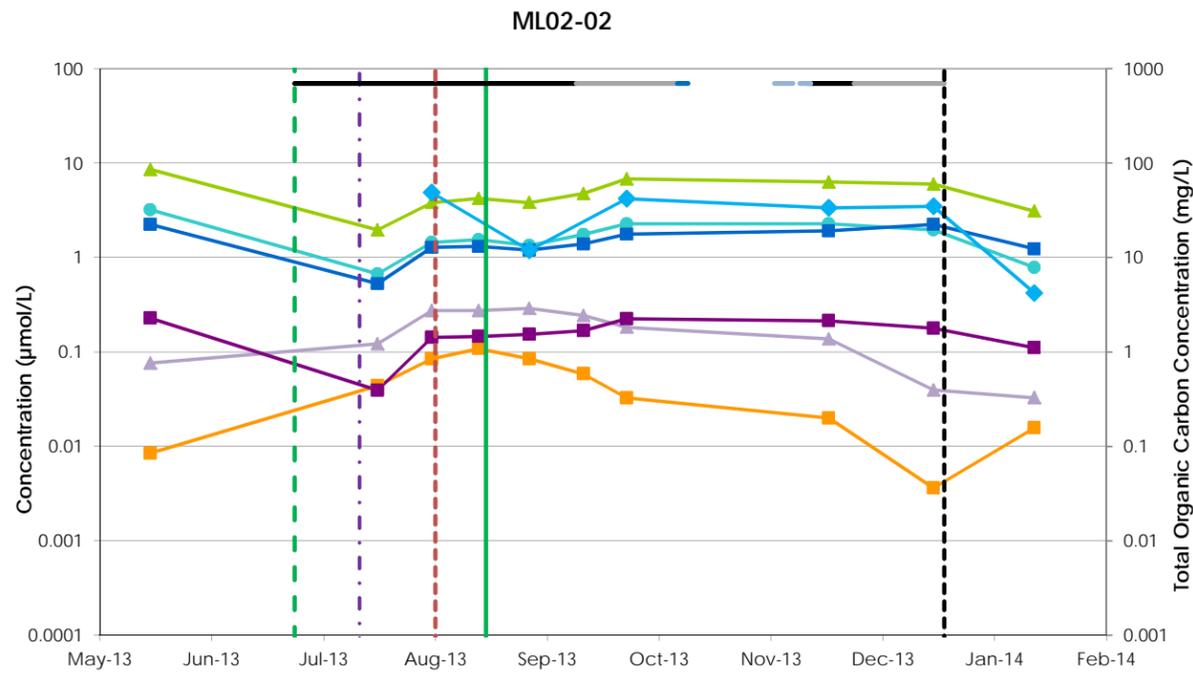
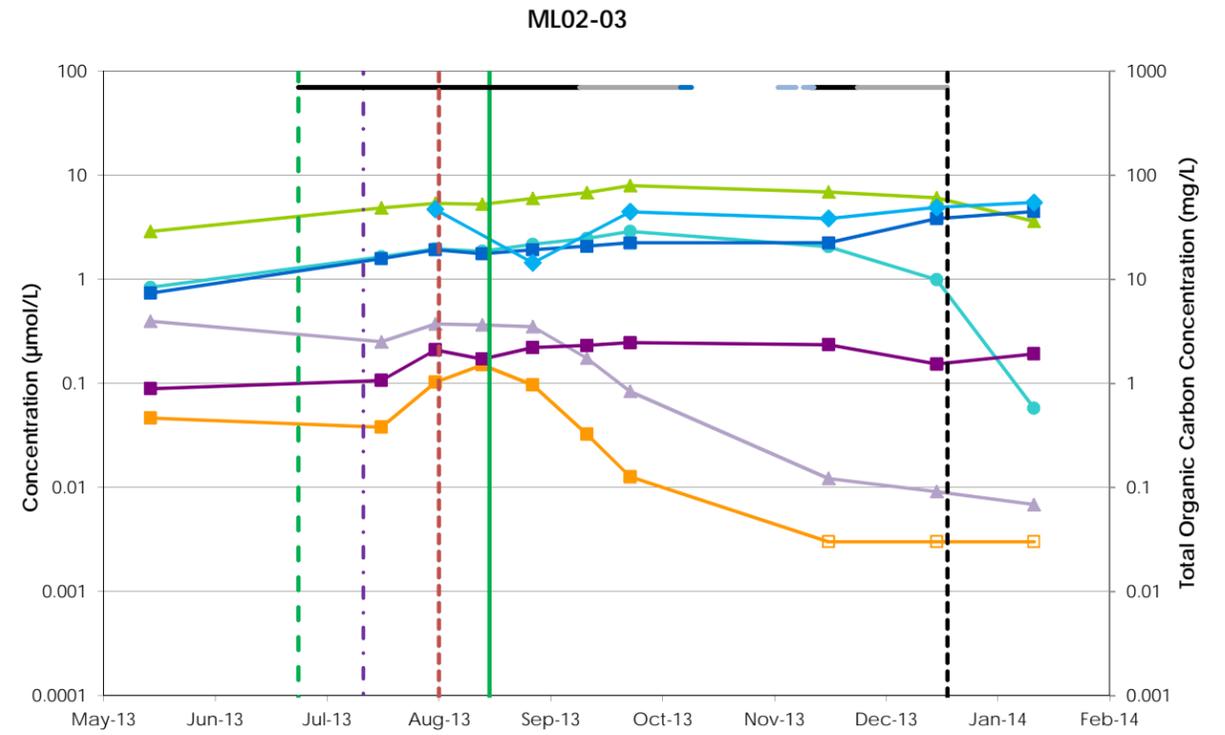
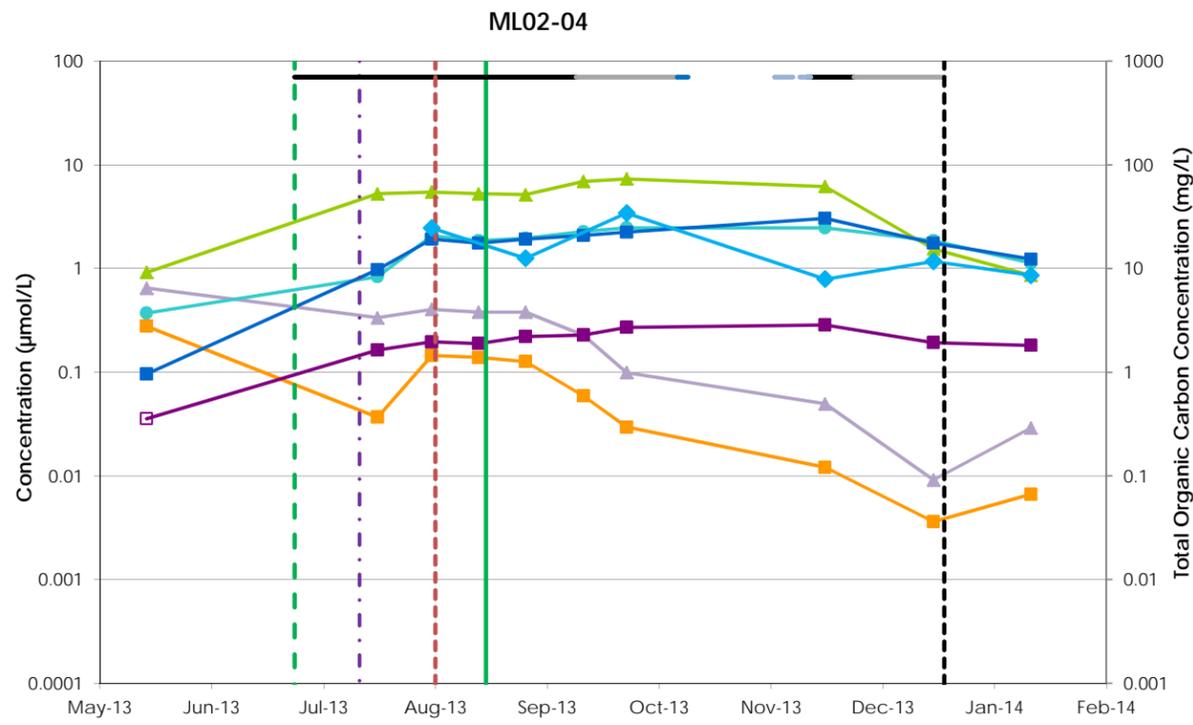


Figure

7c

Guelph

April 2014

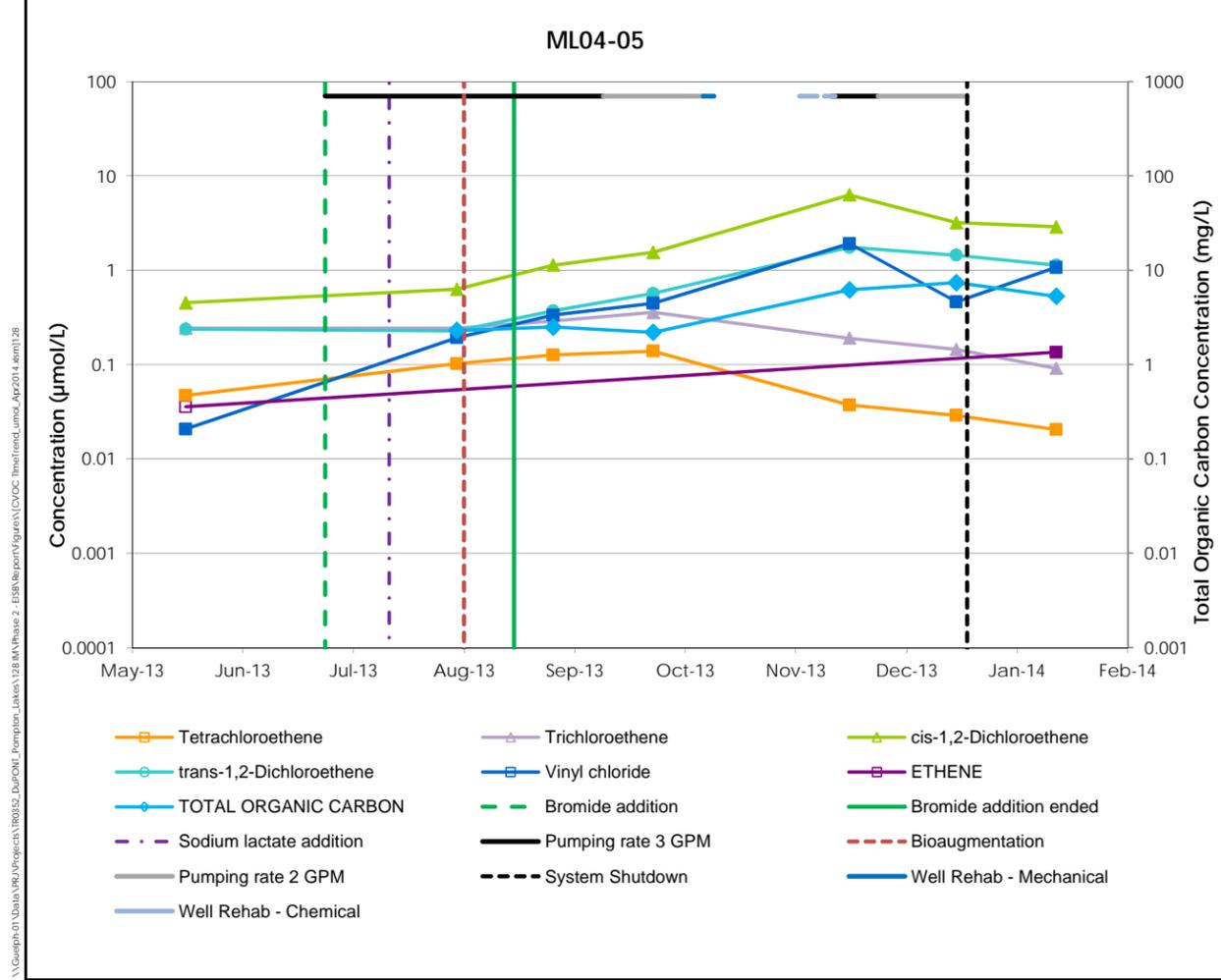
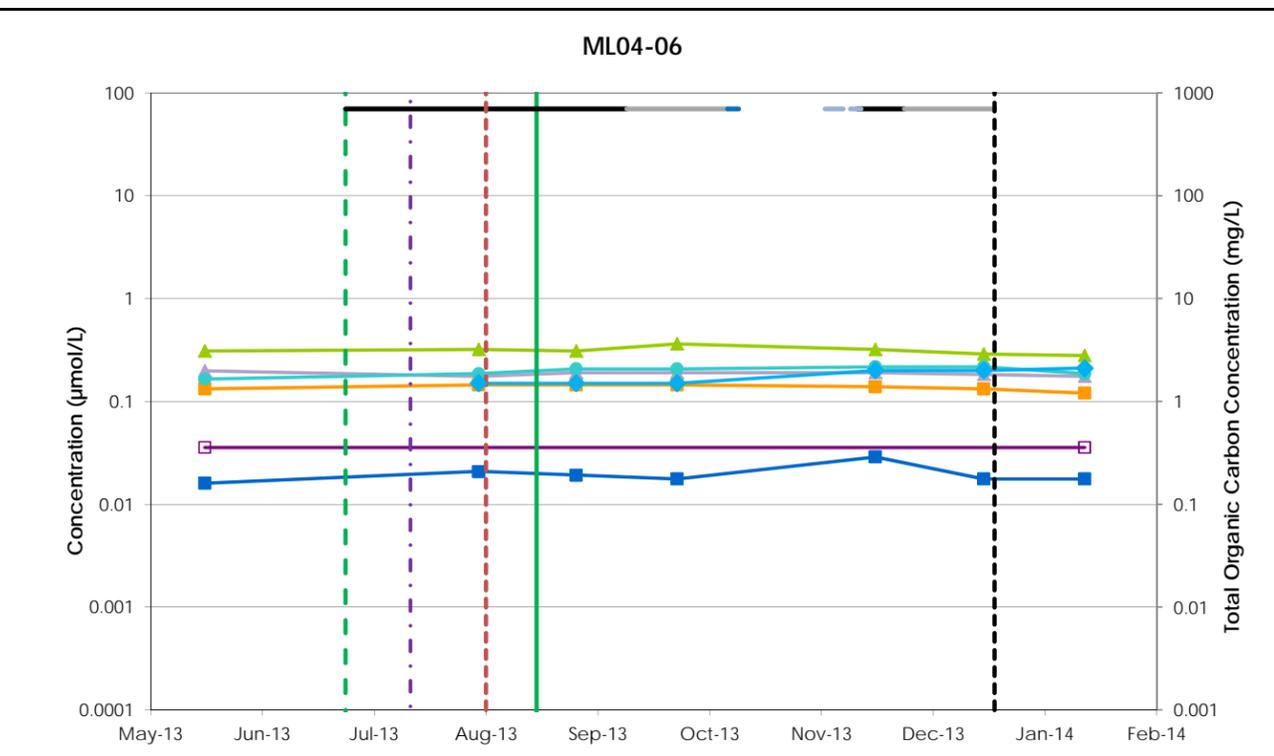
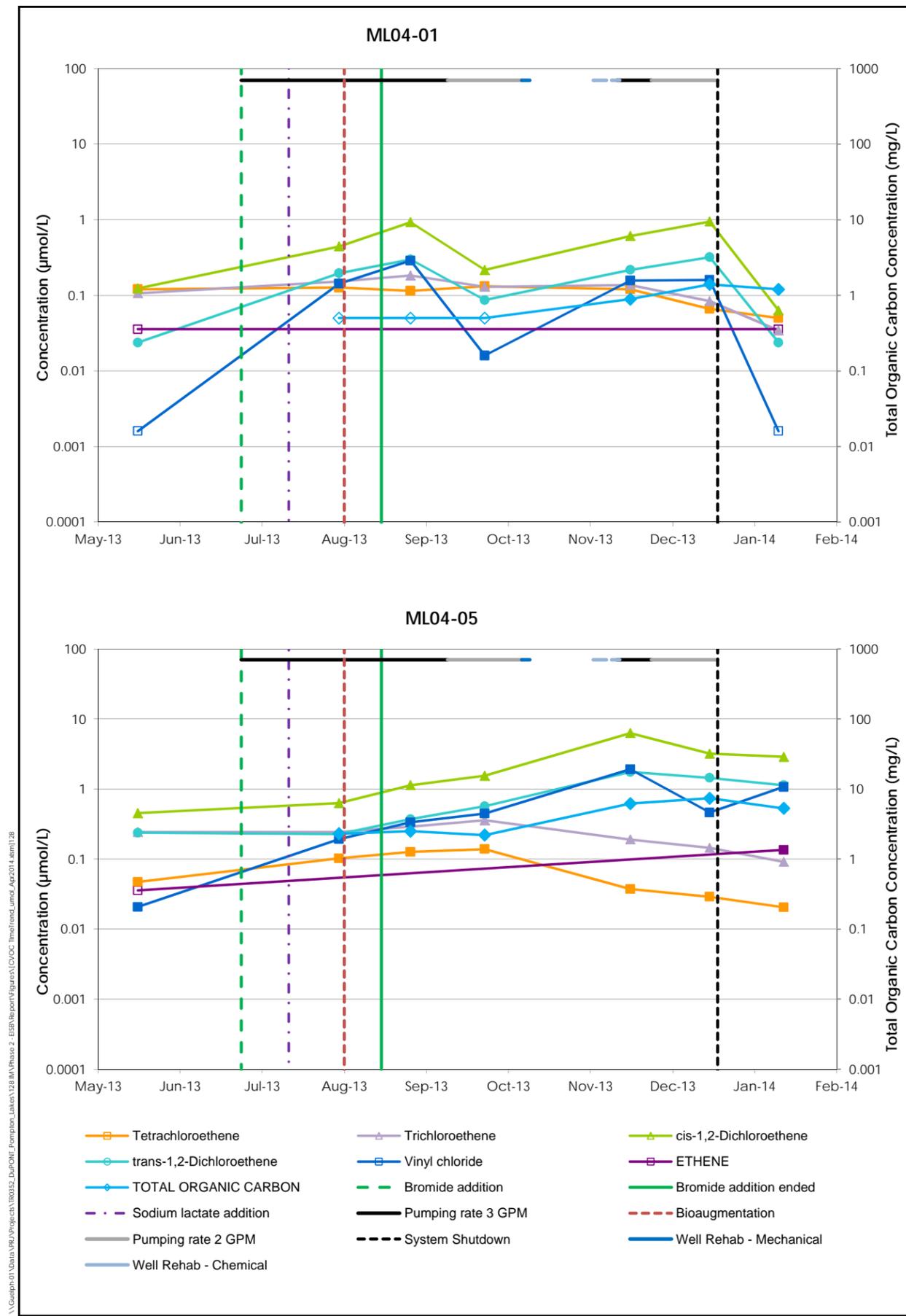


- Tetrachloroethene
- trans-1,2-Dichloroethene
- ◇— TOTAL ORGANIC CARBON
- △— Trichloroethene
- Vinyl chloride
- - - Bromide addition
- · - · Sodium lactate addition
- Pumping rate 2 GPM
- Well Rehab - Chemical
- △— cis-1,2-Dichloroethene
- ETHENE
- Bromide addition ended
- - - Bioaugmentation
- Well Rehab - Mechanical
- - - System Shutdown

Notes:
Open symbols are non-detects, presented at limit of quantification

ML02 Intermediate VOC Trends	
DuPont Pompton Lakes Works Pompton Lakes, NJ	
Guelph	April 2014
Figure 7d	

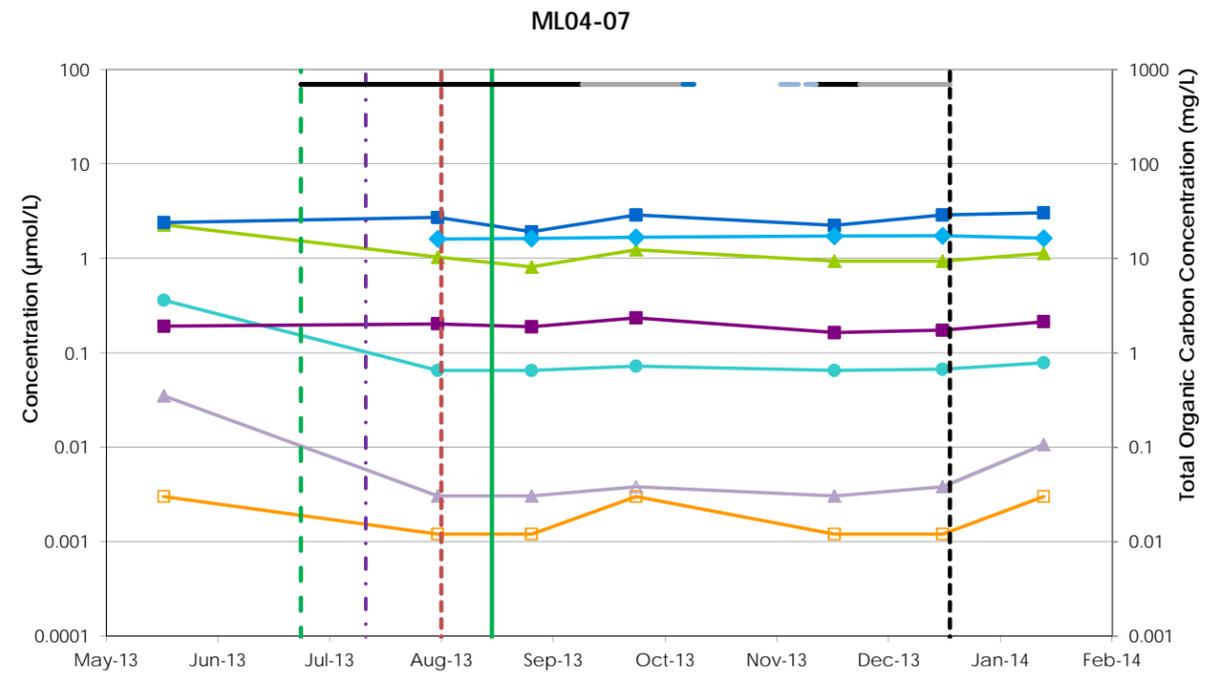
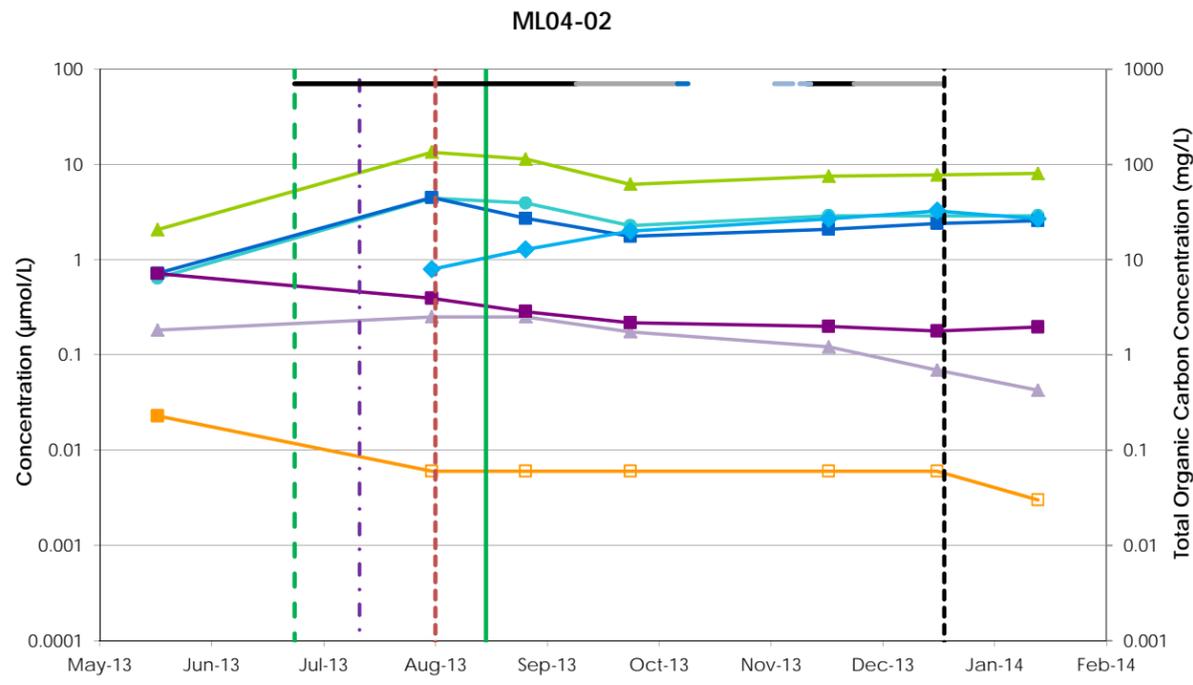
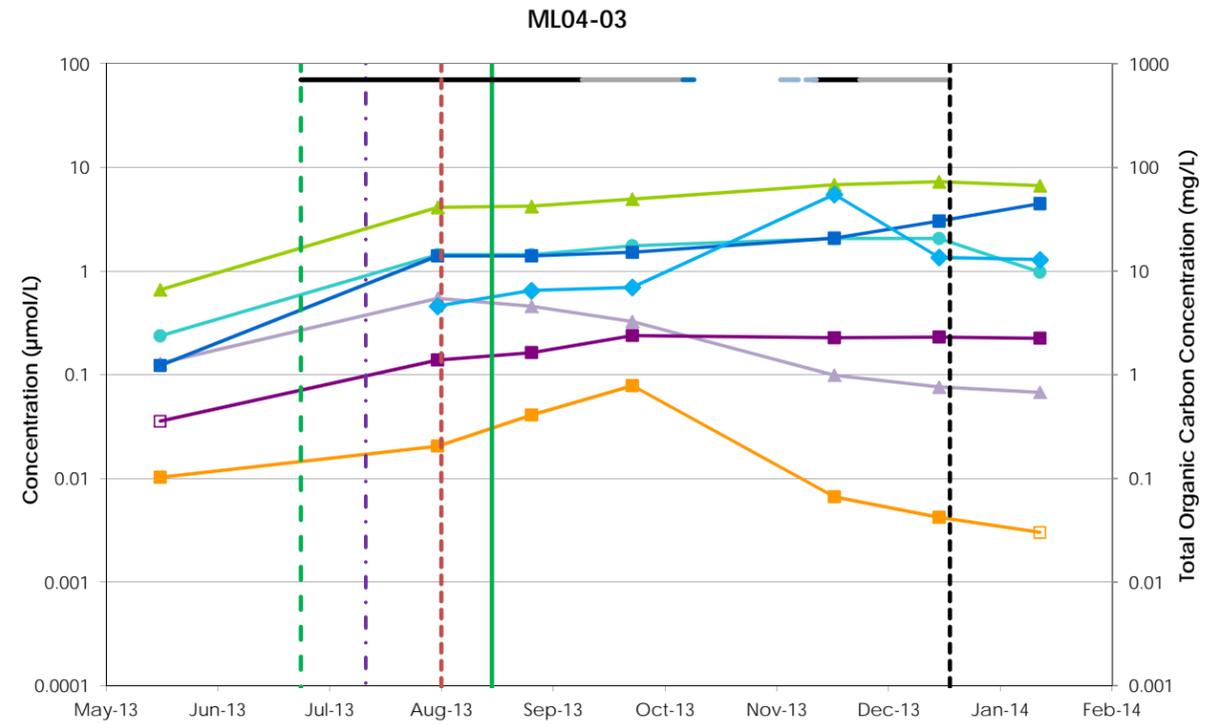
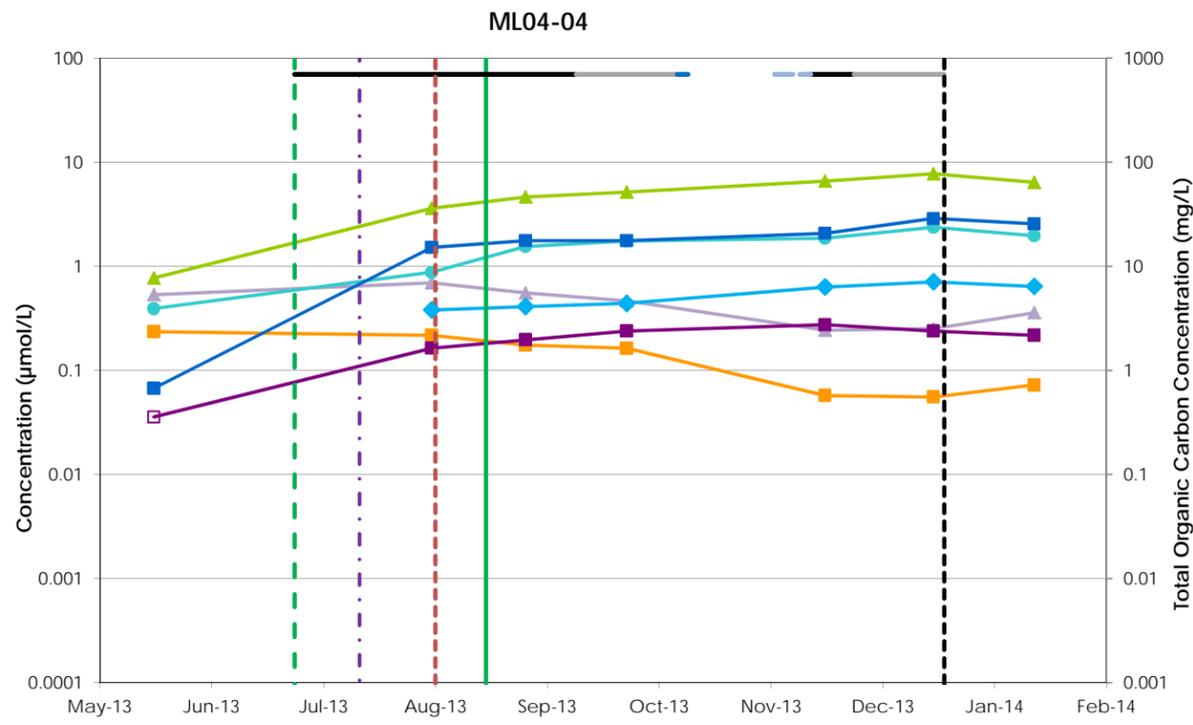
\\Guelph01\Users\VRU\Projects\180302_DuPont_Pompton_Lakes\128\IMA\Phase 2 - ESR\Report\Figures\CVOC_Trend\mml_Apr2014_Rev1128



Notes:
 Open symbols are non-detects, presented at limit of quantification

ML04 Shallow VOC Trends		Figure 7e
DuPont Pompton Lakes Works Pompton Lakes, NJ		
Guelph	April 2014	

\\Guelph01\Users\VRU\Projects\180352_DuPontL_PomptonLakes\128\MA\Phase 2 - ESR\Report\Figures\CVOC_Trend\Figures_Apr2014.km128

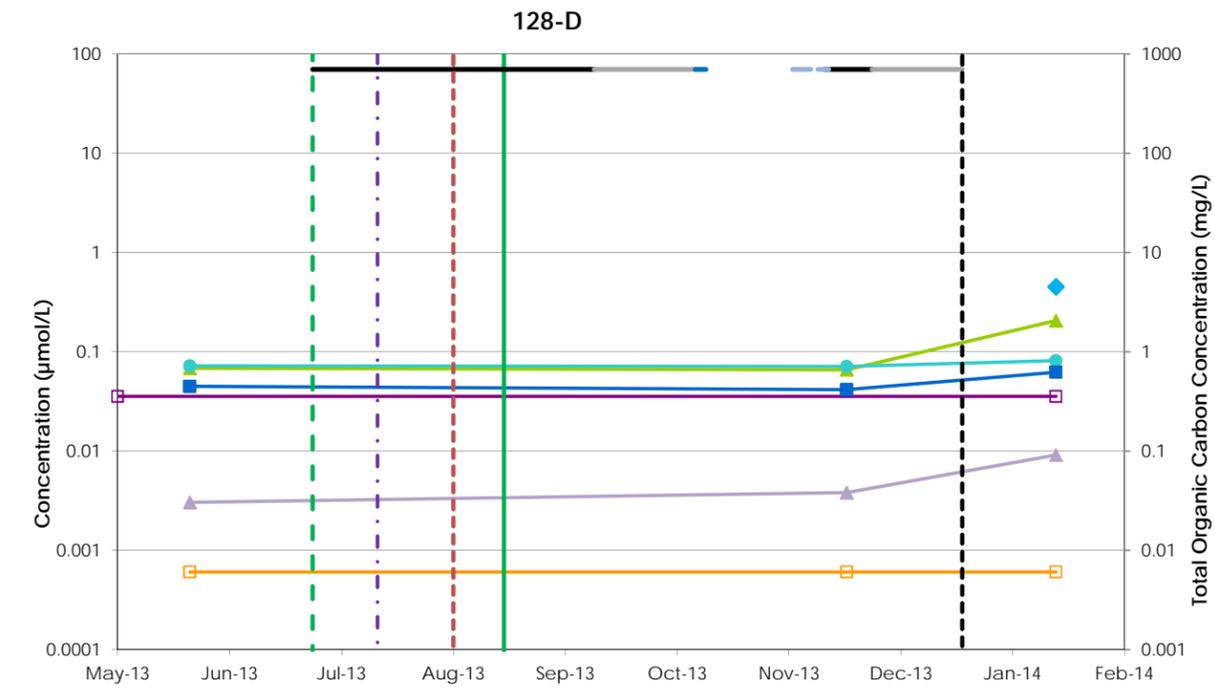
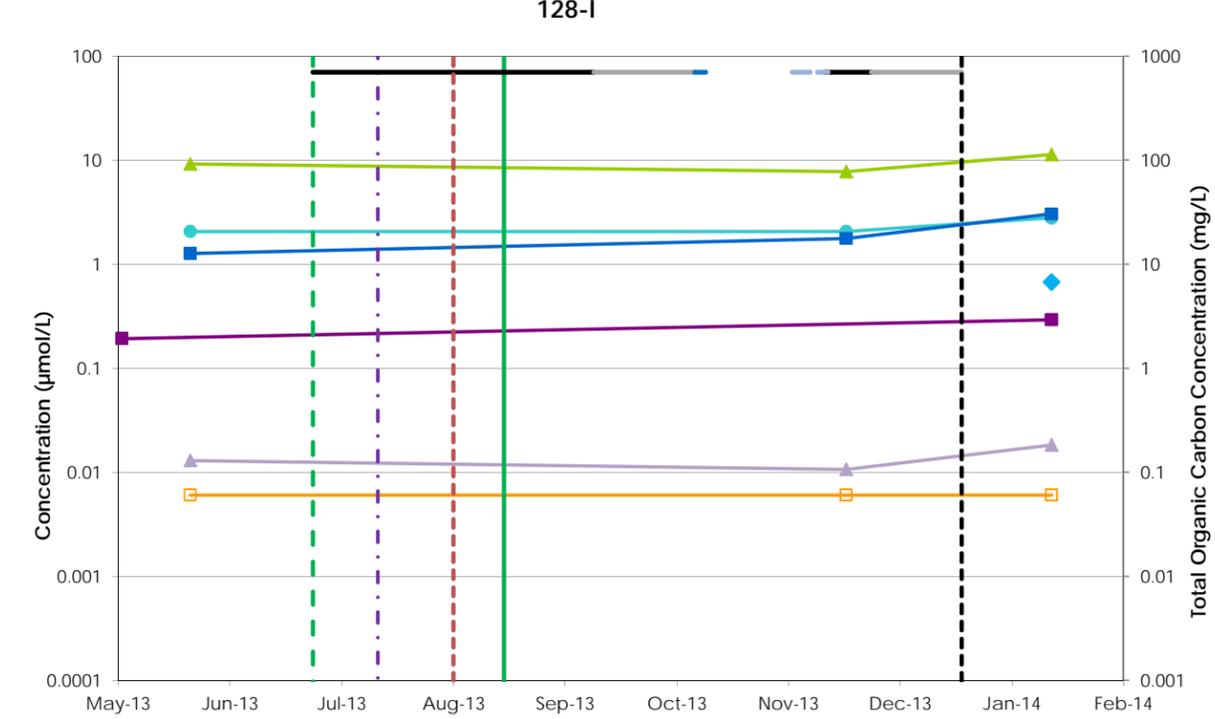
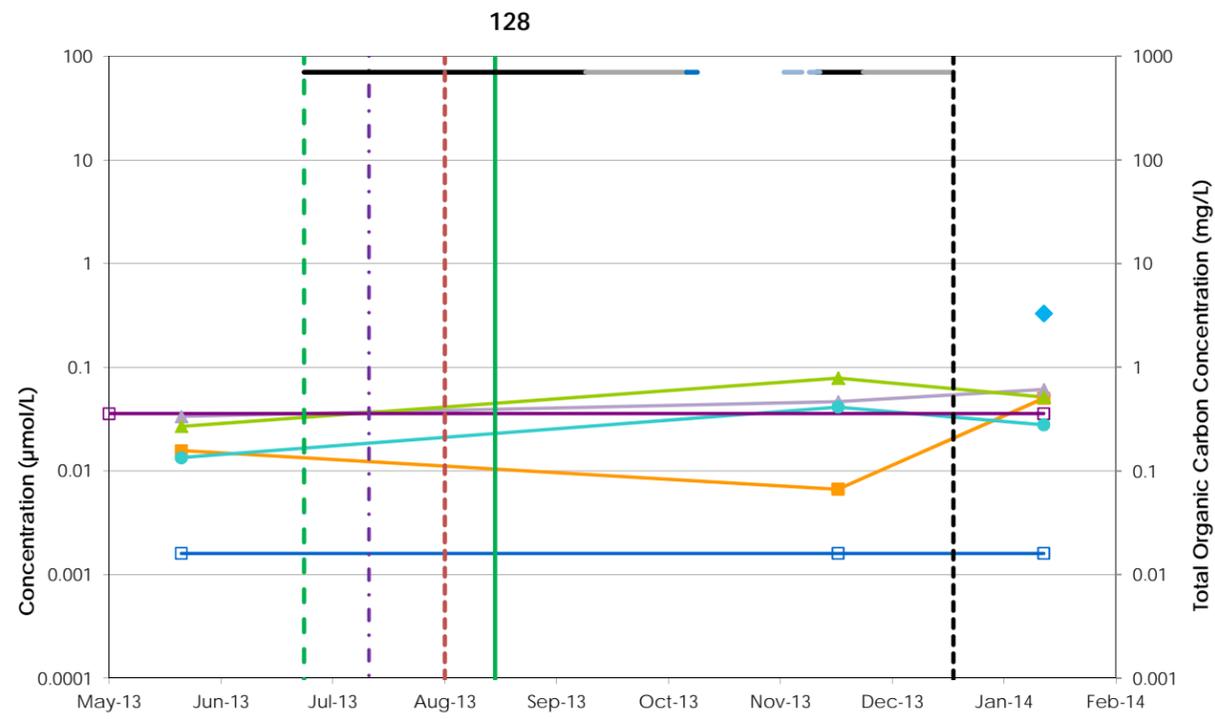


- Tetrachloroethene
- trans-1,2-Dichloroethene
- ◇— TOTAL ORGANIC CARBON
- Trichloroethene
- Vinyl chloride
- △— cis-1,2-Dichloroethene
- ETHENE
- - - Bromide addition
- Bromide addition ended
- - - Bioaugmentation
- Pumping rate 2 GPM
- - - System Shutdown
- Well Rehab - Chemical
- Well Rehab - Mechanical

Notes:
Open symbols are non-detects, presented at limit of quantification

ML04 Intermediate VOC Trends	
DuPont Pompton Lakes Works Pompton Lakes, NJ	
Guelph	April 2014
Figure 7f	

\\Guelph01\Users\VR\Projects\180352_DuPont_Pompton_Lakes\128\MA\Phase 2 - ESR\Report\Figures\CVOC_Trend\Trend_Lines\ML04-04-128



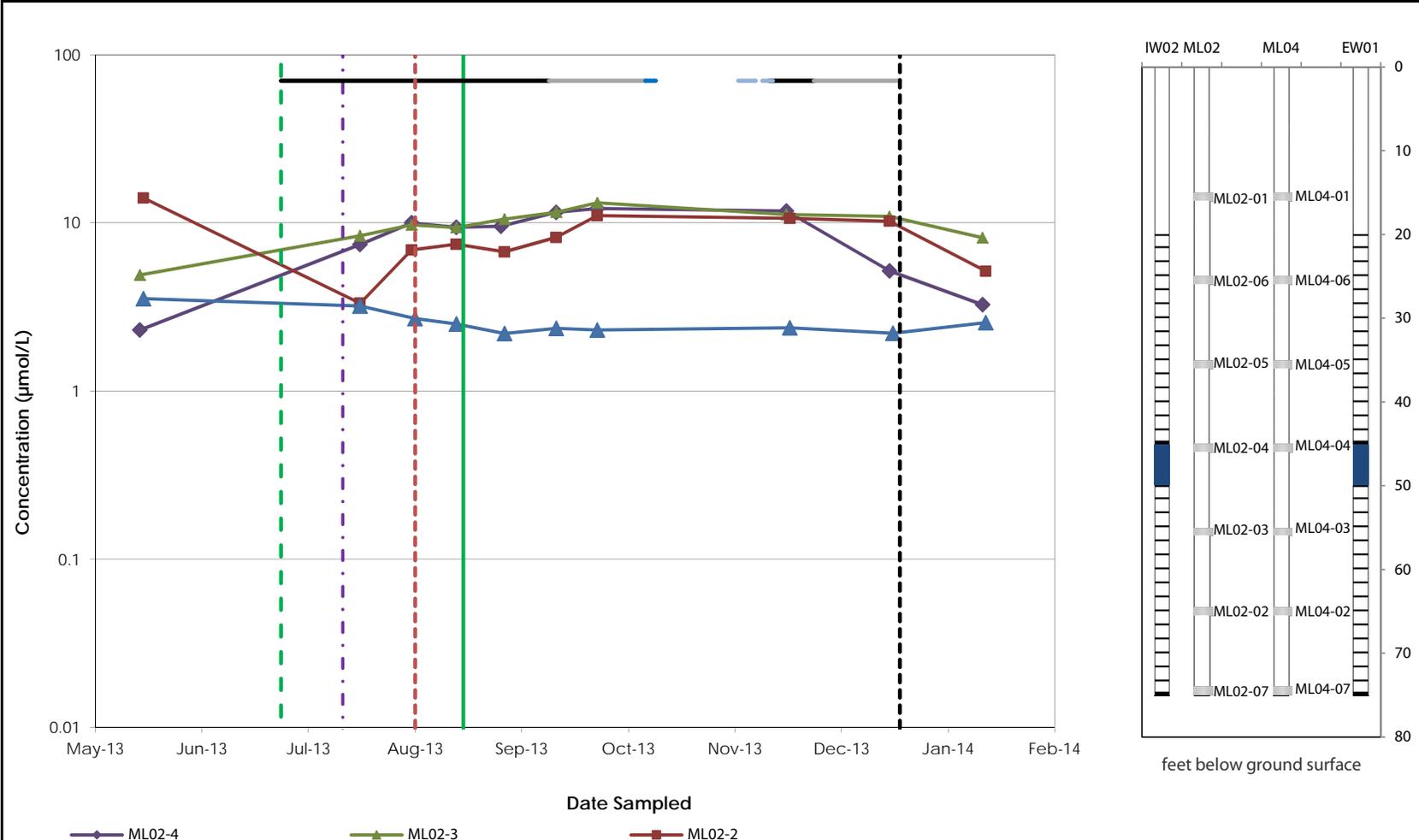
- Tetrachloroethene
- trans-1,2-Dichloroethene
- ◇— TOTAL ORGANIC CARBON
- △— Trichloroethene
- Vinyl chloride
- ◇— cis-1,2-Dichloroethene
- △— ETHENE
- - - Bromide addition
- Pumping rate 3 GPM
- - - Bioaugmentation
- Pumping rate 2 GPM
- - - System Shutdown
- Well Rehab - Mechanical
- Well Rehab - Chemical

Notes:
Open symbols are non-detects, presented at limit of quantification

128 VOC Trends	
DuPont Pompton Lakes Works Pompton Lakes, NJ	
Guelph	April 2014
Figure 7g	

\\Guelph01\Users\VRU\Projects\180352_DuPont\Pompton_Lakes\128\MA\Phase 2 - ESR\Report\Figures\CVOC_Trend\128\128

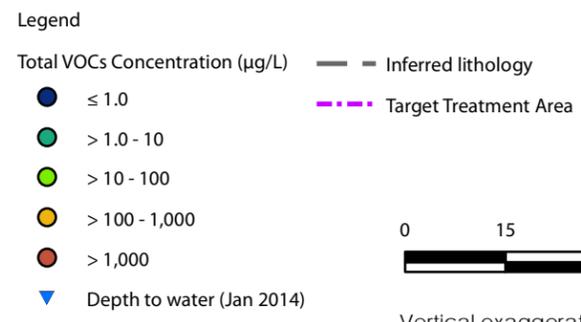
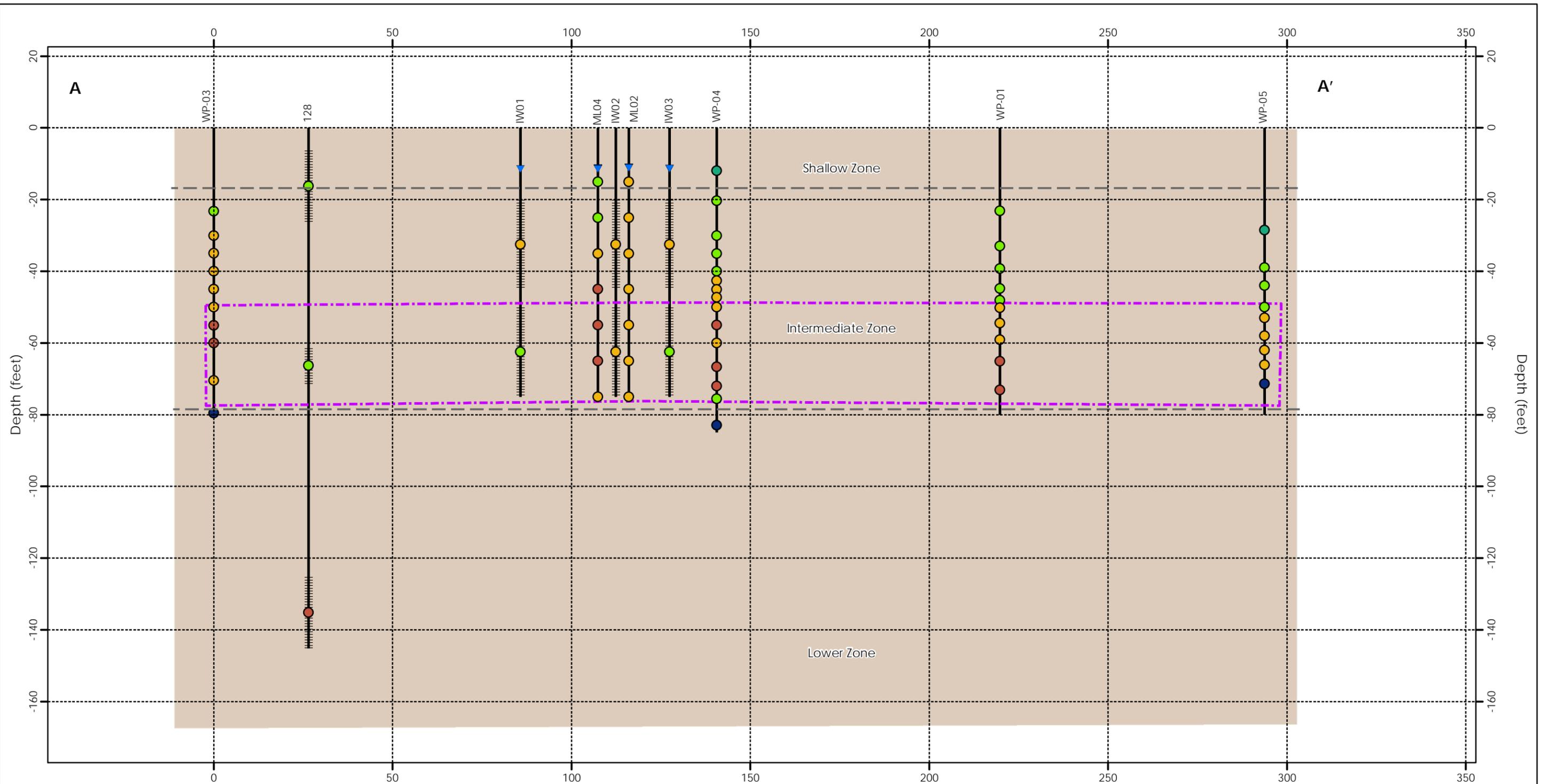
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- ML02-4
- ML02-7
- Sodium lactate addition
- Pumping rate 2 GPM
- Well Rehab - Chemical
- ML02-3
- Bromide addition
- Pumping rate 3 GPM
- Bromide addition ended
- ML02-2
- Bioaugmentation
- System Shutdown
- Well Rehab - Mechanical

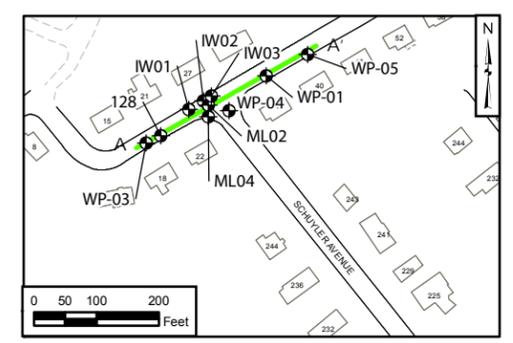
Notes:
 TVOCs is the sum of tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride.

Total Volatile Organic Compounds Analytical Trends for ML02 Intermediate Zone DuPont Pompton Lakes Works Pompton Lakes, NJ	
Guelph	April 2014
Figure 8a	



Notes:
 µg/L - microgram per liter

TVOCs is the sum of tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride.
 *ML02-01 is hydraulically connected to ML02-02.
 Data should not be considered for evaluation.

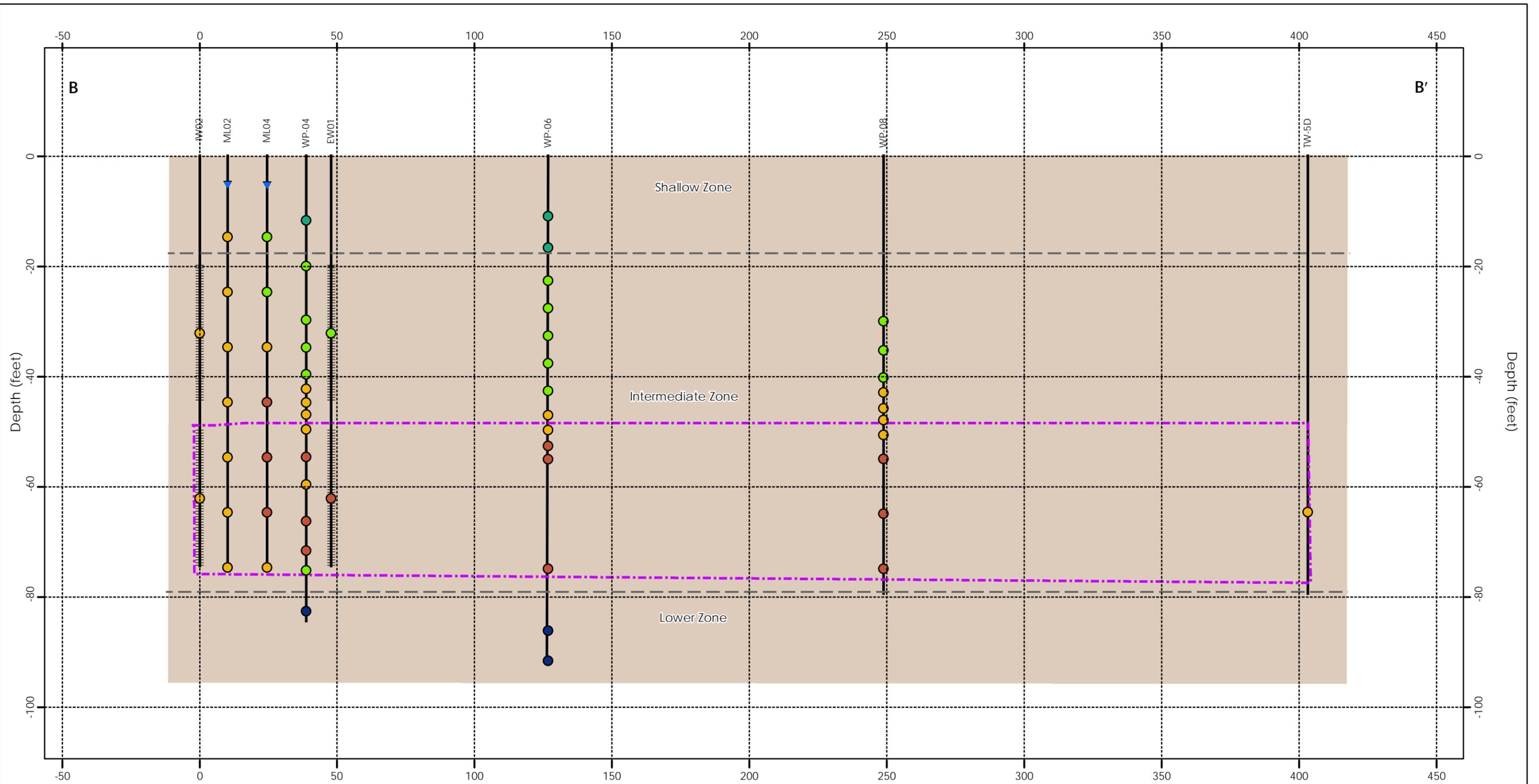


Cross-Section A-A'
 DuPont Pompton Lakes Works
 Pompton Lakes, NJ

Geosyntec
 consultants

Guelph April 2014

Figure
9A



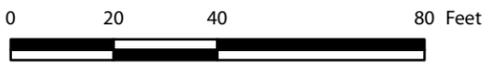
Legend

Total VOCs Concentration (µg/L)

- ≤ 1.0
- > 1.0 - 10
- > 10 - 100
- > 100 - 1,000
- > 1,000
- ▼ Depth to water (Jan 2014)

— Inferred lithology

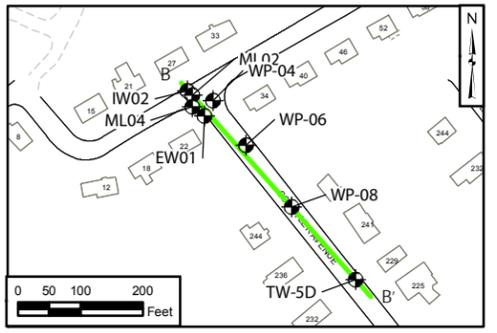
--- Target Treatment Area



Vertical exaggeration is 5x

Notes:
 µg/L - microgram per liter

TVOCs is the sum of tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene, and vinyl chloride.
 *ML02-01 is hydraulically connected to ML02-02.
 Data should not be considered for evaluation.

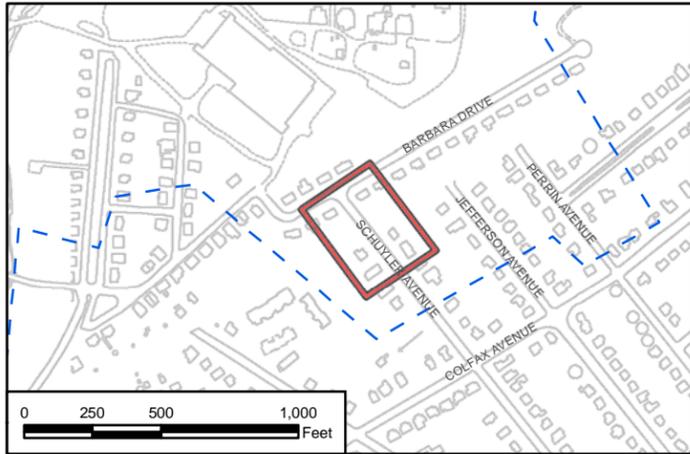


Cross-Section B-B'
 DuPont Pompton Lakes Works
 Pompton Lakes, NJ

Geosyntec
 consultants

Guelph April 2014

Figure
9B

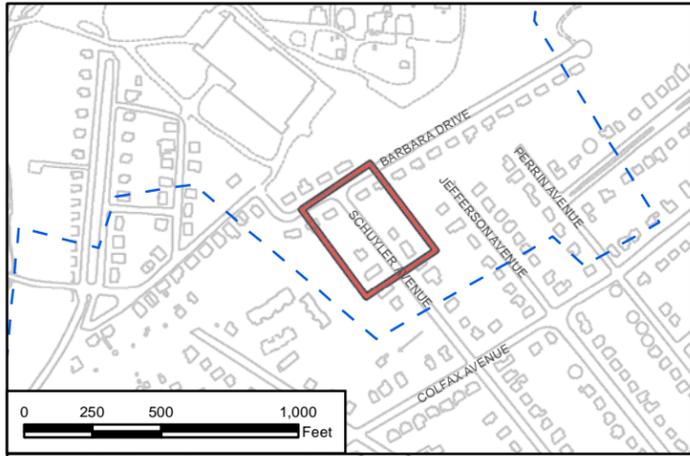


Legend

- ◆ Proposed Location
- Target Treatment Area
- ◆ Existing Location
- ◆ Extraction Well
- ◆ Injection Well
- ◆ Monitoring Well

Notes/Assumptions:
 Target ROI of 15 ft between injection wells, 35,600 Gallons injected per location, injections 2 years apart,
 Average linear Groundwater velocity ~0.015,
 Assume porosity of 0.25
 Injection rate of 3 GPM
 Target thickness 30 ft.

<p>Option 1: Injection wells DuPont Pompton Lakes Works Pompton Lakes, New Jersey</p>	
Guelph	April 2014
<p>Figure 10</p>	



135



Legend

Proposed Location	Existing Location
Injection Well	Extraction Well
Extraction Well	Injection Well
	Monitoring Well
	Target Treatment Area

Notes/Assumptions:
 Target ROI of 20 ft between injection wells,
 Distance between injection wells is 30 ft, distance between injection and extraction wells is 50 ft
 Distance between recirculation loops is estimated to be 100 ft
 Average linear Groundwater velocity -0.6,
 Assume porosity of 0.25
 Operate at 3 GPM then allow ambient conditions.
 Target thickness 30 ft.

<p>Option 2: Forced Gradient Recirculation Loops DuPont Pompton Lakes Works Pompton Lakes, New Jersey</p>	
Guelph	April 2014
<p>Figure 11</p>	

APPENDIX A
PERMIT BY RULE



RECEIVED

6/22/12



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Site Remediation Program
Bureau of Case Management
Mail Code 401-06F
P.O. Box 420
Trenton, NJ 08625-0420

CHRIS CHRISTIE
Governor

BOB MARTIN
Commissioner

KIM GUADAGNO
Lt. Governor

David E. Epps
DuPont Corporate Remediation Group
2000 Cannonball Road
Pompton Lakes, New Jersey 07442

Re: Discharge Approval and Monitoring Requirements Associated with
Permit-By-Rule Discharge Authorization for
Enhanced In-Situ Bioremediation to Intermediate Ground Water Near Well 128
DuPont Pompton Lakes Works Site
NJ Program Interest Number: 007411
Pompton Lakes, Passaic County

Dear Mr. Epps:

This New Jersey Pollutant Discharge Elimination System/Discharge to Ground Water (NJPDDES/DGW) authorization is hereby issued under the authority of the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1 *et seq.* and the implementing regulations, N.J.A.C. 7:14A-1 *et seq.* N.J.A.C. 7:14A-7.5 authorizes the discharge described below which will allow the permittee to conduct the second stage of a technology evaluation interim remedial measure (IRM) pilot study using enhanced in-situ bioremediation (EISB) in the intermediate aquifer in the area of monitoring well cluster 128 at the above referenced site. Pursuant to N.J.A.C. 7:14A-22.4(b)5, a Treatment Works Approval is not required for discharges to ground water authorized pursuant to N.J.A.C. 7:14A-7.5 or 8.5 and a licensed operator is not required pursuant to N.J.A.C. 7:10A-1.10(c)1. The discharge approved through this authorization will be to a UIC-Class V Injection Well. The discharge shall be conducted as proposed in the *Request for NJDEP Permit-by-Rule - Application of Enhanced In-Situ Bioremediation to Intermediate Aquifer - Interim Remedial Measure Pilot Study Near Well 128* dated April 25, 2012, the *Implementation Work Plan for Application of EISB to Intermediate Groundwater Near Well 128*, submitted by Geosyntec on your behalf on January 31, 2012, and the *Technical Memorandum - Response to Comments* dated March 30, 2012. The discharge shall be conducted in conformance with the following requirements.

Consistent with N.J.A.C. 7:14A-7.5(b)3ii, the approved discharge to ground water is not to exceed 180 calendar days. Be advised that the time period for the discharge begins on the day the discharge first occurs, not on the date this discharge approval letter is issued or received.

I. DISCHARGE DESCRIPTION

The authorized discharge is for the addition of an electron donor (sodium lactate), microbial culture for bioaugmentation (KB-1™), and conservative tracer (potassium bromide) during pilot testing. A recirculation system will be constructed to extract water from EW01 and inject into IW02. Packers will be installed in wells IW01, IW02, IW03 and EW01, isolating the less permeable intermediate aquifer from the more permeable shallow zone. An extraction pump will be installed below the packers in the lower screen of EW01. The road will be opened to lay an electrical conduit and pipe between wells IW02 and EW01. An injection line will also be installed below ground surface to IW02, where it will be fed through the packer and positioned in the lower screen.

Recirculation for the in-situ pilot study will be conducted for up to six months, the length of the Permit-by-Rule which allows the re-injection of extracted groundwater. During the in-situ pilot study the following activities will be conducted: bioaugmentation, amendment of electron donor to extracted groundwater; amendment of tracer to extracted groundwater, and groundwater sampling.

The injection of these products is designed to remediate chlorinated volatile organic related contaminants in the ground water resulting from releases from the DuPont Pompton Lakes Works Site. Ground water sampling detected the following compounds in ground water that exceeded applicable remediation standards: tetrachloroethene (PCE), trichloroethene (TCE), 1,2-dichloroethane (1,2-DCA), 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-DCE), trans-1,2-dichloroethene (trans-DCE), carbon tetrachloride (CT) and vinyl chloride (VC).

During recirculation, water level data will be collected to assess the effects of extraction and re-injection. System operating parameters, such as flow rates, injection time and volumes, extraction and injection well water levels, and donor concentrations will be measured and recorded. A soil gas probe (SGP) will be installed within the treatment area to assess the effects of groundwater treatment in the vadose zone. The SGP will be monitored for potential changes in VOC concentrations, if present, in the unsaturated soils overlying the treatment area, as well as for potential production of byproducts of microbial activity, such as methane and hydrogen sulfide.

II SYSTEM OPERATION AND MONITORING

Water will be extracted from EW01 at approximately 3 gallons per minute (gpm), amended with sodium lactate, and then re-injected into IW02. A tracer (potassium bromide) will be continuously amended to the re-injected groundwater for the first several weeks of pilot testing. Approximately two weeks after electron donor addition, KB-1™ will be injected at IW02 to provide the target treatment area with a microbial consortium for dechlorination of the chlorinated ethenes. Lactate additions will be once per day for a duration of less than one hour to minimize biofouling. Routine groundwater sampling will be conducted to assess performance and interactions between the shallow and intermediate zones. Sampling shall be performed as proposed in the *Implementation Work Plan for Application of EISB to Intermediate Groundwater Near Well 128*, dated January 31, 2012. All soil and ground water sampling must be performed consistent with the methods specified in the most current edition of the Department's Field

Sampling Procedures Manual, unless otherwise approved by the Department. All samples shall be analyzed by a New Jersey Certified Laboratory certified for the methods.

The area around the extraction well EW-01 and injection well IW02 shall be monitored for evidence of malfunction. Said evidence shall include, but not be limited to: breakout, wet areas, ponding, odors, and elevated PID readings in the nearby work area or building. The vault at EW01 will have a liquid sensor to stop groundwater extraction if water is accumulating in the vault. This will protect the equipment and ensure that system upsets do not result in groundwater discharge to the surface.

The discharge shall not have a long term adverse impact on ground water quality, create an unpermitted discharge to any surface water of the State, create a persistent standing, ponded or surface-flowing fluid condition, adversely impact a water supply well or cause adverse vapor intrusion to occur.

All UIC-Class V injection wells shall be properly abandoned in accordance with N.J.A.C. 7:14A-8.16(d)1 as applicable. The permittee will comply with any applicable provisions of the Additional Conditions Applicable to Class I, II, III and V UIC Permits of the NJPDES regulations, N.J.A.C. 7:14A-8.9, et seq. when UIC-Class V injection well units (i.e., the injection points) are used.

Pursuant to N.J.A.C. 7:14A-6.2(a)5 and 11, if free product in ground water, vapors or odors in any building, or any malfunction resulting in a potential impact to a receptor are detected and are a result of the discharge authorized by this approval, the discharger will immediately: (1) cease the discharge or make necessary adjustments to the injection rate; and (2) repair or mitigate any negative impacts.

III. GROUND WATER MONITORING REQUIREMENTS

System performance will primarily be based on VOC concentrations (to assess the degree of removal) and total organic carbon (TOC; to assess the amount of labile donor available). Dissolved hydrocarbon gases (DHGs) will be sampled at a subset of locations to confirm that decreases in chlorinated VOC concentrations are accompanied by increases in ethene and ethane, the end-products of dechlorination and to assess methane formation from donor addition. Other indicators of the in-situ pilot study performance will include field measurements of pH, oxidation reduction potential (ORP) and dissolved oxygen (DO). Sulfate concentrations will be monitored at a subset of locations to confirm removal (conversion to sulfide), since sulfate-reducing conditions are expected. Samples will be collected on a periodic basis to assess microbial activity using quantitative polymerase chain reaction (qPCR) analysis. Ground water monitoring/sampling must be conducted as specified as proposed in the *Implementation Work Plan for Application of EISB to Intermediate Groundwater Near Well 128*, dated January 31, 2012.

IV. REPORTING REQUIREMENTS AND INFORMATION SUBMITTALS

Monthly communications (e.g., conference calls) will be held to provide progress updates. At the end of the in-situ pilot study, DuPont will prepare a Pilot Study Report which will summarize all in-situ pilot study activities, data, and results, and interpret effectiveness and implementability of

this approach. All information and soil gas and ground water sampling results, and the QA/QC package specified at N.J.A.C. 7:26E-2.1(a)15, shall be submitted to the below address at the frequency specified in the DGW Proposal. A summary of all monitoring results shall also be submitted with the Pilot Study Report, N.J.A.C. 7:26E-5.7, and sent to:

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CASE MANAGEMENT
MAILCODE 401-06F
P.O. BOX 420
TRENTON, NJ 08625-0420

In addition, electronic copies of the tabulated sampling results shall be e-mailed to Anthony Cinque at Anthony.Cinque@dep.state.nj.us according to the schedule that is in the *Implementation Work Plan for Application of EISB to Intermediate Groundwater Near Well 128*, dated January 31, 2012.

The record keeping requirements of N.J.A.C. 7:14A-6.6 are applicable to monitoring information resulting from this discharge authorization. Pursuant to N.J.A.C. 7:14A-6.8(e) the results for any additional sampling done as a result of this discharge, but that is not specified in this authorization, must also be reported with the Pilot Study Report as specified above. Any malfunctions or non-compliance should be reported by telephone within 24 hours to Anthony Cinque of the Bureau of Case Management at (609) 633-1416, and in writing within 7 days to the above address using the subject line "DGW Permit-by-Rule Compliance Report."

If you have any questions or concerns, please contact me at (609) 633-1416.

Sincerely,



Anthony Cinque, Case Manager
Bureau of Case Management

- c: Kathleen M. Cole, Mayor, Pompton Lakes
- Norma Eichlin, O'Brien & Gere
- Elizabeth Brandsness, Municipal Clerk, Pompton Lakes
- Mary Ann Orapello, Board of Health, Pompton Lakes
- John Boyer, NJDEP/BEERA
- Mindy Mumford, NJDEP/OCR
- David VanEck, NJDEP/BGWPA
- Clifford Ng, USEPA
- Steven Acree, ADA

APPENDIX B
WELL AND SOIL GAS PROBE COMPLETION LOGS



O'BRIEN & GERE

BORING LOG

WELL NO. EW01

PROJECT: Well 128 IRM Pilot Study
CLIENT: DuPont PLW
INSPECTOR: Nicole Moneta

SHEET 1 OF 1

JOB NO. 47723

DRILLING CONTRACTOR: Parratt Wolff, Inc.

GROUND ELEV. 219.11 ft msl

DRILLER: Ian Grassie

PURPOSE: Pilot Study

DATUM NAVD 1988

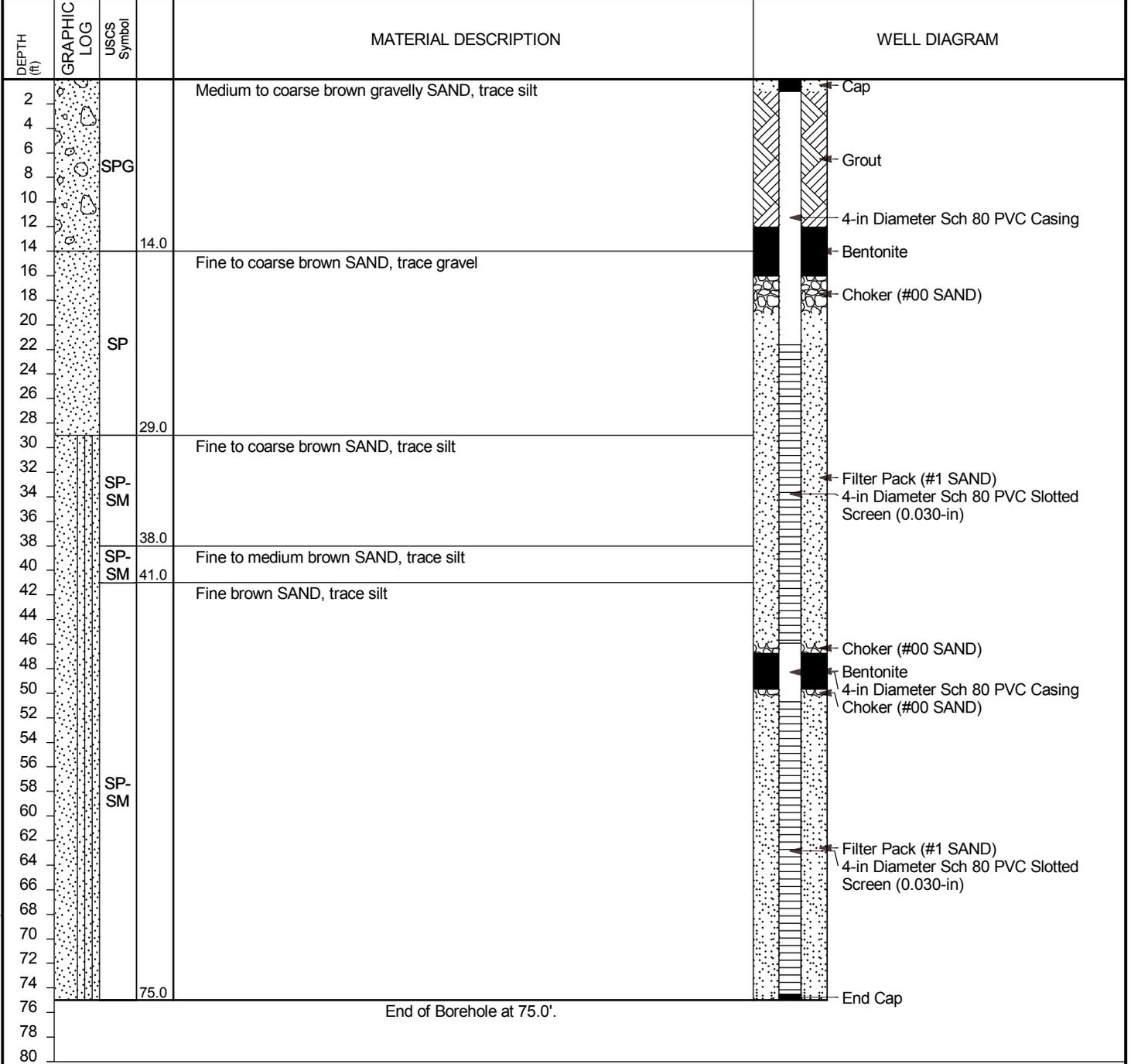
DRILLING METHOD: Direct Push, HSA

	SAMPLE	CORE	CASING
TYPE	---	---	SS
DIA.	---	---	12"

DATE STARTED 6/15/2011

DRILL RIG TYPE: HSA

DATE FINISHED 6/17/2011





BORING LOG

WELL NO. **IW01**

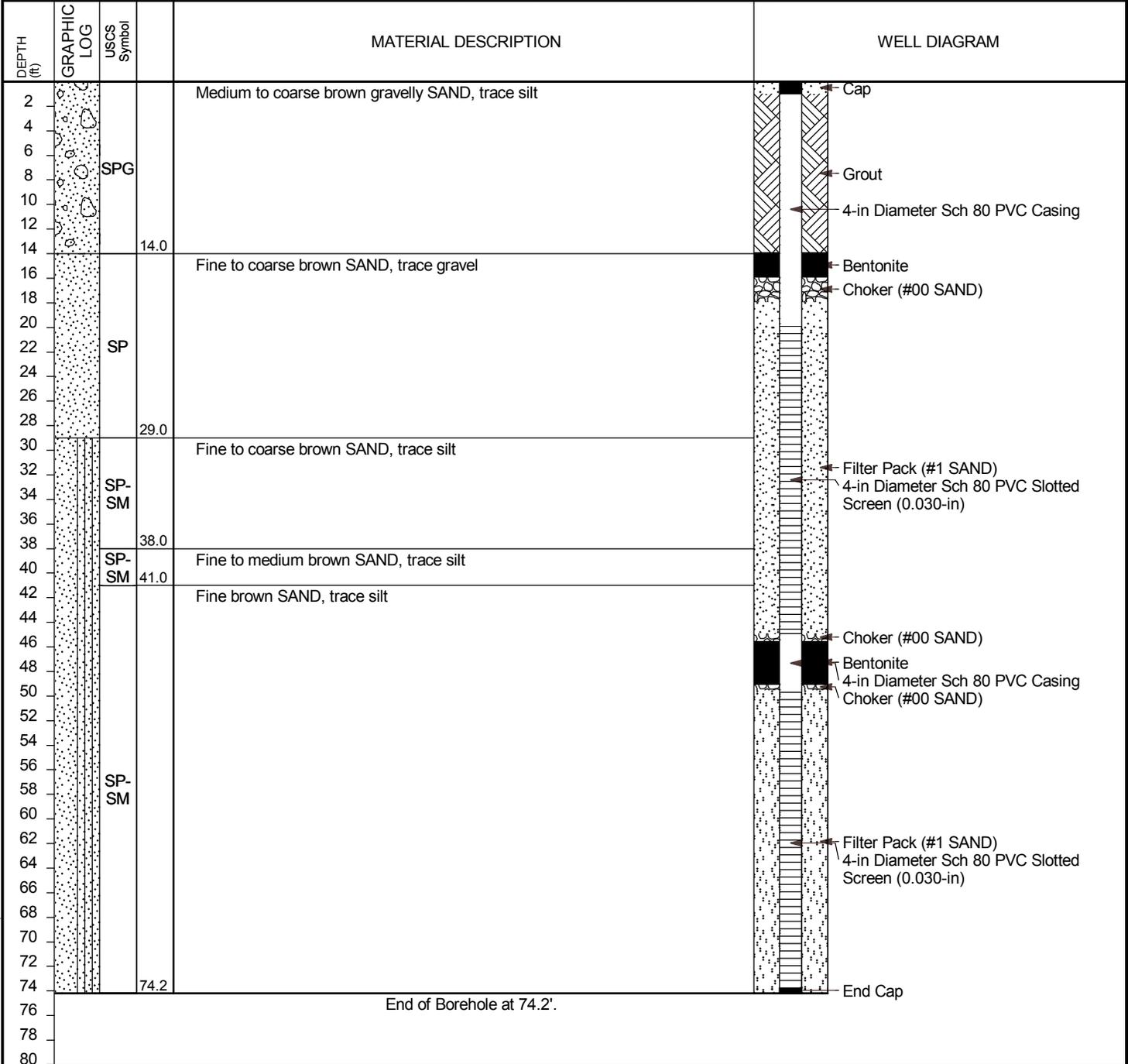
PROJECT: Well 128 IRM Pilot Study
CLIENT: DuPont PLW
INSPECTOR: Nicole Moneta

SHEET 1 OF 1
JOB NO. 47723
GROUND ELEV. 218.08 ft msl

DRILLING CONTRACTOR: Parratt Wolff, Inc.
DRILLER: Ian Grassie
PURPOSE: Pilot Study
DRILLING METHOD: Direct Push, HSA
DRILL RIG TYPE: HSA

DATUM NAVD 1988
DATE STARTED 6/1/2011
DATE FINISHED 6/3/2011

	SAMPLE	CORE	CASING
TYPE	---	---	SS
DIA.	---	---	12"



Report Name: OBG BORING LOG Data Template: OBG GINT STD U.S.GDT

Notes:



BORING LOG

WELL NO. **IW02**

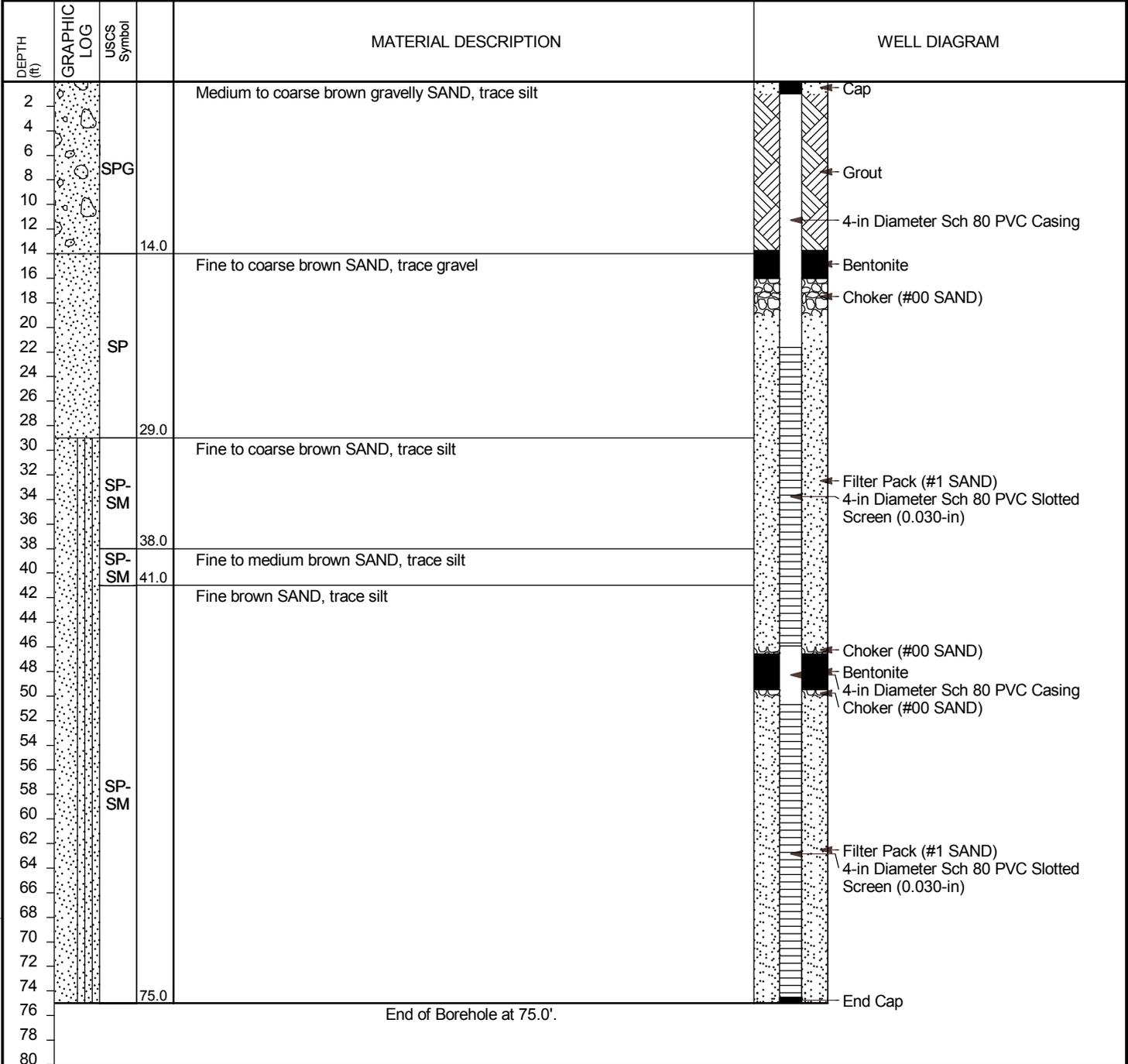
PROJECT: Well 128 IRM Pilot Study
CLIENT: DuPont PLW
INSPECTOR: Nicole Moneta

SHEET 1 OF 1
JOB NO. 47723
GROUND ELEV. 218.07 ft msl

DRILLING CONTRACTOR: Parratt Wolff, Inc.
DRILLER: Ian Grassie
PURPOSE: Pilot Study
DRILLING METHOD: Direct Push, HSA
DRILL RIG TYPE: HSA

DATUM NAVD 1988
DATE STARTED 6/14/2011
DATE FINISHED 6/17/2011

	SAMPLE	CORE	CASING
TYPE	---	---	SS
DIA.	---	---	12"



Report Name: OBG BORING LOG Data Template: OBG GINT STD U.S.GDT

Notes:



BORING LOG

WELL NO. **IW03**

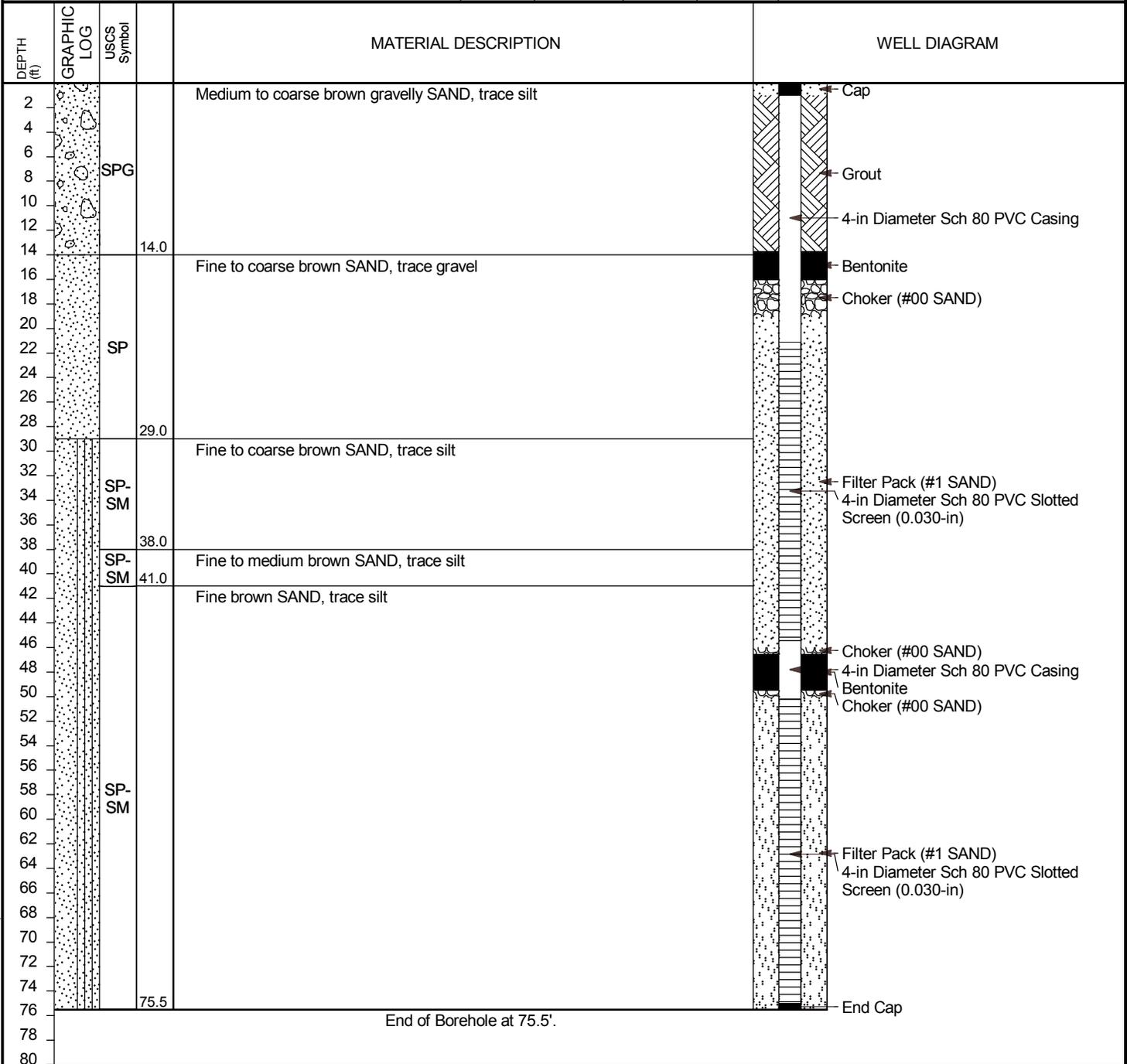
PROJECT: Well 128 IRM Pilot Study
CLIENT: DuPont PLW
INSPECTOR: Nicole Moneta

SHEET 1 OF 1
JOB NO. 47723
GROUND ELEV. 218.16 ft msl

DRILLING CONTRACTOR: Parratt Wolff, Inc.
DRILLER: Ian Grassie
PURPOSE: Pilot Study
DRILLING METHOD: Direct Push, HSA
DRILL RIG TYPE: HSA

DATUM NAVD 1988
DATE STARTED 6/8/2011
DATE FINISHED 6/10/2011

	SAMPLE	CORE	CASING
TYPE	---	---	SS
DIA.	---	---	12"



Report Name: OBG BORING LOG Data Template: OBG GINT STD U.S.GDT

Notes:



BORING LOG

WELL NO. **ML02**

PROJECT: Well 128 IRM Pilot Study
CLIENT: DuPont PLW
INSPECTOR: Nicole Moneta

SHEET 1 OF 1
JOB NO. 47723
GROUND ELEV. 218.14 ft msl

DRILLING CONTRACTOR: Parratt Wolff, Inc.

DRILLER: Ian Grassie

PURPOSE: Pilot Study

DRILLING METHOD: Drive and Wash, Cathead

DRILL RIG TYPE: Cathead

	SAMPLE	CORE	CASING
TYPE	---	---	SS
DIA.	---	---	7"

DATUM NAVD 1988
DATE STARTED 6/27/2011
DATE FINISHED 6/30/2011

DEPTH (ft)	GRAPHIC LOG	USCS Symbol	MATERIAL DESCRIPTION	WELL DIAGRAM
2		SPG	Medium to coarse brown gravelly SAND, trace silt	Cap
4			Grout	
6		Bentonite		
8		14.0	Filter Pack (#0 SAND)	
10		Stainless Steel Screen (100 Mesh)		
12		Bentonite		
14		SP	Fine to coarse brown SAND, trace gravel	Filter Pack (#0 SAND)
16			Stainless Steel Screen (100 Mesh)	
18		Bentonite		
20		29.0	Filter Pack (#0 SAND)	
22		Stainless Steel Screen (100 Mesh)		
24		Bentonite		
26		SP-SM	Fine to coarse brown SAND, trace silt	Filter Pack (#0 SAND)
28			Stainless Steel Screen (100 Mesh)	
30	Bentonite			
32	38.0	Filter Pack (#0 SAND)		
34	Stainless Steel Screen (100 Mesh)			
36	Bentonite			
38	SP-SM	Fine to medium brown SAND, trace silt	Filter Pack (#0 SAND)	
40		41.0	Stainless Steel Screen (100 Mesh)	
42	Bentonite			
44	SP-SM	Fine brown SAND, trace silt	Filter Pack (#0 SAND)	
46		Stainless Steel Screen (100 Mesh)		
48		Bentonite		
50		76.8	Filter Pack (#0 SAND)	
52		Stainless Steel Screen (100 Mesh)		
54		Bentonite		
56		Filter Pack (#0 SAND)		
58		Stainless Steel Screen (100 Mesh)		
60		Bentonite		
62		Filter Pack (#0 SAND)		
64	Stainless Steel Screen (100 Mesh)			
66	Bentonite			
68	Filter Pack (#0 SAND)			
70	Stainless Steel Screen (100 Mesh)			
72	Bentonite			
74	Filter Pack (#0 SAND)			
76	Stainless Steel Screen (100 Mesh)			
78	End of Borehole at 76.8'	Filter Pack (#0 SAND)		
80				

Report Name: OBG BORING LOG Data Template: OBG GINT STD U.S.GDT

Notes:



O'BRIEN & GERE

BORING LOG

WELL NO. ML04

PROJECT: Well 128 IRM Pilot Study
CLIENT: DuPont PLW
INSPECTOR: Nicole Moneta

SHEET 1 OF 1

JOB NO. 47723

DRILLING CONTRACTOR: Parratt Wolff, Inc.

GROUND ELEV. 218.21 ft msl

DRILLER: Ian Grassie

DATUM NAVD 1988

PURPOSE: Pilot Study

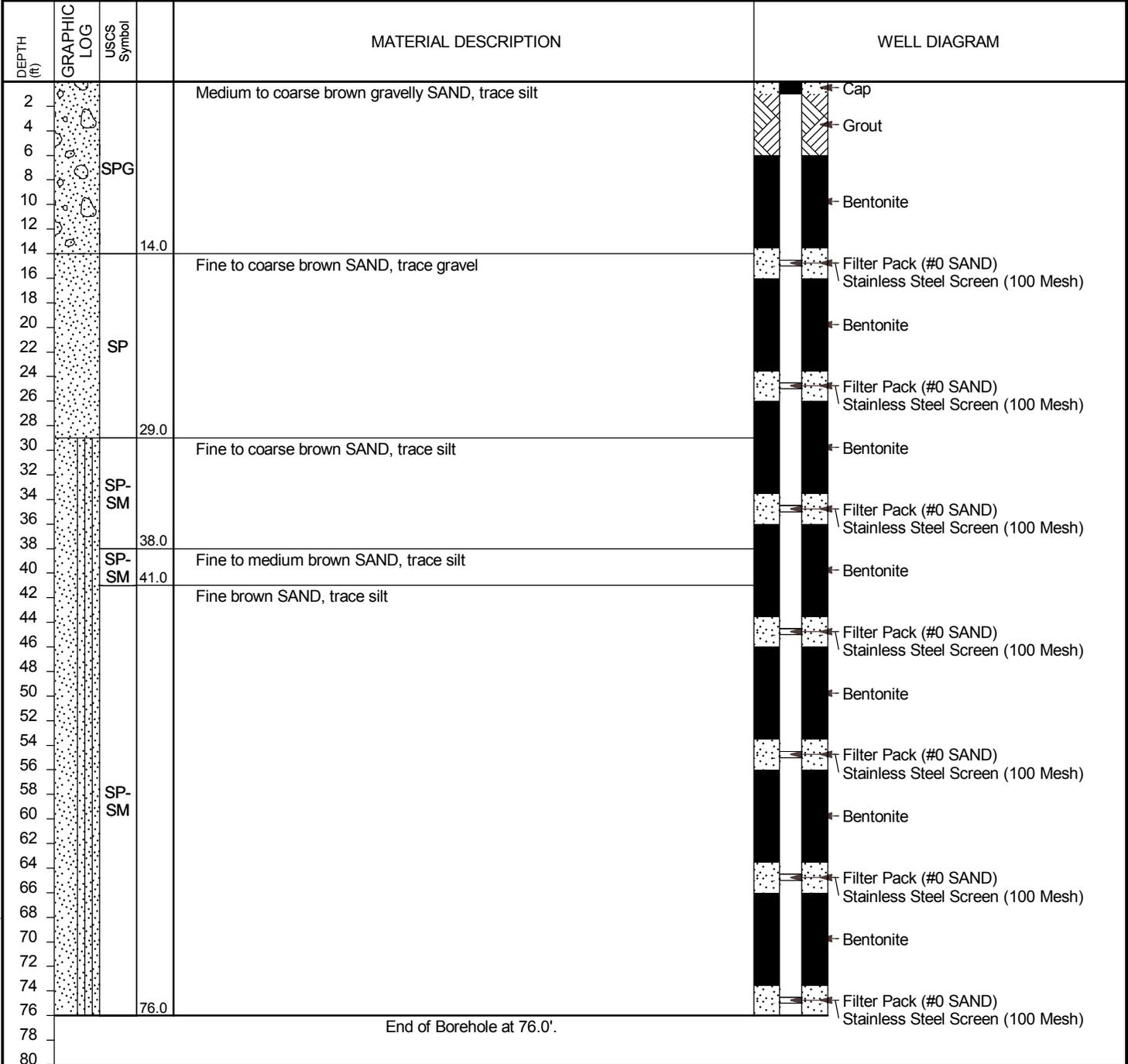
DATE STARTED 6/20/2011

DRILLING METHOD: Drive and Wash, Cathead

	SAMPLE	CORE	CASING
TYPE	---	---	SS
DIA.	---	---	7"

DATE FINISHED 6/27/2011

DRILL RIG TYPE: Cathead



Report Name: OBG BORING LOG Data Template: OBG GINT STD US.GDT

Notes:

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: E.I. DU PONT DE NEMOURS
Name of Facility: Pompton Lakes Works
Location: Pompton Lakes, New Jersey 07442
NJPDES Permit No: NJ 0001350

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831):

This number must be permanently affixed to the well casing.

2 3 0 9 8 9 1 1

Owner's Well Number (As shown on the application or plans):

128

Well Completion Date:

12-13-89

Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot):

0.26 feet

Total Depth of Well (one-tenth of a foot):

31.7 feet

Depth to Top of Screen From Top of Casing (one-tenth of a foot):

6.5 feet

Screen Length (feet):

20 feet

Screen or Slot Size:

0.015 (6.5'-16.5') 0.010 (16.5'-26.5')

Screen Material:

PVC

Casing Material: (PVC, Steel or Other-Specify):

PVC Schedule 40

Casing Diameter (Inches):

4 inches

Static Water Level From Top of Casing at The

Time of Certification (one-hundredth of a foot):

10.0 feet

Yield (Gallons per Minute):

5-10 gpm

Length of time Well Pumped or Bailed:

3 Hours 30 Minutes

Lithologic Log:

ATTACH ON BACK

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment. All information gathered by others (e.g. O.H. Materials, attached well log). This information has not been field verified.

NE Kramer
Professional Engineer's Signature

Norman E. Kramer

Professional Engineer's Name
(Please type or print)

SEAL

NJPE GE34646

Professional Engineer's License #

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS, HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: E.I. DU PONT DE NEMOURS & CO., INC.
Name of Facility: Pompton Lakes Works, Cannonball Rd.
Location: Pompton Lakes, New Jersey 07442
NJPDES Number: NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):
This number must be permanently affixed to the well casing.

2 3 - 0 9 8 9 1 - 1

Longitude (one-tenth of a second): West 074-16-57.02
Latitude (one-tenth of a second): North 041-00-39.60
Elevation of Top of Casing (cap off) (one-hundredth of a foot): PVC=218.99/GRD=219.25
Owners Well Number (As shown on the application or plans): 128

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Paul J. Emilius

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Paul J. Emilius

PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

New Jersey P.L.S. License Number 11363
PROFESSIONAL LAND SURVEYOR'S LICENSE #

The Department reserves the right in cases of violation of permit specified ground water limits or Ground Water Quality Standards (N.J.A.C. 7:9-6.1 et seq.) to require that wells be resurveyed to an accuracy of one-hundredth of a second latitude and longitude. This shall not be considered to require a major modification of the NJPDES permit.

Geologic Log

Well

Well ID	Depth	Lithology	Min/Max	Avg	GrainShape	Sorting	Color	Recovery	Blow counts	PID	Comments
128-D	0	Sand	31.00 25,000	125	Subangular	Very poorly sorted	Grey br 5/2	95.0	9 10 11 23	0.0	0-0.3' ASPHALT PAVEMENT - 3' SPOON; SILTY C-F SAND, AND M-F GRAVEL
128-D	2	Sand	31.00 50,000	350	Subangular	Poorly sorted	Lt olive br 5/4	100	20 20 23 28	0.0	D.O.
128-D	4	Sand	31.00 10,000	500	Subangular	Poorly sorted	Lt olive br 5/4	55	6 4 5 22	0.0	D.O.
128-D	6	Sand	62.50 50,000	350	Subangular	Poorly sorted	Lt olive br 5/4	100	20 23 28 21	0.0	C-F SAND, AND M-F GRAVEL
128-D	8	Sand	62.50 63,000	1500	Subangular	Poorly sorted	Lt olive br 5/4	95.0	20 19 15 28	0.0	D.O.
128-D	10	Sand	62.50 63,000	1500	Subangular	Poorly sorted	Lt olive br 5/4	80	12 14 14 16	0.0	D.O.
128-D	12	Sand	62.50 63,000	1500	Subangular	Poorly sorted	Lt olive br 5/4	100	7 15 12 14	0.0	D.O.
128-D	14	Sand	6.25 76,000	1500	Rounded	Poorly sorted	Olive br 4/4	80	12 28 23 18	0.0	D.O.
128-D	16	Sand	62.50 1,000	250	Rounded	Poorly sorted	Lt olive br 5/4	100	17 17 18 24	0.2	16-16.4 c-f sand & gravel, 16.4-18.0 c-f sand - 3 spoon
128-D	18	Sand	62.50 1,000	250	Rounded	Poorly sorted	Lt olive br 5/4	95.0	20 18 16 16	0.0	
128-D	20	Sand	62.50 350	150	Subangular	Well sorted	Olive br 4/4	85.0	9 9 9 11	0.2	
128-D	22	Sand	62.50 1,000	400	Subangular	Moderately well sorted	Olive br 4/4	100	5 6 6 14	0.1	
128-D	24	Sand	10.00 3,500	400	Rounded	Poorly sorted	Olive br 4/4	100	10 14 16 17	0.1	1/4" thick layer of fine silt in 25' to 25.5' interval

Geologic Log

Well

Well ID	Depth	Lithology	Min/Max	Avg	GrainShape	Sorting	Color	Recovery	Blow counts	PID	Comments
128-D	26	Sand	62.50 3,500	350	Rounded	Poorly sorted	Olive br 4/4	100	7 5 4 7	0.1	w/sand interbed to coarse sand
128-D	28	Sand	62.50 1,500	300	Rounded	Moderately well sorted	Olive br 4/4	100	3 8 8 10	3.6	m-f sand
128-D	30	Sand	62.50 6,000	300	Rounded	Moderately well sorted	Olive br 4/4	85.0	6 6 5 8	4.6	c-f sand, little m-f gravel
128-D	32	Sand	62.50 1,500	300	Rounded	Moderately well sorted	Olive br 4/4	95.0	5 5 7 16	1.0	c-f sand
128-D	34	N/A	0.00 0	0	N/A	N/A		0	13 19 35 34	0.0	
128-D	36	Sand	62.50 6,300	300	Subangular	Poorly sorted	Olive br 4/4	100	14 12 14 19	0.1	c-f sand, little m-f gravel
128-D	38	Sand	62.50 1,500	350	Subangular	Poorly sorted	Dk grey br 4/2	100	6 17 11 15	0.8	Sweet odor present, c-f sand
128-D	40	Sand	62.50 1,500	350	Subangular	Poorly sorted	Dk grey br 4/2	100	13 23 27 24	0.8	D.O.
128-D	42	Sand	62.50 1,500	350	Subangular	Poorly sorted	Dk grey br 4/2	100	12 15 12 12	1.1	3" Spoon, c-f sand
128-D	44	Sand	62.50 7,500	500	Subangular	Poorly sorted	Dk grey br 4/2	100	12 16 11 12	0.1	c-f sand, little m-f gravel
128-D	46	Sand	62.50 9,500	350	Subangular	Poorly sorted	Olive 4/3	100	10 12 11 16	6.0	D.O.
128-D	48	Sand	62.50 1,000	250	Subangular	Moderately well sorted	Olive 4/3	100	9 12 15 16	11.4	c-f sand
128-D	50	Sand	62.50 1,000	250	Subrounded	Moderately well sorted	Olive 4/3	100	4 3 5 9	10.2	D.O.

Geologic Log

Well

Well ID	Depth	Lithology	Min/Max	Avg	Grain Shape	Sorting	Color	Recovery	Blow counts	PID	Comments
128-D	52	Sand	62.50 500	350	Subrounded	Moderately well sort	Dk grey 4/1	100	13 14 19 24	10.4	m-f sand
128-D	54	Sand	62.50 500	350	Subangular	Moderately well sort	Dk grey 4/1	100	16 14 14 8	0.2	D.O.
128-D	56	Sand	62.50 250	175	Subangular	Well sorted	Dk grey 4/1	100	5 6 10 15	0.2	Fine sand
128-D	58	Sand	62.50 250	175	Subangular	Well sorted	Dk grey 4/1	100	11 12 14 15	2.2	D.O.
128-D	60	Sand	62.50 250	175	Subangular	Well sorted	Dk grey 4/1	100	14 14 12 15	2.0	D.O.
128-D	62	Sand	0.06 250	125	Subangular	Well sorted	Dk grey 4/1	100	10 11 14 16	10.2	w/some thin f-silt to clay layers
128-D	64	Sand	0.06 125	100	Subangular	Well sorted	Dk grey 4/1	100	14 11 12 14	12.0	w/some thin dark brown 4/4 Hue 7.5YR interbeds
128-D	66	Silt	3.90 62	50	N/A	Very well sorted	Olive gr 4/2	100	8 5 8 14	2.4	3" Spoon
128-D	68	Sand	0.06 175	100	Subrounded	Well sorted		100	5 5 5 10	8.0	
128-D	70	Sand	3.90 500	175	Rounded	Moderately well sort	Bright Green	100	7 5 8 10	5.0	2" Spoon - silty f-m sand color off chart
128-D	72	Sand	3.90 500	250	Rounded	Moderately well sort	Bright Green	70	2 4 8 10	5.0	D.O. w./some very fine lamination color off chart
128-D	74	Sand	3.90 500	250	Rounded	Moderately well sort	Bright Green	100	7 9 9 9	0.3	color off chart
128-D	76	Sand	0.06 250	62.5	Rounded	Well sorted	Olive gr 4/2	100	11 13 10 14	0.1	w/some clay interbeds

Geologic Log

Well

Well ID	Depth	Lithology	Min/Max	Avg	GrainShape	Sorting	Color	Recovery	Blow counts	PID	Comments
128-D	78	Silt	0.06 250	62.5	Rounded	Moderately well sort	Olive gr 4/2	60.0	3 5 11 8	0.1	w/some clay interbeds
128-D	80	Silt	0.06 200	50	Rounded	Moderately well sort	Olive gr 4/2	100	12 5 11 15	0.0	3" spoon - w/some dk. greyish brn. interbeds 4/2 Hue 2.5Y w. clayish interbeds
128-D	82	Silt	0.06 200	50	Rounded	Moderately well sort	Olive gr 4/2	100	7 12 13 15	0.0	D.O.
128-D	84	Silt	0.06 125	50	Rounded	Well sorted	Dk grey br 4/2	100	7 13 12 11	0.0	3" spoon - w/some dk. brn. 4/3 Hue 10YR interbeds + 1" thick clay interbeds
128-D	86	Silt	0.06 125	50	Rounded	Well sorted	Dk grey 4/1	100	26 17 15 14	0.0	D.O.
128-D	88	Silt	0.06 125	50	Rounded	Well sorted	Dk grey br 4/2	100	16 15 18 30	0.0	D.O.
128-D	90	Sand	3.00 125	62	Subrounded	Well sorted	Olive gr 4/2	100	7 11 12 15	0.0	3" SPOON - W/SOME DARK BROWN 4/2 HUE LO YR INTERBEDS 12/6/89
128-D	92	Silt	3.90 62	50	N/A	Very well sorted	Olive gr 4/2	100	6 5 7 9	0.0	D.O.
128-D	94	Silt	3.90 62	31	N/A	Very well sorted	Dk grey br 4/2	100	5 5 9 10	0.0	W/SOME CLAY VARVES
128-D	96	Silt	3.90 62	31	N/A	Very well sorted	Dk grey br 4/2	100	10 5 5 10	0.0	D.O.
128-D	98	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	100	4 4 5 11	0.0	3" SPOON
128-D	100	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	55	8 8 5 14	0.0	2" SPOON
128-D	102	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	80.0	13 13 14 17	0.0	2" SPOON

Geologic Log

Well

Well ID	Depth	Lithology	Min/Max	Avg	GrainShape	Sorting	Color	Recovery	Blow counts	PID	Comments
128-D	104	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	85	18 15 14 16	0.0	2" SPOON
128-D	106	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	100	11 7 11 10	0.0	3" SPOON
128-D	108	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	100	8 8 7 10	0.0	3" SPOON
128-D	110	Silt	0.00 62	31		Very well sorted		100	11 11 8 7	0.0	3" SPOON
128-D	112	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	90	12 16 16 16	0.0	3" SPOON
128-D	114	Silt	0.00 62	31		Very well sorted		100	5 6 6 8	0.0	
128-D	116	Sand	3.90 75	62.5	N/A	Very well sorted	Dk grey br 4/2	100	9 6 7 10	0.0	W/SOME DARK DROWN 4/3 10 YR HUE INTERBEDS
128-D	118	Silt	0.00 75	31		Well sorted	DK. BRN 3/3 H	100	10 10 17 24	0.0	W/SOME DARK GREYISH BROWN 4/2 HUE 2.5 Y S/SOME CLAY INTERBEDS VARVES
128-D	120	Silt	0.06 62	20	N/A	Very well sorted	Dk grey br 4/2	100	7 6 6 4	0.0	W/SOME CLAY VARVES AND DARK BROWN 4/3 HUE 10 YR INTERBEDS
128-D	122	Silt	0.00 62	20		Very well sorted		100	7 4 4 6	0.0	
128-D	124	Silt	3.90 62	20	N/A	Very well sorted	Dk grey br 4/2	100	5 4 4 7	0.0	W/SOME DARK BROWN 4/3 HUE 10 YR INTERBEDS
128-D	126	Silt	0.06 62	20	N/A	Very well sorted	Dk grey br 4/2	100	9 5 5 3	0.0	3" SPOON W/SOME CLAY VARVES AND DARK BROWN 4/3 HUE 10 YR INTERBEDS
128-D	128	Silt	3.00 62	10		Very well sorted		100	7 10 5 8	0.0	3" SPOON W/SOME DARK BROWN 4/3 HUE 10 YR INTERBEDS

Geologic Log

Well

Well ID	Depth	Lithology	Min/Max	Avg	GrainShape	Sorting	Color	Recovery	Blow counts	PID	Comments
128-D	130	Silt	3.90 62	10	N/A	Very well sorted	Dk grey br 4/2	100	8 7 3 9	0.0	
128-D	132	Silt	3.90 62	20	N/A	Very well sorted	Dk grey 4/1	100	7 5 4 5	0.0	
128-D	134	Silt	0.06 350	10	N/A	Very well sorted	Dk grey 4/1	100	4 4 6 10	0.0	
128-D	136	Silt	3.90 62	10	N/A	Very well sorted	Dk grey 4/1	100	10 7 5 11	0.0	D.O.
128-D	138	Silt	0.06 350	10	N/A	Moderately well sorted	Dk grey 4/1	100	26 17 11 35	0.0	
128-D	140	Silt	0.06 350	10	N/A	Very well sorted	Dk grey 4/1	100	7 6 7 7	0.0	
128-D	142	Silt	0.06 25,000	10	N/A	Moderately well sorted	Dk grey 4/1	100	9 7 9 15	0.0	
128-D	146	Silt	0.06 350	30	N/A	Very well sorted	Dk grey 4/1	75	11 8 0 0	0.0	28-75/1*
128-D	146	Silt	0.06 350	30	N/A	Very well sorted	Dk grey 4/1	75	11 8 0 0	0.0	28-75/1* Average grain size is borderline clay and silt, some med sand interbeds

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: E.I. DU PONT DE NEMOURS
Name of Facility: Pompton Lakes Works
Location: Pompton Lakes, New Jersey 07442
NJPDES Permit No: NJ 0001350

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831):
This number must be permanently affixed to the well casing.

2 3 0 9 8 9 3 7

Owner's Well Number (As shown on the application or plans):

128-I

Well Completion Date:

12-14-89

Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot);

0.34 feet

Total Depth of Well (one-tenth of a foot):

77.0 feet

Depth to Top of Screen From Top of Casing (one-tenth of a foot):

61.7 feet

Screen Length (feet):

10 feet

Screen or Slot Size:

0.010 inch

Screen Material:

PVC

Casing Material: (PVC, Steel or Other-Specify):

PVC Schedule 40

Casing Diameter (Inches):

4 inches

Static Water Level From Top of Casing at The

10.30 feet

Time of Certification (one-hundredth of a foot):

0.5 gpm

Yield (Gallons per Minute):

16 Hours 0 Minutes

Length of time Well Pumped or Bailed:

ATTACH ON BACK

Lithologic Log:

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment. All information gathered by others (e.g. O.H. Materials, attached well log). This information has not been field verified.

Norman E. Kramer
Professional Engineer's Signature

Norman E. Kramer
Professional Engineer's Name
(Please type or print)

SEAL

NJPE GE34646
Professional Engineer's License #

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS, HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: E.I. DU PONT DE NEMOURS & CO., INC.
Name of Facility: Pompton Lakes Works, Cannonball Rd.
Location: Pompton Lakes, New Jersey 07442
NJPDES Number: NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):
This number must be permanently affixed to the well casing.

2 3 - 0 9 8 9 3 - 7

Longitude (one-tenth of a second): West 074-16-56.51
Latitude (one-tenth of a second): North 041-00-39.83
Elevation of Top of Casing (cap off) (one-hundredth of a foot): PVC=218.79/GRD=219.13
Owners Well Number (As shown on the application or plans): 128-I

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Paul J. Emilius

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Paul J. Emilius

PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

New Jersey P.L.S. License Number 11363

PROFESSIONAL LAND SURVEYOR'S LICENSE #

The Department reserves the right in cases of violation of permit specified ground water limits or Ground Water Quality Standards (N.J.A.C. 7:9-6.1 et seq.) to require that wells be resurveyed to an accuracy of one-hundredth of a second latitude and longitude. This shall not be considered to require a major modification of the NJPDES permit.

Geologic Log

Well

Well ID	Depth	Lithology	Min/Max	Avg	Grain Shape	Sorting	Color	Recovery	Blow counts	PID	Comments
128-D	0	Sand	31.00 25,000	125	Subangular	Very poorly sorted	Grey br 5/2	95.0	9 10 11 23	0.0	0-0.3" ASPHALT PAVEMENT - 3" SPOON; SILTY C-F SAND, AND M-F GRAVEL
128-D	2	Sand	31.00 50,000	350	Subangular	Poorly sorted	Lt olive br 5/4	100	20 20 23 28	0.0	D.O.
128-D	4	Sand	31.00 10,000	500	Subangular	Poorly sorted	Lt olive br 5/4	55	6 4 5 22	0.0	D.O.
128-D	6	Sand	62.50 50,000	350	Subangular	Poorly sorted	Lt olive br 5/4	100	20 23 28 21	0.0	C-F SAND, AND M-F GRAVEL
128-D	8	Sand	62.50 63,000	1500	Subangular	Poorly sorted	Lt olive br 5/4	95.0	20 19 15 28	0.0	D.O.
128-D	10	Sand	62.50 63,000	1500	Subangular	Poorly sorted	Lt olive br 5/4	80	12 14 14 16	0.0	D.O.
128-D	12	Sand	62.50 63,000	1500	Subangular	Poorly sorted	Lt olive br 5/4	100	7 15 12 14	0.0	D.O.
128-D	14	Sand	6.25 76,000	1500	Rounded	Poorly sorted	Olive br 4/4	80	12 28 23 18	0.0	D.O.
128-D	16	Sand	62.50 1,000	250	Rounded	Poorly sorted	Lt olive br 5/4	100	17 17 18 24	0.2	16-16.4 c-f sand & gravel, 16.4-18.0 c-f sand - 3 spoon
128-D	18	Sand	62.50 1,000	250	Rounded	Poorly sorted	Lt olive br 5/4	95.0	20 18 16 16	0.0	
128-D	20	Sand	62.50 350	150	Subangular	Well sorted	Olive br 4/4	85.0	9 9 9 11	0.2	
128-D	22	Sand	62.50 1,000	400	Subangular	Moderately well sorted	Olive br 4/4	100	5 6 6 14	0.1	
128-D	24	Sand	10.00 3,500	400	Rounded	Poorly sorted	Olive br 4/4	100	10 14 16 17	0.1	1/4" thick layer of fine silt in 25' to 25.5' interval

Geologic Log

Well

Well ID	Depth	Lithology	Min/Max	Avg	Grain Shape	Sorting	Color	Recovery	Blow counts	PID	Comments
128-D	26	Sand	62.50 3,500	350	Rounded	Poorly sorted	Olive br 4/4	100	7 5 4 7	0.1	w/sand interbed to coarse sand
128-D	28	Sand	62.50 1,500	300	Rounded	Moderately well sort	Olive br 4/4	100	3 8 8 10	3.6	m-f sand
128-D	30	Sand	62.50 6,000	300	Rounded	Moderately well sort	Olive br 4/4	85.0	6 6 5 8	4.6	c-f sand, little m-f gravel
128-D	32	Sand	62.50 1,500	300	Rounded	Moderately well sort	Olive br 4/4	95.0	5 5 7 16	1.0	c-f sand
128-D	34	N/A	0.00 0	0	N/A	N/A		0	13 19 35 34	0.0	
128-D	36	Sand	62.50 6,300	300	Subangular	Poorly sorted	Olive br 4/4	100	14 12 14 19	0.1	c-f sand, little m-f gravel
128-D	38	Sand	62.50 1,500	350	Subangular	Poorly sorted	Dk grey br 4/2	100	6 17 11 15	0.8	Sweet odor present, c-f sand
128-D	40	Sand	62.50 1,500	350	Subangular	Poorly sorted	Dk grey br 4/2	100	13 23 27 24	0.8	D.O.
128-D	42	Sand	62.50 1,500	350	Subangular	Poorly sorted	Dk grey br 4/2	100	12 15 12 12	1.1	3" Spoon, c-f sand
128-D	44	Sand	62.50 7,500	500	Subangular	Poorly sorted	Dk grey br 4/2	100	12 16 11 12	0.1	c-f sand, little m-f gravel
128-D	46	Sand	62.50 9,500	350	Subangular	Poorly sorted	Olive 4/3	100	10 12 11 16	6.0	D.O.
128-D	48	Sand	62.50 1,000	250	Subangular	Moderately well sort	Olive 4/3	100	9 12 15 16	11.4	c-f sand
128-D	50	Sand	62.50 1,000	250	Subrounded	Moderately well sort	Olive 4/3	100	4 3 5 9	10.2	D.O.

Geologic Log

Well

Well ID	Depth	Lithology	Min/Max	Avg	GrainShape	Sorting	Color	Recovery	Blow counts	PID	Comments
128-D	78	Silt	0.06 250	62.5	Rounded	Moderately well sorted	Olive gr 4/2	60.0	3 5 11 8	0.1	w/some clay interbeds
128-D	80	Silt	0.06 200	50	Rounded	Moderately well sorted	Olive gr 4/2	100	12 5 11 15	0.0	3" spoon - w/some dk. greyish brn. interbeds 4/2 Hue 2.5Y w. clayish interbeds
128-D	82	Silt	0.06 200	50	Rounded	Moderately well sorted	Olive gr 4/2	100	7 12 13 15	0.0	D.O.
128-D	84	Silt	0.06 125	50	Rounded	Well sorted	Dk grey br 4/2	100	7 13 12 11	0.0	3" spoon - w/some dk. brn. 4/3 Hue 10YR interbeds + 1" thick clay interbeds
128-D	86	Silt	0.06 125	50	Rounded	Well sorted	Dk grey 4/1	100	26 17 15 14	0.0	D.O.
128-D	88	Silt	0.06 125	50	Rounded	Well sorted	Dk grey br 4/2	100	16 15 18 30	0.0	D.O.
128-D	90	Sand	3.00 125	62	Subrounded	Well sorted	Olive gr 4/2	100	7 11 12 15	0.0	3" SPOON - W/SOME DARK BROWN 4/2 HUE LO YR INTERBEDS 12/6/89
128-D	92	Silt	3.90 62	50	N/A	Very well sorted	Olive gr 4/2	100	6 5 7 9	0.0	D.O.
128-D	94	Silt	3.90 62	31	N/A	Very well sorted	Dk grey br 4/2	100	5 5 9 10	0.0	W/SOME CLAY VARVES
128-D	96	Silt	3.90 62	31	N/A	Very well sorted	Dk grey br 4/2	100	10 5 5 10	0.0	D.O.
128-D	98	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	100	4 4 5 11	0.0	3" SPOON
128-D	100	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	55	8 8 5 14	0.0	2" SPOON
128-D	102	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	80.0	13 13 14 17	0.0	2" SPOON

Geologic Log

Well

Well ID	Depth	Lithology	Min/Max	Avg	GrainShape	Sorting	Color	Recovery	Blow counts	PID	Comments
128-D	104	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	85	18 15 14 16	0.0	2" SPOON
128-D	106	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	100	11 7 11 10	0.0	3" SPOON
128-D	108	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	100	8 8 7 10	0.0	3" SPOON
128-D	110	Silt	0.00 62	31		Very well sorted		100	11 11 8 7	0.0	3" SPOON
128-D	112	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	90	12 16 16 16	0.0	3" SPOON
128-D	114	Silt	0.00 62	31		Very well sorted		100	5 6 6 8	0.0	
128-D	116	Sand	3.90 75	62.5	N/A	Very well sorted	Dk grey br 4/2	100	9 6 7 10	0.0	W/SOME DARK BROWN 4/3 10 YR HUE INTERBEDS
128-D	118	Silt	0.00 75	31		Well sorted	DK. BRN 3/3 H	100	10 10 17 24	0.0	W/SOME DARK GREYISH BROWN 4/2 HUE 2.5 Y S/SOME CLAY INTERBEDS VARVES
128-D	120	Silt	0.06 62	20	N/A	Very well sorted	Dk grey br 4/2	100	7 6 6 4	0.0	W/SOME CLAY VARVES AND DARK BROWN 4/3 HUE 10 YR INTERBEDS
128-D	122	Silt	0.00 62	20		Very well sorted		100	7 4 4 6	0.0	
128-D	124	Silt	3.90 62	20	N/A	Very well sorted	Dk grey br 4/2	100	5 4 4 7	0.0	W/SOME DARK BROWN 4/3 HUE 10 YR INTERBEDS
128-D	126	Silt	0.06 62	20	N/A	Very well sorted	Dk grey br 4/2	100	9 5 5 3	0.0	3" SPOON W/SOME CLAY VARVES AND DARK BROWN 4/3 HUE 10 YR INTERBEDS
128-D	128	Silt	3.00 62	10		Very well sorted		100	7 10 5 8	0.0	3" SPOON W/SOME DARK BROWN 4/3 HUE 10 YR INTERBEDS

Geologic Log

Well

Well ID	Depth	Lithology	Min/Max	Avg	GrainShape	Sorting	Color	Recovery	Blow counts	PID	Comments
128-D	130	Silt	3.90 62	10	N/A	Very well sorted	Dk grey br 4/2	100	8 7	0.0	
128-D	132	Silt	3.90 62	20	N/A	Very well sorted	Dk grey 4/1	100	7 5 4 5	0.0	
128-D	134	Silt	0.06 350	10	N/A	Very well sorted	Dk grey 4/1	100	4 4 6 10	0.0	
128-D	136	Silt	3.90 62	10	N/A	Very well sorted	Dk grey 4/1	100	10 7 5 11	0.0	D.O.
128-D	138	Silt	0.06 350	10	N/A	Moderately well sorted	Dk grey 4/1	100	26 17 11 35	0.0	
128-D	140	Silt	0.06 350	10	N/A	Very well sorted	Dk grey 4/1	100	7 6 7 7	0.0	
128-D	142	Silt	0.06 25,000	10	N/A	Moderately well sorted	Dk grey 4/1	100	9 7 9 15	0.0	
128-D	146	Silt	0.06 350	30	N/A	Very well sorted	Dk grey 4/1	75	11 8 0 0	0.0	28-75/1*
128-D	146	Silt	0.06 350	30	N/A	Very well sorted	Dk grey 4/1	75	11 8 0 0	0.0	28-75/1* Average grain size is borderline clay and silt, some med sand interbeds

GROUND WATER
MONITORING WELL CERTIFICATION - FORM A - AS-BUILT CERTIFICATION
(One form must be completed for each well)

Name of Permittee: E.I. DU PONT DE NEMOURS
Name of Facility: Pompton Lakes Works
Location: Pompton Lakes, New Jersey 07442
NJPDES Permit No: NJ 0001350

ENGINEER'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section (609-984-6831):

This number must be permanently affixed to the well casing.

2 3 0 9 8 9 0 2

Owner's Well Number (As shown on the application or plans):

128-D

Well Completion Date:

12-11-89

Distance from Top of Casing (cap off) to ground surface (one-hundredth of a foot);

0.40 feet

Total Depth of Well (one-tenth of a foot):

148.0 feet

Depth to Top of Screen From Top of Casing (one-tenth of a foot):

125.6 feet

Screen Length (feet):

20 feet

Screen or Slot Size:

0.010 inch

Screen Material:

PVC

Casing Material: (PVC, Steel or Other-Specify):

PVC Schedule 40

Casing Diameter (Inches):

4 inches

Static Water Level From Top of Casing at The

Time of Certification (one-hundredth of a foot):

11.50 feet

Yield (Gallons per Minute):

0.5 gpm

Length of time Well Pumped or Bailed:

14 Hours 0 Minutes

Lithologic Log:

ATTACH ON BACK

AUTHENTICATION:

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitted false information including the possibility of fine and imprisonment. All information gathered by others (e.g. O.H. Materials, attached well log). This information has not been field verified.

NEKramer
Professional Engineer's Signature

Norman E. Kramer
Professional Engineer's Name
(Please type or print)

SEAL

NJPE GE34646
Professional Engineer's License #

THIS FORM MUST BE COMPLETED BY THE PERMITTEE OR HIS, HER AGENT

GROUND WATER MONITORING WELL CERTIFICATION - FORM B - LOCATION CERTIFICATION

Name of Permittee: E.I. DU PONT DE NEMOURS & CO., INC.

Name of Facility: Pompton Lakes Works, Cannonball Rd.

Location: Pompton Lakes, New Jersey 07442

NJPDES Number: NJ

LAND SURVEYOR'S CERTIFICATION

Well Permit Number (As assigned by NJDEP's Water Allocation Section, 609-984-6831):

This number must be permanently affixed to the well casing.

2 3 - 0 9 8 9 0 - 2

Longitude (one-tenth of a second):

West 074-16-57.39

Latitude (one-tenth of a second):

North 041-00-39.42

Elevation of Top of Casing (cap off) (one-hundredth of a foot):

PVC=219.00/GRD=219.40

Owners Well Number (As shown on the application or plans):

128-D

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Paul J. Emilius

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

Paul J. Emilius

PROFESSIONAL LAND SURVEYOR'S NAME
(Please print or type)

SEAL

New Jersey P.L.S. License Number 11363

PROFESSIONAL LAND SURVEYOR'S LICENSE #

The Department reserves the right in cases of violation of permit specified ground water limits or Ground Water Quality Standards (N.J.A.C. 7:9-6.1 et seq.) to require that wells be resurveyed to an accuracy of one-hundredth of a second latitude and longitude. This shall not be considered to require a major modification of the NJPDES permit.

Geologic Log

Well

Well ID	Depth	Lithology	Min/Max	Avg	GrainShape	Sorting	Color	Recovery	Blow counts	PID	Comments
128-D	0	Sand	31.00 25,000	125	Subangular	Very poorly sorted	Grey br 5/2	95.0	9 10 11 23	0.0	0-0.3' ASPHALT PAVEMENT - 3" SPOON; SILTY C-F SAND, AND M-F GRAVEL
128-D	2	Sand	31.00 50,000	350	Subangular	Poorly sorted	Lt olive br 5/4	100	20 20 23 28	0.0	D.O.
128-D	4	Sand	31.00 10,000	500	Subangular	Poorly sorted	Lt olive br 5/4	55	6 4 5 22	0.0	D.O.
128-D	6	Sand	62.50 50,000	350	Subangular	Poorly sorted	Lt olive br 5/4	100	20 23 28 21	0.0	C-F SAND, AND M-F GRAVEL
128-D	8	Sand	62.50 63,000	1500	Subangular	Poorly sorted	Lt olive br 5/4	95.0	20 19 15 28	0.0	D.O.
128-D	10	Sand	62.50 63,000	1500	Subangular	Poorly sorted	Lt olive br 5/4	80	12 14 14 16	0.0	D.O.
128-D	12	Sand	62.50 63,000	1500	Subangular	Poorly sorted	Lt olive br 5/4	100	7 15 12 14	0.0	D.O.
128-D	14	Sand	6.25 76,000	1500	Rounded	Poorly sorted	Olive br 4/4	80	12 28 23 18	0.0	D.O.
128-D	16	Sand	62.50 1,000	250	Rounded	Poorly sorted	Lt olive br 5/4	100	17 17 18 24	0.2	16-16.4 c-f sand & gravel, 16.4-18.0 c-f sand - 3 spoon
128-D	18	Sand	62.50 1,000	250	Rounded	Poorly sorted	Lt olive br 5/4	95.0	20 18 16 16	0.0	
128-D	20	Sand	62.50 350	150	Subangular	Well sorted	Olive br 4/4	85.0	9 9 9 11	0.2	
128-D	22	Sand	62.50 1,000	400	Subangular	Moderately well sort	Olive br 4/4	100	5 6 6 14	0.1	
128-D	24	Sand	10.00 3,500	400	Rounded	Poorly sorted	Olive br 4/4	100	10 14 16 17	0.1	1/4" thick layer of fine silt in 25' to 25.5' interval

Geologic Log

Well

Well ID	Depth	Lithology	Min/Max	Avg	Grain Shape	Sorting	Color	Recovery	Blow counts	PID	Comments
128-D	26	Sand	62.50 3,500	350	Rounded	Poorly sorted	Olive br 4/4	100	7 5 4 7	0.1	w/sand interbed to coarse sand
128-D	28	Sand	62.50 1,500	300	Rounded	Moderately well sorted	Olive br 4/4	100	3 8 8 10	3.6	m-f sand
128-D	30	Sand	62.50 6,000	300	Rounded	Moderately well sorted	Olive br 4/4	85.0	6 6 5 8	4.6	c-f sand, little m-f gravel
128-D	32	Sand	62.50 1,500	300	Rounded	Moderately well sorted	Olive br 4/4	95.0	5 5 7 16	1.0	c-f sand
128-D	34	N/A	0.00 0	0	N/A	N/A		0	13 19 35 34	0.0	
128-D	36	Sand	62.50 6,300	300	Subangular	Poorly sorted	Olive br 4/4	100	14 12 14 19	0.1	c-f sand, little m-f gravel
128-D	38	Sand	62.50 1,500	350	Subangular	Poorly sorted	Dk grey br 4/2	100	6 17 11 15	0.8	Sweet odor present, c-f sand
128-D	40	Sand	62.50 1,500	350	Subangular	Poorly sorted	Dk grey br 4/2	100	13 23 27 24	0.8	D.O.
128-D	42	Sand	62.50 1,500	350	Subangular	Poorly sorted	Dk grey br 4/2	100	12 15 12 12	1.1	3" Spoon, c-f sand
128-D	44	Sand	62.50 7,500	500	Subangular	Poorly sorted	Dk grey br 4/2	100	12 16 11 12	0.1	c-f sand, little m-f gravel
128-D	46	Sand	62.50 9,500	350	Subangular	Poorly sorted	Olive 4/3	100	10 12 11 16	6.0	D.O.
128-D	48	Sand	62.50 1,000	250	Subangular	Moderately well sorted	Olive 4/3	100	9 12 15 16	11.4	c-f sand
128-D	50	Sand	62.50 1,000	250	Subrounded	Moderately well sorted	Olive 4/3	100	4 3 5 9	10.2	D.O.

Geologic Log

Well

Well ID	Depth	Lithology	Min/Max	Avg	GrainShape	Sorting	Color	Recovery	Blow counts	PID	Comments
128-D	52	Sand	62.50 500	350	Subrounded	Moderately well sort	Dk grey 4/1	100	13 14 19 24	10.4	m-l sand
128-D	54	Sand	62.50 500	350	Subangular	Moderately well sort	Dk grey 4/1	100	16 14 14 8	0.2	D.O.
128-D	56	Sand	62.50 250	175	Subangular	Well sorted	Dk grey 4/1	100	5 6 10 15	0.2	Fine sand
128-D	58	Sand	62.50 250	175	Subangular	Well sorted	Dk grey 4/1	100	11 12 14 15	2.2	D.O.
128-D	60	Sand	62.50 250	175	Subangular	Well sorted	Dk grey 4/1	100	14 14 12 15	2.0	D.O.
128-D	62	Sand	0.06 250	125	Subangular	Well sorted	Dk grey 4/1	100	10 11 14 16	10.2	w/some thin f-silt to clay layers
128-D	64	Sand	0.06 125	100	Subangular	Well sorted	Dk grey 4/1	100	14 11 12 14	12.0	w/some thin dark brown 4/4 Hue 7.5YR interbeds
128-D	66	Silt	3.90 62	50	N/A	Very well sorted	Olive gr 4/2	100	8 5 8 14	2.4	3" Spoon
128-D	68	Sand	0.06 175	100	Subrounded	Well sorted		100	5 5 5 10	8.0	
128-D	70	Sand	3.90 500	175	Rounded	Moderately well sort	Bright Green	100	7 5 8 10	5.0	2" Spoon - silty f-m sand color off chart
128-D	72	Sand	3.90 500	250	Rounded	Moderately well sort	Bright Green	70	2 4 8 10	5.0	D.O. w/some very fine lamination color off chart
128-D	74	Sand	3.90 500	250	Rounded	Moderately well sort	Bright Green	100	7 9 9 9	0.3	color off chart
128-D	76	Sand	0.06 250	62.5	Rounded	Well sorted	Olive gr 4/2	100	11 13 10 14	0.1	w/some clay interbeds

Geologic Log

Well

Well ID	Depth	Lithology	Min/Max	Avg	GrainShape	Sorting	Color	Recovery	Blow counts	PID	Comments
128-D	78	Silt	0.06 250	62.5	Rounded	Moderately well sort	Olive gr 4/2	60.0	3 5 11 8	0.1	w/some clay interbeds
128-D	80	Silt	0.06 200	50	Rounded	Moderately well sort	Olive gr 4/2	100	12 5 11 15	0.0	3" spoon - w/some dk. greyish brn. interbeds 4/2 Hue 2.5Y w. clayish interbeds
128-D	82	Silt	0.06 200	50	Rounded	Moderately well sort	Olive gr 4/2	100	7 12 13 15	0.0	D.O.
128-D	84	Silt	0.06 125	50	Rounded	Well sorted	Dk grey br 4/2	100	7 13 12 11	0.0	3" spoon - w/some dk. brn. 4/3 Hue 10YR interbeds + 1" thick clay interbeds
128-D	86	Silt	0.06 125	50	Rounded	Well sorted	Dk grey 4/1	100	26 17 15 14	0.0	D.O.
128-D	88	Silt	0.06 125	50	Rounded	Well sorted	Dk grey br 4/2	100	16 15 18 30	0.0	D.O.
128-D	90	Sand	3.00 125	62	Subrounded	Well sorted	Olive gr 4/2	100	7 11 12 15	0.0	3" SPOON - W/SOME DARK BROWN 4/2 HUE LO YR INTERBEDS 12/6/89
128-D	92	Silt	3.90 62	50	N/A	Very well sorted	Olive gr 4/2	100	6 5 7 9	0.0	D.O.
128-D	94	Silt	3.90 62	31	N/A	Very well sorted	Dk grey br 4/2	100	5 5 9 10	0.0	W/SOME CLAY VARVES
128-D	96	Silt	3.90 62	31	N/A	Very well sorted	Dk grey br 4/2	100	10 5 5 10	0.0	D.O.
128-D	98	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	100	4 4 5 11	0.0	3" SPOON
128-D	100	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	55	8 8 5 14	0.0	2" SPOON
128-D	102	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	80.0	13 13 14 17	0.0	2" SPOON

Geologic Log

Well

Well ID	Depth	Lithology	Min/Max	Avg	GrainShape	Sorting	Color	Recovery	Blow counts	PID	Comments
128-D	104	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	85	18 15 14 16	0.0	2" SPOON
128-D	106	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	100	11 7 11 10	0.0	3" SPOON
128-D	108	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	100	8 8 7 10	0.0	3" SPOON
128-D	110	Silt	0.00 62	31		Very well sorted		100	11 11 8 7	0.0	3" SPOON
128-D	112	Silt	0.06 62	31	N/A	Very well sorted	Dk grey br 4/2	90	12 16 16 16	0.0	3" SPOON
128-D	114	Silt	0.00 62	31		Very well sorted		100	5 6 6 8	0.0	
128-D	116	Sand	3.90 75	62.5	N/A	Very well sorted	Dk grey br 4/2	100	9 6 7 10	0.0	W/SOME DARK DROWN 4/3 10 YR HUE INTERBEDS
128-D	118	Silt	0.00 75	31		Well sorted	DK. BRN 3/3 H	100	10 10 17 24	0.0	W/SOME DARK GREYISH BROWN 4/2 HUE 2.5 Y S/SOME CLAY INTERBEDS VARVES
128-D	120	Silt	0.06 62	20	N/A	Very well sorted	Dk grey br 4/2	100	7 6 6 4	0.0	W/SOME CLAY VARVES AND DARK BROWN 4/3 HUE 10 YR INTERBEDS
128-D	122	Silt	0.00 62	20		Very well sorted		100	7 4 4 6	0.0	
128-D	124	Silt	3.90 62	20	N/A	Very well sorted	Dk grey br 4/2	100	5 4 4 7	0.0	W/SOME DARK BROWN 4/3 HUE 10 YR INTERBEDS
128-D	126	Silt	0.06 62	20	N/A	Very well sorted	Dk grey br 4/2	100	9 5 5 3	0.0	3" SPOON W/SOME CLAY VARVES AND DARK BROWN 4/3 HUE 10 YR INTERBEDS
128-D	128	Silt	3.00 62	10		Very well sorted		100	7 10 5 8	0.0	3" SPOON W/SOME DARK BROWN 4/3 HUE 10 YR INTERBEDS

Geologic Log

Well

Well ID	Depth	Lithology	Min/Max	Avg	GrainShape	Sorting	Color	Recovery	Blow counts	PID	Comments
128-D	130	Silt	3.90 62	10	N/A	Very well sorted	Dk grey br 4/2	100	8 7	0.0	
128-D	132	Silt	3.90 62	20	N/A	Very well sorted	Dk grey 4/1	100	7 5	0.0	
128-D	134	Silt	0.06 350	10	N/A	Very well sorted	Dk grey 4/1	100	4 5	0.0	
128-D	136	Silt	3.90 62	10	N/A	Very well sorted	Dk grey 4/1	100	4 4 6 10	0.0	
128-D	138	Silt	0.06 350	10	N/A	Moderately well sort	Dk grey 4/1	100	10 7 5 11	0.0	D.O.
128-D	140	Silt	0.06 350	10	N/A	Very well sorted	Dk grey 4/1	100	26 17 11 35	0.0	
128-D	142	Silt	0.06 25,000	10	N/A	Moderately well sort	Dk grey 4/1	100	7 6 7 7	0.0	
128-D	146	Silt	0.06 350	30	N/A	Very well sorted	Dk grey 4/1	75	9 7 9 15	0.0	28-75/1*
128-D	146	Silt	0.06 350	30	N/A	Very well sorted	Dk grey 4/1	75	11 8 0 0	0.0	28-75/1* Average grain size is borderline clay and silt, some med sand interbeds

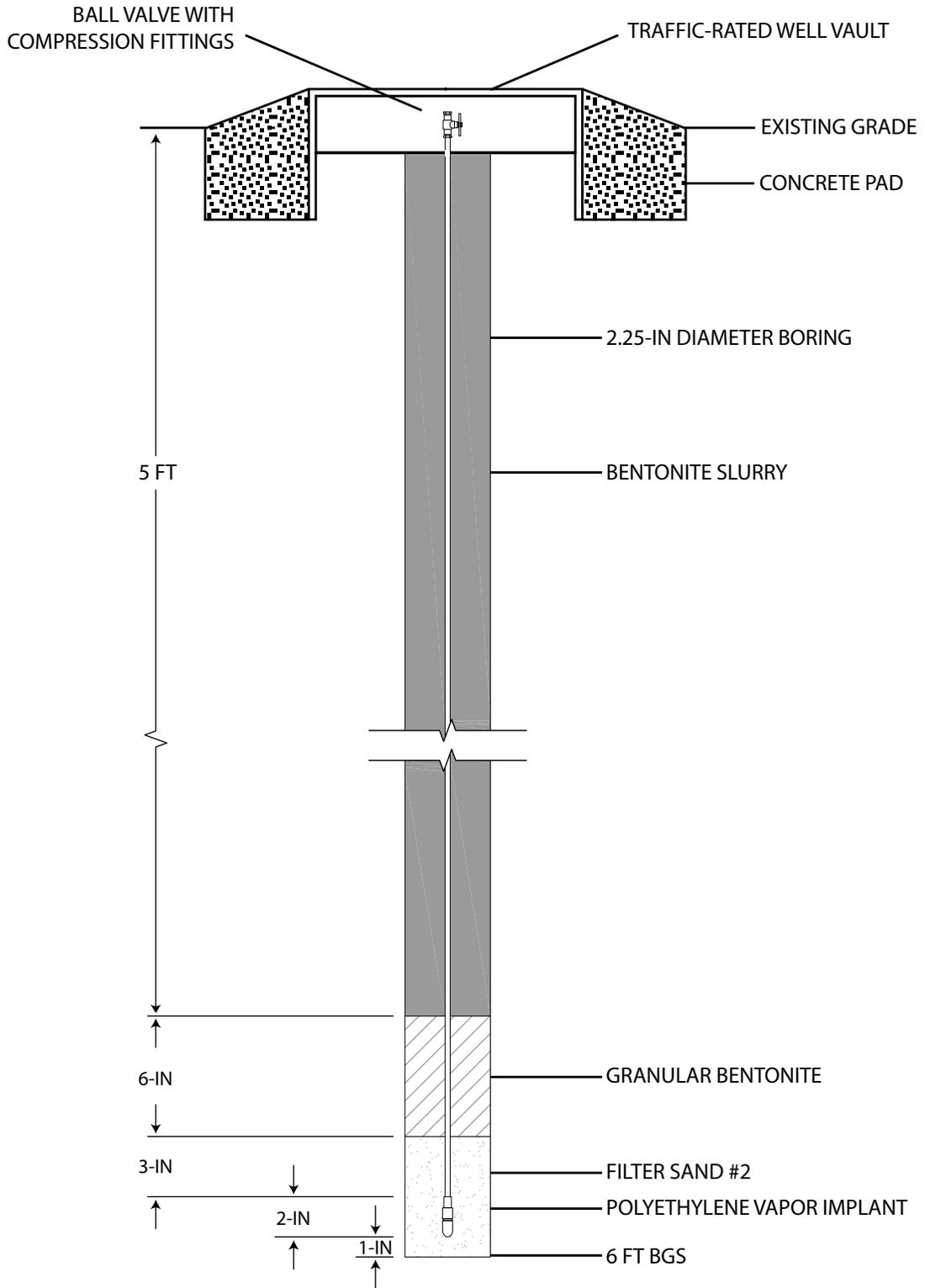


Figure - Soil Gas Probe Construction.pdf

Not to scale

Soil Gas Probe Construction Details
 DuPont Pompton Lakes Works
 Pompton Lakes, New Jersey

Geosyntec
 consultants

Figure B-1

Guelph

April 2014

APPENDIX C
OPERATION SUMMARY

APPENDIX C

OPERATIONS SUMMARY

Table C-1 presents a summary of the operation and maintenance of the enhanced in situ bioremediation (EISB) pilot study from the packer installation and shakedown testing through the end of the completion of the semi-annual monitoring event in January 2014. The activities conducted during the operation of the in-situ pilot study are described in the following subsections.

C.1 SYSTEM SHAKEDOWN

System shakedown was completed on May 20, 2013. Activities completed included the following:

- Inspection of piping and equipment connections
- Confirm there is power at the control panel
- Power up the system
- Test electrical components
- Confirm operation of all valves
- Test water conveyance lines for leaks using fresh water
- Test extraction well pump
- Test pressure switches
- Verify operation of donor and tracer pumps
- Test shutdown alarms
- Confirm operation of level loggers

C.2 PILOT STUDY MONITORING WELLS

A series of wells used for the pilot study were installed between June 1 and 30, 2011 (EW01, IW01, IW02, IW03 and multilevel wells ML02 and ML04). Additionally, a soil gas probe (SGP-01) was installed in the pilot study area on May 6, 2013. Construction logs for each of these locations is provided in Table C-2.

C.3 WATER LEVEL MEASUREMENTS

Manual water level measurements were collected approximately once per week in the surrounding monitoring wells in order to monitor the hydraulic gradient and direction of groundwater flow. A standard Solinst water level meter was used to take measurements in 128-S, 128-I, 128-D, IW01, IW02, IW03, and EW01. A narrow (1/4 inch diameter) Solinst water level meter was used to take measurements in the multilevel wells. Table C-3 presents a summary of the water level measurements in feet below top of casing (ft btoc) and feet above

mean sea level (ft amsl). Hydrographs of the manual water level measurements for the intermediate and shallow zone are presented in Figures C-1 and C-2, respectively.

Pressure transducers were also deployed in the lower zone of EW01, IW01, IW02, IW03, 128-S and 128-I. Hydrographs are presented in Figure C-3 to C-5.

Manual water level measurements collected from ML02 and ML04 were used to evaluate the hydraulic gradient in the pilot test area. Figure C-6 presents the calculated hydraulic gradient data throughout the pilot study.

C.4 GROUNDWATER AND SOIL GAS SAMPLING

Routine groundwater sampling was conducted to assess EISB performance. Table C-1 outlines the dates each event was conducted. Details on the monitoring program are included in Table 2. Samples were analyzed for the parameters outlined in Table 3 of the main document, as detailed in the sampling program in Table 2. Samples were collected for the assessment of VOCs. To support the interpretation of the data, samples for additional parameters such as TOC, anions, DHGs, and sulfide were also collected along with field parameters (DO, ORP, specific conductivity). Samples for microbial characterization were collected at baseline and following the 6 month operation period of the pilot test. A summary of the field and laboratory parameters for the pilot study is presented in Table 3, a summary of the field parameter results is provided in Table 4 and a summary of the target compound results for groundwater and the soil gas probe are provided in Table 5 and Table 6, respectively. Laboratory reports for each sampling event are provided in Appendix F.

C.5 MAINTENANCE INSPECTIONS

C.5.1 DAILY INSPECTIONS

The daily inspection and maintenance activities consist of recording system data and conducting and on-site physical inspection of the control panel for alarms and leaks. Preventative maintenance was performed based on the findings of the inspections. All daily inspection and maintenance activities were recorded and a summary of when these inspections occurred is included in Table C-1.

C.5.2 WEEKLY INSPECTIONS

The weekly inspection and maintenance activities consisted of recording system data and checks on-site and conducting and on-site physical inspection of all visible piping and instrumentation for leaks, clogging, or excessive wear. Preventative maintenance was performed based on the findings of the inspections. Preventative maintenance activities included cleaning of inline valves, cartridge filter change out, cleaning of, reinflation of packers. All weekly inspection and

maintenance activities were recorded and a summary of when these inspections occurred is included in Table C-1.

C.6 AMENDMENTS

C.6.1 BROMIDE TRACER INJECTION

Potassium bromide (KBr) was continuously amended to the re-injected groundwater at a target time weighted average (TWA) bromide concentration of approximately 100 mg/L. A total of roughly 100 kg of KBr (67.2 kg of Br) was introduced into the intermediate zone of the pilot test area between June 24, 2013 to August 16, 2013. Bromide addition was originally planned for up to four weeks, but was extended for another four weeks (through August 16, 2013) to ensure there is sufficient bromide in the study area for evaluation.

C.6.2 SODIUM LACTATE INJECTION

Electron donor was amended to the re-injected groundwater at a target time weighted average of 165 mg/L as lactate. A total of 110 gallons of sodium lactate (60% lactate by weight) was introduced into the intermediate zone of the pilot test area between

C.6.3 BIOAUGMENTATION

Bioaugmentation with 20 liters of KB-1® (a microbial consortium capable of complete and rapid redicuted dechlorination of chlorinated ethenes) was completed on August 2, 2013. A total of 20 liters of KB-1® was injected into the intermediate zone of IW02. Recirculation was shut down on August 3 and 4, 2013) to allow for the culture to acclimate. Recirculation re-commenced on August 5, 2013.

C.7 RECIRCULATION SYSTEM OPERATION

The groundwater recirculation system was officially started on 24 June 2013. The regulatory agencies were notified via e-mail as per the Permit-By-Rule requirements. The system was shut down on December 20, 2013. The initial extraction rate at EW01 was set to 3 GPM. Figure C-3 shows the drawdown in EW01 and mounding in IW02 over time. By early September drawdown was substantial and extraction rates had to be decreased down to 2 GPM to continue operation. The system was shutdown on October 8, 2013 to complete mechanical and chemical rehabilitation activities (Section C.8). Following rehabilitation the system was turned back on November 13, 2013 at an extraction rate of 3 GPM. Once again the extraction rate was turned down to 2 GPM again on November 27 due to substantial drawdown in EW01. By December 19th the system was unable to operate at an extraction rate greater than 1.4 GPM without causing a system shutdown by triggering the low water level switch in EW01 by drawing the water level below 60 ft btoc.

A total of 449, 354 gallons of groundwater was recirculated over the pilot test period in the intermediate zone. Volumes by month are summarized below:

Month	Dates	Monthly Volume (GPM)	Cumulative Volume (GPM)
Month 1	6/24/13 - 7/24/13	93,210	93,210
Month 2	7/24/13 - 8/23/13	101,328	194,538
Month 3	8/23/13 - 9/23/13	110,871	305,409
Month 4	9/23/13 - 10/08/13	37,651	343,060
Month 5	11/13/13 - 11/21/13	33,352	376,412
Month 6	11/21/13 - 12/20/13	73,122	449,534

The reduced extraction capacity reduced the amount of groundwater recirculated over time as seen in the above table.

C.7.1 EFFECT OF INJECTING ON GROUNDWATER

The groundwater mounding at IW02 ranged from 2.5 feet at early time to 3.0 feet by December 2013. The effect of injecting groundwater observed in adjacent injection wells IW01 and IW03 (Figure C-4) was approximately 3.5 and 2.5 inches, respectively.

C.7.2 HYDRAULIC GRADIENT

Estimations of the hydraulic gradient under pumping conditions ranged from 0.2 to 0.5 feet/feet (ft/ft). This estimate was obtained by using water level measurements from multiple time points from the lower zone of both the injection well (IW02) and extraction well (EW01) under pumping conditions. Gradient evaluations for ML02 to ML04 were completed and compared at several time points (Figure C-6) and show that at early time, under non-recirculation conditions that groundwater flow was northwest (towards the site), then by December 2013 it was southeast (toward Pompton Lake). Under recirculation conditions the gradients were variable but indicate that in the intermediate zone that groundwater was southeast towards EW01.

C.8 EW01 REHABILITATION

C.8.1 MECHANICAL REHABILITATION

Mechanical rehabilitation of EW01 occurred between October 9 and October 10, 2013. This involved the disconnection of the power to the extraction well vault, removing the packer and all well components in EW01. A licensed state driller used a combination of surging, purging, air lifting, and water jetting techniques to remove the silt from the bottom of EW01. No sediment was found in the bottom of EW01. Evidence of biological fouling was found on the pump and inside of the discharge piping. Based on these findings, chemical treatment of EW01 was completed.

C.8.2 CHEMICAL REHABILITATION

Chemical rehabilitation of EW01 using Nu-Well 110 (granular acid) and Nu-Well 310 (bio-acid dispersant that breaks down biofilm and disperses mineral salts) occurred between November 4 and November 13, 2013. Both of these products are specifically designed for use in well rehabilitation and were used in accordance with the manufacturer's specifications. Following treatment EW01 was thoroughly pumped until the pH of the pumped water was within +/- 1 standard units of groundwater pH prior to the treatment. Following rehabilitation the system was restarted.

C.9 BOREHOLE DILUTION TESTING

Borehole dilution tests using potassium bromide were conducted before and after the EISB pilot test in 2011 and 2014, respectively. Interpretation of the borehole dilution test data proceeds by solving the decay of tracer over time for, providing multiple point dilution tests at 7 individual levels. The tests provides vertical profiling data of groundwater velocity at monitoring depths equivalent to the multilevel monitoring well sampling ports. The tracer was released in the borehole column and the decay of the tracer with time was used to determine the in-situ groundwater flow velocity (Pitak *et al.*, 2007). A 500 milligram per liter (mg/L) solution of tracer (as bromide) was introduced across the entire borehole length. Figure D-1 presents the borehole dilution test equipment assembly.

C.9.1 BASELINE BOREHOLE DILUTION TEST 2011

The baseline borehole dilution test was conducted on July, 20 2011 to estimate the horizontal velocity of groundwater in the formation surrounding IW02. The depletion of the tracer concentration was monitored at seven different intervals (i.e., 10, 17, 27, 37, 47, 57 and 67 ft bgs) using an ion selective electrode. Figure D-1 shows a schematic of the borehole dilution test assembly. Groundwater samples for both field and laboratory analysis were collected over a three day period for the upper depth intervals (i.e., 10, 17, 27, and 37 ft bgs) and over a seven day period for the lower depth intervals (i.e., 47, 57 and 67 ft bgs), until tracer concentrations

were at least 90 percent (%) depleted. Appendix D presents the sampling details, sampling schedule, and a summary of the samples that were collected over the duration of the test. Groundwater samples collected from the 17 and 57 ft bgs depth intervals were submitted for laboratory analysis (EPA Method 300.0) to validate the field data. A copy of the laboratory analytical data report is provided in Appendix F. Figure D-2 presents the bromide concentration trend plot (in mg/L). Figures D-2 to D-9 present the depletion of bromide in each depth interval. Bromide was depleted in the upper depth intervals within 3 days following tracer release and within 7 days in the lower depth intervals.

C.9.2 BOREHOLE DILUTION TEST POST PILOT TEST 2014

A second borehole dilution test was conducted on January 20, 2014 to estimate the horizontal velocity of groundwater in the formation surrounding IW02 following the EISB pilot test. The depletion of the tracer concentration was monitored at six different intervals (i.e., 17, 27, 37, 47, 57 and 67 ft bgs) using an ion selective electrode. Figure D-1 shows a schematic of the borehole dilution test assembly. Groundwater samples for both field and laboratory analysis were collected over a eight day period for both the upper and lower depth intervals (17, 27, 37,47, 57 and 67 ft bgs), until tracer concentrations were at least 90 percent (%) depleted. Appendix D presents the sampling details, sampling schedule, and a summary of the samples that were collected over the duration of the test. Groundwater samples collected from the 47 and 67 ft bgs depth intervals were submitted for laboratory analysis (EPA Method 300.0) to validate the field data. A copy of the laboratory analytical data report is provided in Appendix F. Figure D-10 presents the bromide concentration trend plot (in mg/L). Figures D-11 to D-16 present the depletion of bromide in each depth interval.

C.10 PORE VOLUME ESTIMATION

The pore volume estimate for the pilot study was estimated to be about 70,000 gallons using an intermediate zone thickness of 25 feet, a porosity of 25% and a pilot study capture zone of approximately 1500 ft² (49 feet between EW01 and IW02, 15 ft from the center recirculation line to IW03). Analysis of the flow data indicate that just under 7 pore volumes were recirculated during the study based on the total recirculation volume of 449,354 gallons.

C.11 CONNECTIVITY TESTING IN ML02

Bromide detections were found in ML02-01 (14.62 feet below ground surface) starting July 23, 2013. It was suspected that ML02-01 may be connected to one of the deeper ports (ML02-02)

A short connectivity test was completed on August 28th between ML02-01 and ML02-02 (adjacent multilevel port). ML02-02 was pumped using a peristaltic pump and waterlevels at ML02-01 were monitored. During pumping the the water level in ML02-01 dropped and once pumping had ceased ML02-01, the water level recovered quickly. The results of this test

confirm that these two ports are hydraulically connected. The data obtained from ML02-01 should not be used for evaluation of the pilot study.

C.12 ATTACHMENTS

Table C-1	Operational Summary Table
Table C-2	Well Construction Summary
Table C-3	Depth to Groundwater
Table C-4	Bromide Tracer Results
Figure C-1	Water Level Elevations Intermediate Zone
Figure C-2	Water Level Elevations Shallow Zone
Figure C-3	IW02 (Lower) and EW-01 (Lower)
Figure C-4	IW01 (Lower) and IW03 (Lower)
Figure C-5	128-S and 128-I Hydrograph
Figure C-6	Hydraulic Gradient between ML02 and ML04
Attachment C-1	Calibration Curves for Potassium Bromide Tracer

TABLES

**TABLE C-1
DEPTH TO GROUNDWATER
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey**

Well ID	Top of Casing Elevation (ft amsl)	Date	Time	Depth to Water	Groundwater Elevation
		(mm/dd/yyyy)	(hh:mm)	(ft btoc)	(ft amsl)
128-S	218.99	5/1/2013	12:40	9.9	209.09
		6/21/2013	16:03	8.3	210.69
		6/24/2013	11:40	8.78	210.21
		07/19/13	9:44	8.93	210.06
		07/23/13	14:49	9.05	209.94
		07/29/13	15:15	9.25	209.74
		08/06/13	16:10	9.48	209.51
		08/08/13	13:15	9.52	209.47
		08/16/13	10:47	9.66	209.33
		08/20/13	13:35	9.76	209.23
		08/29/13	13:02	10.01	208.98
		09/05/13	13:56	10.22	208.77
		09/16/13	11:55	10.53	208.46
		09/19/13	14:34	10.62	208.37
		10/02/13	15:14	10.92	208.07
		10/16/13	10:30	11.25	207.74
		11/19/13	NR	12.02	206.97
		11/20/13	NR	12.04	206.95
		11/26/13	12:25	12.18	206.81
		12/04/13	11:53	12.20	206.79
12/11/13	12:16	12.28	206.71		
12/23/13	12:28	12.21	206.78		
01/15/14	NR	11.58	207.41		
128-I	218.79	5/2/2013	9:00	9.56	209.23
		6/21/2013	16:19	8.09	210.70
		6/24/2013	11:46	8.07	210.72
		07/19/13	9:47	8.75	210.04
		07/23/13	14:34	8.80	209.99
		07/29/13	15:05	9.07	209.72
		08/06/13	16:00	9.29	209.50
		08/08/13	13:12	9.26	209.53
		08/16/13	10:44	9.51	209.28
		08/20/13	13:40	9.63	209.16
		08/29/13	12:51	9.94	208.85
		09/05/13	13:45	10.10	208.69
		09/16/13	11:45	10.42	208.37
		09/19/13	14:26	10.54	208.25
		10/02/13	15:03	10.57	208.22
		10/16/13	10:19	10.90	207.89
		11/20/13	NR	11.97	206.82
		11/26/13	12:35	12.09	206.70
		12/04/13	12:06	12.27	206.52
		12/11/13	12:06	12.15	206.64
12/23/13	12:09	12.12	206.67		
01/15/14	NR	11.40	207.39		
EW01-Upper	218.71	5/16/2013	14:45	9.50	209.21
		6/21/2013	15:07	7.88	210.83
		6/24/2013	13:48	7.86	210.85
		6/28/2013	10:48	7.95	210.76
		07/09/13	12:18	8.38	210.33
		07/19/13	10:53	8.46	210.25
		07/23/13	8:54	8.59	210.12
		07/26/13	13:40	8.53	210.18
		08/06/13	10:20	9.08	209.63
		08/08/13	13:34	9.07	209.64
10/16/13	8:56	10.79	207.92		

**TABLE C-1
DEPTH TO GROUNDWATER
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey**

Well ID	Top of Casing Elevation (ft amsl)	Date (mm/dd/yyyy)	Time (hh:mm)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
IW01-Upper	217.65	5/14/2013	10:37	9.64	208.01
		6/21/2013	16:34	7.98	209.67
		6/24/2013	11:31	7.95	209.70
		07/03/13	11:55	8.11	209.54
		07/09/13	11:45	8.45	209.20
		07/10/13	13:42	8.25	209.40
		07/19/13	9:54	8.54	209.11
		07/23/13	13:50	8.68	208.97
		07/26/13	12:20	8.78	208.87
		07/29/13	14:00	8.87	208.78
		08/06/13	15:23	9.11	208.54
		08/08/13	12:05	9.19	208.46
		08/16/13	10:37	9.31	208.34
		08/20/13	13:05	9.41	208.24
		08/22/13	8:44	9.48	208.17
		08/28/13	15:03	9.64	208.01
		09/05/13	13:11	9.85	207.80
		09/13/13	14:43	10.09	207.56
		09/19/13	13:34	10.25	207.40
		09/25/13	11:25	10.20	207.45
		10/02/13	13:45	10.56	207.09
		10/16/13	10:06	10.92	206.73
		11/19/13	NR	11.71	205.94
11/26/13	10:00	11.82	205.83		
12/04/13	11:35	11.85	205.80		
12/11/13	11:00	11.94	205.71		
12/23/13	11:42	11.94	205.71		
IW01-Lower	217.65	5/14/2013	14:38	9.73	207.92
		6/21/2013	16:36	8.06	209.59
		6/24/2013	11:33	8.04	209.61
		07/04/13	11:53	8.15	209.50
		07/09/13	11:43	8.55	209.10
		07/10/13	13:42	8.30	209.35
		07/19/13	9:53	8.92	208.73
		07/23/13	13:45	8.45	209.20
		07/26/13	12:21	8.87	208.78
		07/29/13	14:01	8.65	209.00
		08/06/13	15:22	9.18	208.47
		08/08/13	12:03	9.18	208.47
		08/16/13	10:37	9.41	208.24
		08/20/13	13:05	9.50	208.15
		08/22/13	8:45	9.57	208.08
		08/28/13	15:04	9.73	207.92
		09/05/13	13:10	9.96	207.69
		09/13/13	14:43	10.23	207.42
		09/19/13	13:35	10.39	207.26
		09/25/13	11:35	10.55	207.10
		10/02/13	13:44	10.75	206.90
		10/16/13	10:06	11.06	206.59
		11/19/13	NR	11.82	205.83
11/26/13	9:50	11.96	205.69		
12/04/13	11:36	12.00	205.65		
12/11/13	11:01	12.04	205.61		
12/23/13	11:42	12.09	205.56		
01/15/14	NR	11.51	206.14		

**TABLE C-1
DEPTH TO GROUNDWATER
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey**

Well ID	Top of Casing Elevation (ft amsl)	Date (mm/dd/yyyy)	Time (hh:mm)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
IW02-Upper	217.59	6/4/2013	10:15	8.38	209.21
		6/21/2013	16:53	7.24	210.35
		6/24/2013	15:34	7.22	210.37
		6/28/2013	13:16	7.32	210.27
		07/19/13	10:02	7.80	209.79
		07/23/13	12:11	7.96	209.63
		07/26/13	12:59	8.05	209.54
		07/29/13	14:55	8.14	209.45
		08/06/13	15:07	8.36	209.23
		08/08/13	13:05	8.43	209.16
		08/20/13	13:50	8.28	209.31
		08/22/13	8:50	8.73	208.86
		10/16/13	10:01	10.21	207.38
IW03-Upper	217.58	5/15/2013	11:30	9.62	207.96
		6/21/2013	17:02	7.98	209.60
		6/24/2013	11:26	7.95	209.63
		6/28/2013	12:10	8.01	209.57
		07/04/13	10:34	8.13	209.45
		07/09/13	10:49	8.48	209.10
		07/10/13	9:40	8.26	209.32
		07/19/13	10:22	8.55	209.03
		07/23/13	11:17	8.67	208.91
		07/26/13	11:27	8.78	208.80
		07/29/13	12:35	8.87	208.71
		08/06/13	14:12	9.13	208.45
		08/08/13	11:25	9.18	208.40
		08/16/13	10:28	9.32	208.26
		08/20/13	12:30	9.46	208.12
		08/22/13	8:36	9.48	208.10
		08/28/13	14:41	9.65	207.93
		09/05/13	12:07	9.87	207.71
		09/13/13	13:48	10.09	207.49
		09/19/13	11:42	10.27	207.31
		09/25/13	11:55	10.50	207.08
		10/02/13	12:27	10.57	207.01
		10/16/13	9:33	10.93	206.65
11/19/13	NR	11.70	205.88		
11/26/13	9:12	11.81	205.77		
12/04/13	10:33	11.77	205.81		
12/11/13	10:28	11.89	205.69		
12/23/13	11:01	11.95	205.63		
01/15/14	NR	11.35	206.23		
IW03-Lower	217.58	5/16/2013	10:25	9.62	207.96
		6/21/2013	17:03	8.03	209.55
		6/24/2013	11:27	8.08	209.50
		6/28/2013	12:11	8.15	209.43
		07/03/13	10:27	8.25	209.33
		07/09/13	10:49	8.50	209.08
		07/10/13	9:40	8.20	209.38
		07/19/13	10:22	8.58	209.00
		07/23/13	11:16	8.55	209.03
		07/26/13	11:26	8.81	208.77
		07/29/13	12:36	8.92	208.66
		08/06/13	14:13	9.11	208.47
		08/08/13	11:25	9.17	208.41
		08/16/13	10:28	9.36	208.22
		08/20/13	12:30	9.48	208.10
		08/22/13	8:35	9.51	208.07
08/28/13	14:40	9.70	207.88		
09/05/13	12:06	9.93	207.65		
09/13/13	13:48	10.21	207.37		

**TABLE C-1
DEPTH TO GROUNDWATER
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey**

Well ID	Top of Casing Elevation (ft amsl)	Date (mm/dd/yyyy)	Time (hh:mm)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
IW03-Lower	217.58	09/19/13	11:41	10.37	207.21
		09/25/13	12:00	10.40	207.18
		10/02/13	12:26	10.69	206.89
		10/16/13	9:33	11.06	206.52
		11/19/13	NR	11.80	205.78
		11/26/13	9:11	11.92	205.66
		12/04/13	10:34	11.96	205.62
		12/11/13	10:21	12.00	205.58
		12/23/13	11:01	12.09	205.49
ML02-01	217.80	01/15/14	NR	11.50	206.08
		5/14/2013	8:50	9.70	208.10
		6/24/2013	11:53	7.75	210.05
		07/02/13	14:30	7.91	209.89
		07/09/13	9:59	8.21	209.59
		07/10/13	13:12	8.00	209.80
		07/12/13	10:20	8.07	209.73
		07/19/13	10:15	8.64	209.16
		07/23/13	10:27	8.79	209.01
		07/26/13	10:30	8.89	208.91
		07/29/13	11:32	8.98	208.82
		07/31/13	10:45	9.02	208.78
		08/06/13	11:28	9.21	208.59
		08/08/13	10:31	9.27	208.53
		08/14/13	NR	9.88	207.92
		08/16/13	10:15	9.42	208.38
		08/20/13	10:24	9.52	208.28
		08/27/13	9:15	9.74	208.06
		09/05/13	10:40	10.05	207.75
		09/12/13	8:48	10.11	207.69
		09/19/13	10:43	10.37	207.43
09/24/13	9:14	10.15	207.65		
10/02/13	10:54	10.68	207.12		
10/16/13	9:20	11.02	206.78		
11/18/13	NR	11.82	205.98		
11/26/13	8:59	11.88	205.92		
12/04/13	10:11	11.92	205.88		
12/11/13	9:50	11.95	205.85		
12/18/13	8:50	11.94	205.86		
12/23/13	9:40	11.98	205.82		
01/13/14	NR	11.07	206.73		
ML02-02	217.80	5/15/2013	10:25	9.69	208.11
		6/24/2013	11:54	7.73	210.07
		07/02/13	14:31	7.91	209.89
		07/09/13	9:59	8.21	209.59
		07/10/13	13:12	7.98	209.82
		07/12/13	10:20	8.05	209.75
		07/19/13	10:16	8.63	209.17
		07/23/13	10:27	8.79	209.01
		07/26/13	10:31	8.89	208.91
		07/29/13	11:33	8.96	208.84
		07/31/13	10:45	9.00	208.80
		08/06/13	11:29	9.16	208.64
		08/08/13	10:31	9.19	208.61
		08/14/13	NR	9.41	208.39
		08/16/13	10:15	9.39	208.41
		08/20/13	10:24	9.48	208.32
		08/27/13	9:15	9.70	208.10
		09/05/13	10:41	9.93	207.87
		09/12/13	8:49	10.11	207.69
		09/19/13	10:44	10.33	207.47
		09/24/13	9:15	10.10	207.70

**TABLE C-1
DEPTH TO GROUNDWATER
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey**

Well ID	Top of Casing Elevation (ft amsl)	Date (mm/dd/yyyy)	Time (hh:mm)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
ML02-02	217.80	10/02/13	10:55	10.59	207.21
		10/16/13	9:20	11.00	206.80
		11/18/13	NR	11.74	206.06
		11/26/13	8:59	11.82	205.98
		12/04/13	10:12	11.88	205.92
		12/11/13	9:51	11.93	205.87
		12/18/13	8:50	12.04	205.76
		12/23/13	9:40	12.00	205.80
ML02-03	217.80	01/13/14	NR	11.12	206.68
		5/14/2013	15:10	9.69	208.11
		6/24/2013	11:54	7.78	210.02
		07/02/13	14:31	7.92	209.88
		07/09/13	9:59	7.97	209.83
		07/10/13	13:13	7.68	210.12
		07/12/13	10:21	8.05	209.75
		07/19/13	10:16	8.38	209.42
		07/23/13	10:26	8.81	208.99
		07/26/13	10:31	8.61	209.19
		07/29/13	11:33	8.70	209.10
		07/31/13	10:46	8.76	209.04
		08/06/13	11:30	8.89	208.91
		08/08/13	10:32	8.98	208.82
		08/14/13	NR	9.16	208.64
		08/16/13	10:16	9.12	208.68
		08/20/13	10:25	9.23	208.57
		08/27/13	9:16	9.40	208.40
		09/05/13	10:42	9.66	208.14
		09/12/13	8:49	9.99	207.81
		09/19/13	10:45	10.16	207.64
		09/24/13	9:16	9.98	207.82
		10/02/13	10:55	10.49	207.31
10/16/13	9:21	10.99	206.81		
11/18/13	NR	11.57	206.23		
11/26/13	9:00	11.65	206.15		
12/04/13	10:13	11.75	206.05		
12/11/13	9:51	11.82	205.98		
12/18/13	8:50	11.90	205.90		
12/23/13	9:41	12.00	205.80		
01/13/14	NR	11.08	206.72		
ML02-04	217.80	5/14/2013	13:35	9.69	208.11
		6/24/2013	11:55	7.67	210.13
		07/02/13	14:32	7.93	209.87
		07/09/13	10:00	8.15	209.65
		07/10/13	13:13	7.90	209.90
		07/12/13	10:21	8.05	209.75
		07/19/13	10:17	8.57	209.23
		07/23/13	10:26	8.82	208.98
		07/26/13	10:31	8.78	209.02
		07/29/13	11:34	8.89	208.91
		07/31/13	10:47	8.96	208.84
		08/06/13	11:30	9.11	208.69
		08/08/13	10:33	9.16	208.64
		08/14/13	NR	9.35	208.45
		08/16/13	10:16	9.34	208.46
		08/20/13	10:25	9.44	208.36
		08/27/13	9:16	9.66	208.14
		09/05/13	10:43	9.89	207.91
		09/12/13	8:50	10.12	207.68
		09/19/13	10:45	10.30	207.50
		09/24/13	9:17	10.08	207.72
		10/02/13	10:56	10.60	207.20

**TABLE C-1
DEPTH TO GROUNDWATER
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey**

Well ID	Top of Casing Elevation (ft amsl)	Date (mm/dd/yyyy)	Time (hh:mm)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
ML02-04	217.80	10/16/13	9:21	10.99	206.81
		11/18/13	NR	11.73	206.07
		11/26/13	9:01	11.82	205.98
		12/04/13	10:13	11.87	205.93
		12/11/13	9:52	11.92	205.88
		12/18/13	8:51	11.98	205.82
		12/23/13	9:41	12.00	205.80
ML02-05	217.80	01/13/14	NR	11.06	206.74
		5/14/2013	11:35	9.71	208.09
		6/24/2013	11:56	7.71	210.09
		07/02/13	14:33	7.92	209.88
		07/09/13	10:00	8.20	209.60
		07/10/13	13:14	7.99	209.81
		07/12/13	10:21	8.04	209.76
		07/19/13	10:17	8.64	209.16
		07/23/13	10:25	8.78	209.02
		07/26/13	10:32	8.84	208.96
		07/29/13	11:34	8.94	208.86
		07/31/13	10:47	9.02	208.78
		08/06/13	11:31	9.17	208.63
		08/08/13	10:33	9.22	208.58
		08/14/13	NR	9.42	208.38
		08/16/13	10:24	9.40	208.40
		08/20/13	10:26	9.51	208.29
		08/27/13	9:16	9.72	208.08
		09/05/13	10:44	9.95	207.85
		09/12/13	8:51	10.12	207.68
		09/19/13	10:46	10.33	207.47
09/24/13	9:18	10.12	207.68		
10/02/13	10:57	10.64	207.16		
10/16/13	9:22	10.99	206.81		
11/18/13	NR	11.78	206.02		
11/26/13	9:01	11.84	205.96		
12/04/13	10:14	11.89	205.91		
12/11/13	9:54	11.94	205.86		
12/18/13	8:51	11.97	205.83		
12/23/13	9:42	12.00	205.80		
01/13/14	NR	11.07	206.73		
ML02-06	217.80	5/14/2013	10:07	9.69	208.11
		6/24/2013	11:56	7.71	210.09
		07/02/13	14:33	7.92	209.88
		07/09/13	10:00	8.20	209.60
		07/10/13	13:14	7.98	209.82
		07/12/13	10:21	8.04	209.76
		07/19/13	10:18	8.63	209.17
		07/23/13	10:25	8.76	209.04
		07/26/13	10:32	8.84	208.96
		07/29/13	11:35	8.94	208.86
		07/31/13	10:48	9.02	208.78
		08/06/13	11:31	9.18	208.62
		08/08/13	10:33	9.25	208.55
		08/14/13	NR	9.42	208.38
		08/16/13	10:24	9.40	208.40
		08/20/13	10:26	9.53	208.27
		08/27/13	9:17	9.72	208.08
		09/05/13	10:45	9.95	207.85
		09/12/13	8:51	10.12	207.68
		09/19/13	10:47	10.34	207.46
		09/24/13	9:19	10.12	207.68
10/02/13	10:57	10.65	207.15		
10/16/13	9:23	10.99	206.81		
11/18/13	NR	11.78	206.02		

**TABLE C-1
DEPTH TO GROUNDWATER
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey**

Well ID	Top of Casing Elevation (ft amsl)	Date (mm/dd/yyyy)	Time (hh:mm)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
ML02-06	217.80	11/26/13	9:02	11.86	205.94
		12/04/13	10:14	11.90	205.90
		12/11/13	9:55	11.95	205.85
		12/18/13	8:52	11.98	205.82
		12/23/13	9:42	11.98	205.82
		01/13/14	NR	11.07	206.73
ML02-07	217.8	5/15/2013	12:20	9.71	208.09
		6/24/2013	11:57	7.77	210.03
		07/02/13	14:34	7.98	209.82
		07/09/13	10:01	8.34	209.46
		07/10/13	13:15	8.01	209.79
		07/12/13	10:27	8.03	209.77
		07/19/13	10:18	8.77	209.03
		07/23/13	10:24	8.70	209.10
		07/26/13	10:33	8.98	208.82
		07/29/13	11:35	9.08	208.72
		07/31/13	10:48	9.14	208.66
		08/06/13	11:32	9.21	208.59
		08/08/13	10:34	9.26	208.54
		08/14/13	NR	9.55	208.25
		08/16/13	10:25	9.49	208.31
		08/20/13	10:26	9.63	208.17
		08/27/13	9:17	9.84	207.96
		09/05/13	10:45	10.02	207.78
		09/12/13	8:52	10.26	207.54
		09/19/13	10:47	10.47	207.33
		09/24/13	9:20	10.25	207.55
		10/02/13	10:58	10.79	207.01
		10/16/13	9:24	11.14	206.66
		11/18/13	NR	12.08	205.72
		11/26/13	9:03	12.23	205.57
		12/04/13	10:15	12.23	205.57
12/11/13	9:56	12.26	205.54		
12/18/13	8:52	12.25	205.55		
12/23/13	9:42	12.21	205.59		
01/13/14	NR	11.22	206.58		
ML04-01	217.71	5/16/2013	10:00	9.19	208.52
		6/24/2013	12:03	7.75	209.96
		6/28/2013	11:14	7.99	209.72
		07/02/13	11:48	8.13	209.58
		07/09/13	9:19	8.05	209.66
		07/10/13	9:04	7.83	209.88
		07/12/13	8:56	7.91	209.80
		07/19/13	8:35	8.52	209.19
		07/23/13	9:37	8.62	209.09
		07/26/13	9:22	8.75	208.96
		07/29/13	10:17	8.83	208.88
		07/31/13	8:59	9.10	208.61
		08/06/13	9:43	9.09	208.62
		08/08/13	9:35	9.16	208.55
		08/15/13	9:20	9.34	208.37
		08/16/13	10:08	9.30	208.41
		08/20/13	9:27	9.45	208.26
		08/27/13	9:20	9.55	208.16
		09/05/13	9:01	9.86	207.85
		09/12/13	8:54	10.10	207.61
		09/13/13	11:49	10.11	207.60
		09/19/13	9:16	10.32	207.39
		09/24/13	9:25	9.96	207.75
10/02/13	8:32	10.54	207.17		
10/16/13	9:07	10.93	206.78		
11/18/13	NR	11.58	206.13		

**TABLE C-1
DEPTH TO GROUNDWATER
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey**

Well ID	Top of Casing Elevation (ft amsl)	Date (mm/dd/yyyy)	Time (hh:mm)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
ML04-01	217.71	11/26/13	8:49	11.88	205.83
		12/04/13	9:01	11.85	205.86
		12/11/13	9:35	11.85	205.86
		12/18/13	NR	11.86	205.85
		12/23/13	9:26	11.87	205.84
		01/13/14	NR	11.29	206.42
ML04-02	217.71	5/17/2013	9:25	9.18	208.53
		6/24/2013	12:04	7.76	209.95
		6/28/2013	11:14	8.33	209.38
		07/02/13	11:49	8.39	209.32
		07/09/13	9:20	8.45	209.26
		07/10/13	9:04	8.20	209.51
		07/12/13	8:56	8.13	209.58
		07/19/13	8:35	8.90	208.81
		07/23/13	9:36	9.01	208.70
		07/26/13	9:23	9.19	208.52
		07/29/13	10:18	9.26	208.45
		07/31/13	9:00	9.27	208.44
		08/06/13	9:44	9.37	208.34
		08/08/13	9:36	9.43	208.28
		08/15/13	9:21	9.58	208.13
		08/16/13	10:08	9.65	208.06
		08/20/13	9:28	9.72	207.99
		08/27/13	9:20	10.07	207.64
		09/05/13	9:03	10.29	207.42
		09/12/13	8:55	10.38	207.33
		09/13/13	11:52	10.42	207.29
		09/19/13	9:17	10.64	207.07
		09/24/13	9:26	10.30	207.41
		10/02/13	8:33	10.83	206.88
		10/16/13	9:08	10.88	206.83
		11/18/13	NR	12.07	205.64
		11/26/13	8:49	12.20	205.51
12/04/13	9:04	12.10	205.61		
12/11/13	9:35	12.08	205.63		
12/18/13	NR	12.05	205.66		
12/23/13	9:26	11.64	206.07		
01/13/14	NR	11.35	206.36		
ML04-03	217.71	5/16/2013	15:05	9.19	208.52
		6/24/2013	12:05	7.58	210.13
		6/28/2013	11:15	8.03	209.68
		07/02/13	11:49	8.15	209.56
		07/09/13	9:20	8.07	209.64
		07/10/13	9:04	7.82	209.89
		07/12/13	8:57	7.90	209.81
		07/19/13	8:35	8.52	209.19
		07/23/13	9:35	8.67	209.04
		07/26/13	9:25	8.80	208.91
		07/29/13	10:19	8.86	208.85
		07/31/13	9:01	8.93	208.78
		08/06/13	9:44	9.09	208.62
		08/08/13	9:36	9.14	208.57
		08/15/13	9:21	9.31	208.40
		08/16/13	10:09	9.31	208.40
		08/20/13	9:29	9.36	208.35
		08/27/13	9:21	9.53	208.18
		09/05/13	9:04	9.81	207.90
		09/12/13	8:55	10.00	207.71
		09/13/13	11:53	10.02	207.69
09/19/13	9:18	10.24	207.47		
09/24/13	9:27	9.90	207.81		
10/02/13	8:34	10.50	207.21		

**TABLE C-1
DEPTH TO GROUNDWATER
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey**

Well ID	Top of Casing Elevation (ft amsl)	Date (mm/dd/yyyy)	Time (hh:mm)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
ML04-03	217.71	10/16/13	9:08	10.89	206.82
		11/18/13	NR	11.55	206.16
		11/26/13	8:51	11.74	205.97
		12/04/13	9:05	11.73	205.98
		12/11/13	9:36	11.86	205.85
		12/18/13	NR	11.87	205.84
		12/23/13	9:26	11.60	206.11
ML04-04	217.71	01/13/14	NR	11.29	206.42
		5/16/2013	13:15	9.20	208.51
		6/24/2013	12:06	7.57	210.14
		6/28/2013	11:15	8.04	209.67
		07/02/13	11:49	8.16	209.55
		07/09/13	9:20	8.06	209.65
		07/10/13	9:05	7.82	209.89
		07/12/13	8:57	7.90	209.81
		07/19/13	8:35	8.51	209.20
		07/23/13	9:33	8.67	209.04
		07/26/13	9:25	8.81	208.90
		07/29/13	10:19	8.87	208.84
		07/31/13	9:02	8.94	208.77
		08/06/13	9:45	9.09	208.62
		08/08/13	9:37	9.16	208.55
		08/15/13	9:22	9.30	208.41
		08/16/13	10:09	9.32	208.39
		08/20/13	9:29	9.40	208.31
		08/27/13	9:21	9.53	208.18
		09/05/13	9:05	9.85	207.86
		09/12/13	8:56	10.01	207.70
		09/13/13	11:54	10.06	207.65
		09/19/13	9:19	10.26	207.45
		09/24/13	9:28	9.97	207.74
		10/02/13	8:34	10.52	207.19
		10/16/13	9:09	10.90	206.81
		11/18/13	NR	11.58	206.13
11/26/13	8:51	11.76	205.95		
12/04/13	9:05	11.81	205.90		
12/11/13	9:37	11.87	205.84		
12/18/13	NR	11.89	205.82		
12/23/13	9:27	11.60	206.11		
01/13/14	NR	11.31	206.40		
ML04-05	217.71	5/16/2013	12:15	9.20	208.51
		6/24/2013	12:07	7.57	210.14
		6/28/2013	11:16	8.05	209.66
		07/02/13	11:50	8.16	209.55
		07/09/13	9:21	8.06	209.65
		07/10/13	9:05	7.83	209.88
		07/12/13	8:57	7.89	209.82
		07/19/13	8:35	8.53	209.18
		07/23/13	9:32	8.65	209.06
		07/26/13	9:25	8.80	208.91
		07/29/13	10:20	8.87	208.84
		07/31/13	9:04	8.97	208.74
		08/06/13	9:47	9.13	208.58
		08/08/13	9:37	9.19	208.52
		08/15/13	9:23	9.32	208.39
		08/16/13	10:09	9.34	208.37
		08/20/13	9:30	9.44	208.27
		08/27/13	9:21	9.57	208.14
		09/05/13	9:05	9.87	207.84
		09/12/13	8:57	10.09	207.62
09/13/13	11:55	10.09	207.62		
09/19/13	9:20	10.28	207.43		

**TABLE C-1
DEPTH TO GROUNDWATER
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey**

Well ID	Top of Casing Elevation (ft amsl)	Date (mm/dd/yyyy)	Time (hh:mm)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
ML04-05	217.71	09/24/13	9:28	9.98	207.73
		10/02/13	8:35	10.57	207.14
		10/16/13	9:09	10.92	206.79
		11/18/13	NR	11.58	206.13
		11/26/13	8:52	11.78	205.93
		12/04/13	9:06	11.84	205.87
		12/11/13	9:38	11.87	205.84
		12/18/13	NR	11.90	205.81
		12/23/13	9:27	11.89	205.82
ML04-06	217.71	01/13/14	NR	11.31	206.40
		5/16/2013	11:20	9.18	208.53
		6/24/2013	12:08	7.56	210.15
		6/28/2013	11:16	8.03	209.68
		07/02/13	11:50	8.15	209.56
		07/09/13	9:21	8.06	209.65
		07/10/13	9:05	7.81	209.90
		07/12/13	8:58	7.89	209.82
		07/19/13	8:35	8.48	209.23
		07/23/13	9:31	8.64	209.07
		07/26/13	9:26	8.76	208.95
		07/29/13	10:20	8.86	208.85
		07/31/13	9:05	8.93	208.78
		08/06/13	9:48	9.11	208.60
		08/08/13	9:38	9.18	208.53
		08/15/13	9:24	9.31	208.40
		08/16/13	10:10	9.34	208.37
		08/20/13	9:30	9.43	208.28
		08/27/13	9:22	9.57	208.14
		09/05/13	9:06	9.89	207.82
		09/12/13	8:57	10.08	207.63
		09/13/13	11:56	10.08	207.63
		09/19/13	9:21	10.26	207.45
		09/24/13	9:25	9.96	207.75
		10/02/13	8:35	10.54	207.17
		10/16/13	9:10	10.92	206.79
		11/18/13	NR	11.57	206.14
11/26/13	8:53	11.79	205.92		
12/04/13	9:07	11.82	205.89		
12/11/13	9:38	11.89	205.82		
12/18/13	NR	11.88	205.83		
12/23/13	9:27	11.88	205.83		
01/13/14	NR	11.31	206.40		
ML04-07	217.71	5/17/2013	10:45	9.22	208.49
		6/24/2013	12:09	7.70	210.01
		6/28/2013	11:17	8.13	209.58
		07/02/13	11:50	8.25	209.46
		07/09/13	9:21	8.23	209.48
		07/10/13	9:05	7.95	209.76
		07/12/13	8:58	7.89	209.82
		07/19/13	8:35	8.79	208.92
		07/23/13	9:30	8.82	208.89
		07/26/13	9:26	9.14	208.57
		07/29/13	10:20	9.05	208.66
		07/31/13	9:06	9.24	208.47
		08/06/13	9:49	9.19	208.52
		08/08/13	9:38	9.32	208.39
		08/15/13	9:25	9.41	208.30
		08/16/13	10:10	9.40	208.31
		08/20/13	9:31	9.46	208.25
		08/27/13	9:22	9.68	208.03
09/05/13	9:06	9.99	207.72		

**TABLE C-1
DEPTH TO GROUNDWATER
DuPont Pompton Lakes Works
Pompton Lakes, New Jersey**

Well ID	Top of Casing Elevation (ft amsl)	Date (mm/dd/yyyy)	Time (hh:mm)	Depth to Water (ft btoc)	Groundwater Elevation (ft amsl)
ML04-07	217.71	09/12/13	8:58	10.20	207.51
		09/13/13	11:57	10.17	207.54
		09/19/13	9:22	10.41	207.30
		09/24/13	9:28	10.09	207.62
		10/02/13	8:36	10.71	207.00
		10/16/13	9:11	11.06	206.65
		11/18/13	NR	11.92	205.79
		11/26/13	8:54	12.17	205.54
		12/04/13	9:08	12.06	205.65
		12/11/13	9:39	12.19	205.52
		12/18/13	NR	12.16	205.55
		12/23/13	9:28	12.11	205.60
		01/13/14	NR	11.50	206.21

Notes:

NR - not recorded

hh:mm - hour:minute

ft amsl - feet above mean sea level

ft btoc - feet below top of casing

mm/dd/yyyy - month/day/year

**TABLE C-2
WELL CONSTRUCTION SUMMARY
DuPont Pompton Lakes Works, Pompton Lakes, New Jersey**

Well Identifier	Northing Coordinates	Easting Coordinates	Well Type	Installation Date	Development Date	Drilling Method	Borehole Diameter (inches)	Total Depth (ft bgs)	Upper Screen Interval (ft bgs)				Lower Screen Interval (ft bgs)		
									Interval 1	Interval 2	Interval 3	Interval 4	Interval 5	Interval 6	Interval 7
128-S	793482	2106025	Monitoring	13-Dec-89	NA	HSA/Split Spoon	NR	31.7	6.76-26.76				--		
128-I	793506	21060063	Monitoring	14-Dec-89	NA	HSA/Split Spoon	NR	77	--				62.04-72.04		
128-D	793464	2105996	Monitoring	11-Dec-89	NA	HSA/Split Spoon	NR	148	--				126-146		
IW01	793356	552302	Injection	03-Jun-11	07-Jun-11	HSA	12	74.20	19.90 - 44.90				49.70 - 74.20		
IW02	793369	552325	Injection	17-Jun-11	29-Jun-11	HSA	12	75.00	21.60 - 45.92				50.69 - 75.00		
IW03	793377	552338	Injection	10-Jun-11	13-Jun-11	HSA	12	75.50	21.10 - 45.42				50.19 - 75.50		
EW01	793330	552353	Extraction	17-Jun-11	21-Jun-11	HSA	12	75.00	21.60 - 45.92				50.69 - 75.00		
ML02	793363	552333	Monitoring	30-Jun-11	NA	Drive and Wash / Cathead	7	74.95	14.42 - 14.92	24.39 - 24.89	34.36 - 34.86	44.39 - 44.89	54.38 - 54.88	64.40 - 64.90	74.45 - 74.95
ML04	793344	552334	Monitoring	27-Jun-11	NA	Drive and Wash / Cathead	7	75.25	14.62 - 15.12	24.69 - 25.19	34.59 - 35.09	44.32 - 44.82	54.62 - 55.12	64.66 - 65.16	74.75 - 75.25
PVP01*	793359	552328	Probe	12-Jul-11	NA	Drive and Wash / Cathead	3	77.00	7.00	17.00	27.00	37.00	47.00	57.00	67.00
SGP01	--	--	Soil Gas Probe	06-May-13	NA	Direct Push	2	6	5.5-6				--		

Notes:

* Approximately 15 feet of drill casing remained in borehole during installation activities.

EW - extraction well

ft bgs - feet below ground surface

HSA - hollow stem auger

IRM - interim remedial measure

IW - injection well

ML - multilevel well

NA - not applicable

NR - not recorded

PVP - point velocity probe

TABLE C-3
EISB OPERATION EVENT SCHEDULE SUMMARY
DuPont Pompton Lakes Works,
Pompton Lakes, New Jersey

Date	Task	Activity
6, 7 and 13 May-13	Installation of Soil Gas Probe and Packer Installation	Installation of SGP-01 and Installation of packers in IW03 and IW01. Reinflation of packers on 13 May 2013
20-May-13	System Shakedown	Leak test, confirm components operating at intended
21-Jun-13	Water Level Measurements	Deploy leveloggers in 128-S, 128-I, IW01-Lower, IW03-Lower, IW02-Lower, EW01-Lower
24-Jun-13	Recirculation	Recirculation system started
	Flow Rate Adjustment	Recirculation at 3 GPM
	Amendments	Begin injecting potassium bromide tracer target at 100 mg/L
	Water Level Measurements	128-S, 128-I, IW01, IW02, IW03, ML02, ML04, EW01
	Water Level Measurements	EW01, ML04
25-Jun-13	O&M	Weekly inspection, filter change out, refill EW-01 and IW03 packer.
	Water Level Measurements	EW01, ML02, ML04
26-Jun-13	O&M	Daily inspection
	Water Level Measurements	EW01, IW03, ML02, ML04
27-Jun-13	O&M	Daily inspection
	Water Level Measurements	IW01, ML02, ML04
28-Jun-13	O&M	Daily inspection
	Water Level Measurements	IW02, IW03, ML04, EW01
	Water Level Measurements	IW03, ML04,
1-Jul-13	O&M	Daily inspection, filter change out, EW01 leak detection and high pressure alarm. Restart system.
	Water Level Measurements	EW01
2-Jul-13	O&M	Daily inspection, refill potassium bromide tanks
	Water Level Measurements	ML02, ML04
	Water Level Measurements	ML02, ML04
3-Jul-13	O&M	Daily inspection
	Water Level Measurements	IW01, IW03
	Water Level Measurements	EW-01, IW01, IW03, ML02, ML04
4-Jul-13	O&M	Daily inspection, refill potassium bromide tanks
	O&M	Daily inspection, refill potassium bromide tanks
8-Jul-13	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	Water Level Measurements	IW01, IW03, ML02, ML04
	O&M	Weekly inspection, refill IW03 packer
9-Jul-13	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	O&M	Weekly inspection, refill IW03 packer
10-Jul-13	Water Level Measurements	IW01, IW03, ML02, ML04
	Water Level Measurements	IW01, IW03, ML02, ML04
	O&M	Daily inspection
11-Jul-13	O&M	Daily inspection
12-Jul-13	O&M	Daily inspection
	Amendments	Begin injecting sodium lactate once a day at a target time weighted average of 165 mg/L.
	Water Level Measurements	ML02, ML04
	Water Level Measurements	EW01, ML02, ML04
16-Jul-13	O&M	Daily inspection
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
17-Jul-13	O&M	Weekly inspection
	O&M	Daily inspection
18-Jul-13	O&M	Daily inspection, refill potassium bromide tanks
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
19-Jul-13	O&M	Daily inspection, refill sodium lactate tanks
	Water Level Measurements	128-S, 128-I, IW01, IW02, IW03, ML02, ML04, EW01
22-Jul-13	O&M	Daily inspection, EW01 high pressure alarm. Change filter. Restart system.
23-Jul-13	O&M	Weekly inspection, EW01 high pressure alarm. Restart system.
	Water Level Measurements	128-S, 128-I, IW01, IW02, IW03, ML02, ML04, EW01
24-Jul-13	O&M	Daily inspection, EW01 high pressure alarm, restart system. Refill EW01 packer and potassium bromide tanks.
	O&M	Daily inspection, EW01 high pressure alarm, restart system. Refill EW01 packer and potassium bromide tanks.
25-Jul-13	O&M	Daily inspection
	Water Level Measurements	ML02, ML04
26-Jul-13	O&M	Daily inspection
	Water Level Measurements	IW01, IW02, IW03, ML02, ML04, EW01
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
29-Jul-13	O&M	Daily inspection, refill potassium bromide tanks
	Water Level Measurements	128-S, 128-I, IW01, IW02, IW03, ML02, ML04, EW01
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	O&M	Weekly inspection, high pressure alarm, restart system.

**TABLE C-3
EISB OPERATION EVENT SCHEDULE SUMMARY
DuPont Pompton Lakes Works,
Pompton Lakes, New Jersey**

Date	Task	Activity
30-Jul-13	O&M	Daily inspection, refill lactate tanks
31-Jul-13	Water Level Measurements	ML02, ML04
	Water Level Measurements	ML02, ML04
1-Aug-13	O&M	Daily inspection, refill potassium bromide tanks
	Water Level Measurements	ML02, ML04
2-Aug-13	O&M	Daily inspection
	Recirculation	Recirculation system shutdown for bioaugmentation
	Amendments	Inject 20 L of KB-1®
	Water Level Measurements	EW01, ML02
5-Aug-13	O&M	Daily inspection, bioaugmentation, shut system down
	Recirculation	Recirculation system startup after bioaugmentation
6-Aug-13	O&M	Daily inspection, high pressure alarm. Restart system, refill potassium bromide tanks
	Water Level Measurements	128-S, 128-I, IW01, IW02, IW03, ML02, ML04, EW01
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
7-Aug-13	O&M	Weekly inspection
8-Aug-13	O&M	Daily inspection
8-Aug-13	Water Level Measurements	128-S, 128-I, IW01, IW02, IW03, ML02, ML04, EW01
	O&M	Daily inspection, refill potassium bromide and sodium lactate tanks
9-Aug-13	O&M	Daily inspection, refill potassium bromide tanks
12-Aug-13	O&M	Daily inspection
13-Aug-13	O&M	Daily inspection, refill potassium bromide tanks
14-Aug-13	Water Level Measurements	ML02
	O&M	Weekly inspection, EW01 leak detection alarm, restart system
15-Aug-13	Water Level Measurements	ML04
	Water Level Measurements	EW01
	O&M	Daily inspection, refill EW01 packer
16-Aug-13	Amendments	Turn off potassium bromide injections
	Water Level Measurements	128-S, 128-I, IW01, IW03, ML02, ML04
	O&M	Daily inspection, close potassium bromide amendment valves and turn off potassium bromide pump.
19-Aug-13	O&M	Daily inspection
20-Aug-13	Water Level Measurements	128-S, 128-I, IW01, IW02, IW03, ML02, ML04
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	O&M	Weekly inspection
21-Aug-13	O&M	Daily inspection
22-Aug-13	Water Level Measurements	IW01, IW02, IW03
	O&M	Daily inspection, refill sodium lactate tanks
23-Aug-13	O&M	Daily inspection
26-Aug-13	O&M	Daily inspection
27-Aug-13	Water Level Measurements	ML02, ML04
	Water Level Measurements	ML04, ML02
	O&M	Weekly inspection
28-Aug-13	Water Level Measurements	IW01, IW03
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	O&M	Daily inspection
29-Aug-13	Water Level Measurements	128-S, 128-I
	O&M	Daily inspection
30-Aug-13	Water Level Measurements	EW01
	O&M	Daily inspection
3-Sep-13	O&M	Daily inspection, refill sodium lactate tanks
4-Sep-13	O&M	Daily inspection, refill sodium lactate tanks
5-Sep-13	Water Level Measurements	128-S, 128-I, IW01, IW03, ML02, ML04
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	O&M	Weekly inspection
6-Sep-13	O&M	Daily inspection, refill sodium lactate tanks
9-Sep-13	O&M	Daily inspection
10-Sep-13	Flow Rate Adjustment	Recirculation at 2 GPM
	O&M	Daily inspection, refill sodium lactate tanks, reduce extraction rate to 2.0 GPM
11-Sep-13	O&M	Daily inspection

**TABLE C-3
EISB OPERATION EVENT SCHEDULE SUMMARY
DuPont Pompton Lakes Works,
Pompton Lakes, New Jersey**

Date	Task	Activity
12-Sep-13	Water Level Measurements	ML02, ML04
	Water Level Measurements	ML02
	O&M	Daily inspection
13-Sep-13	Water Level Measurements	IW01, IW03, ML04
	Water Level Measurements	EW01, IW01, IW03, ML04
	O&M	Weekly inspection
16-Sep-13	Water Level Measurements	128-S, 128-I
	O&M	Daily inspection
17-Sep-13	O&M	Daily inspection
18-Sep-13	O&M	Daily inspection
19-Sep-13	Water Level Measurements	128-S, 128-I, IW01, IW03, ML02, ML04
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	O&M	Weekly inspection, refilled EW01 packer
20-Sep-13	O&M	Daily inspection
23-Sep-13	O&M	Daily inspection
24-Sep-13	Water Level Measurements	ML02, ML04
	Water Level Measurements	ML02, ML04
	O&M	Daily inspection
25-Sep-13	Water Level Measurements	IW01, IW03
	Water Level Measurements	EW01, IW01, IW03, ML04
	O&M	Daily inspection, refilled sodium lactate tanks
26-Sep-13	Water Level Measurements	ML02
	O&M	Daily inspection
27-Sep-13	O&M	Daily inspection, change out filter
30-Sep-13	O&M	Daily inspection
1-Oct-13	O&M	Daily inspection
2-Oct-13	Water Level Measurements	128-S, 128-I, IW01, IW03, ML02, ML04
	Water Level Measurements	EW01, IW01, IW03, ML02, ML04
	O&M	Weekly inspection, refill sodium lactate tanks
3-Oct-13	O&M	Daily inspection, IW02 leak detection alarm, system reset
4-Oct-13	O&M	Daily inspection, refill sodium lactate tanks
7-Oct-13	O&M	Daily inspection
8-Oct-13	Recirculation	Recirculation system shutdown rehabilitation
	O&M	Daily inspection, shut system down for rehabilitation, de-energize system, disconnect wiring from control panel to EW01
9-10 Oct-13	Rehabilitation	Mechanical rehabilitation
16-Oct-13	Water Level Measurements	128-S, 128-I, IW01, IW02, IW03, ML02, ML04, EW01
4-13 Nov-13	Rehabilitation	Chemical rehabilitation
13-Nov-13	Recirculation	Recirculation system startup after rehabilitation
	Flow Rate Adjustment	Recirculation at 3 GPM
	O&M	Turn recirculation system back on, set flow rate to 3 GPM, daily inspection
14-Nov-13	O&M	Daily inspection
15-Nov-13	O&M	Daily inspection, refill EW01 packer
18-Nov-13	Water Level Measurements	ML02, ML04
	O&M	Daily inspection
19-Nov-13	Water Level Measurements	128-I, 128-S, IW01, IW03
	O&M	Weekly inspection
20-Nov-13	Water Level Measurements	128-I, 128-S
	O&M	Daily inspection, refill sodium lactate tanks, refill EW01 packer
21-Nov-13	O&M	Daily inspection
22-Nov-13	O&M	Daily inspection
25-Nov-13	O&M	Daily inspection
26-Nov-13	Water Level Measurements	128-S, 128-I, IW01, IW03, ML02, ML04
	O&M	Weekly inspection, change out filter
27-Nov-13	Flow Rate Adjustment	Recirculation at 2 GPM
	O&M	Daily inspection, EW01 leak detection, reset system
2-Dec-13	O&M	Daily inspection
3-Dec-13	O&M	Daily inspection
4-Dec-13	Water Level Measurements	128-S, 128-I, IW01, IW03, ML02, ML04
	O&M	Weekly inspection, refill IW02 packer, refill sodium lactate tanks
5-Dec-13	O&M	Daily inspection
6-Dec-13	O&M	Daily inspection
9-Dec-13	O&M	Daily inspection
10-Dec-13	O&M	Daily inspection, system off no alarms, restart system
11-Dec-13	Water Level Measurements	128-S, 128-I, IW01, IW03, ML02, ML04

**TABLE C-3
EISB OPERATION EVENT SCHEDULE SUMMARY
DuPont Pompton Lakes Works,
Pompton Lakes, New Jersey**

Date	Task	Activity
	O&M	Weekly inspection, refill sodium lactate
12-Dec-13	O&M	Daily inspection
13-Dec-13	O&M	Daily inspection
16-Dec-13	O&M	Daily inspection
17-Dec-13	O&M	Daily inspection, filter change out
18-Dec-13	Water Level Measurements	ML02, ML04
	O&M	Daily inspection
19-Dec-13	O&M	Daily inspection
20-Dec-13	Recirculation	Recirculation system shutdown
	O&M	Turn off recirculation system
23-Dec-13	Water Level Measurements	128-S, 128-I, IW01, IW03, ML02, ML04
	O&M	Daily inspection, loosen filter housing to prevent vacuum in system
13-Jan-14	Water Level Measurements	ML02, ML04
15-Jan-14	Water Level Measurements	128-S, 128-I, IW01, IW03

Notes:

Inspections include flow rate adjustments, valve position adjustments, flow rate checks, pressure checks and lactate injections.

TABLE C-4
BROMIDE TRACER RESULTS -EISB PILOT STUDY
 DuPont Pompton Lakes Works
 Pompton Lakes, New Jersey

Date	Calibration Curve Number ¹	Slope	Intercept	ML04-01 (14.62 ft bgs)		ML04-02 (64.66 ft bgs)		ML04-03 (54.62 ft bgs)	
				Bromide Reading (mV)	Bromide Concentration (mg/L)	Bromide Reading (mV)	Bromide Concentration (mg/L)	Bromide Reading (mV)	Bromide Concentration (mg/L)
6/24/2013	1	-22.5	138.47					142.4	0.84
6/25/2013	1	-22.5	138.47						
6/26/2013	2	-23.6	145.37	195.1	0.12	158.7	0.57		
6/27/2013	1	-22.5	138.47			140.0	0.93	140.7	0.91
6/28/2013	1	-22.5	138.47			129.8	1.47	144.7	0.76
7/1/2013	3	-23.1	143.82						
7/2/2013	3	-23.1	143.82	161	0.48	143.2	1.03	120.6	2.73
7/3/2013	3	-23.1	143.82			156.6	0.58	152.9	0.67
7/8/2013	4	-23.9	146.99			144.3	1.12	154.1	0.74
7/9/2013	4	-23.9	146.99	164.3	0.48	149.6	0.90	153.8	0.75
7/10/2013	4	-23.9	146.99	175.2	0.31	152.2	0.80	159.9	0.58
7/12/2013	2	-23.6	145.37	172.8	0.31	158.0	0.59	165.7	0.42
7/16/2013	5	-21.8	137.32	148.2	0.61	137.1	1.01	143.8	0.74
7/18/2013	1	-22.5	138.47			139.0	0.98	145.6	0.73
7/23/2013	6	-24.3	152.21	128.5	2.65	122.5	3.39	131.8	2.31
7/26/2013	7	-21.9	133.59					131.2	1.12
7/29/2013	8	-23.8	147.06	102	6.66	130.4	2.02	107.2	5.35
7/31/2013	9	-24.2	148.27	114.8	3.99				
8/1/2013	9	-24.2	148.27			129.4	2.18		
8/2/2013	9	-24.2	148.27						
8/6/2013	10	-23.3	138.17	113.2	2.92	149.7	0.61	162.9	0.35
8/8/2013	11	-23.6	142.01			146.7	0.82	110.0	3.89
8/14/2013	11	-23.6	142.01						
8/15/2013	11	-23.6	142.01	99.2	6.15	138.9	1.14	81.0	13.32
8/15/2013	12	-23.4	137.89						
8/20/2013	12	-23.4	137.89	87.6	8.55	130.2	1.39	82.1	10.82
8/27/2013	13	-24.1	142.90	91.5	8.45	83.0	12.03	50.2	46.98
8/28/2013	13	-24.1	142.90						
9/5/2013	14	-27.4	166.48	102.1	10.49	89.9	16.38	55.1	58.35
9/12/2013	15	-23.0	128.22						
9/13/2013	15	-23.0	128.22	115.5	1.74	80.2	8.07	49.6	30.56
9/19/2013	16	-21.2	120.29	119.8	1.02	72.0	9.78	50.9	26.48
9/24/2013	17	-23.1	132.34	148.6	0.49			75.3	11.83
9/25/2013	17	-23.1	132.34			64.9	18.56		
9/26/2013	17	-23.1	132.34						
10/2/2013	18	-23.0	130.67	150		70.8	13.49	63.8	18.29

TABLE C-4
BROMIDE TRACER RESULTS -EISB PILOT STUDY
 DuPont Pompton Lakes Works
 Pompton Lakes, New Jersey

Date	Calibration Curve Number ¹	Slope	Intercept	ML04-04 (44.32 ft bgs)		ML04-05 (34.59 ft bgs)		ML04-06 (24.69 ft bgs)	
				Bromide Reading (mV)	Bromide Concentration (mg/L)	Bromide Reading (mV)	Bromide Concentration (mg/L)	Bromide Reading (mV)	Bromide Concentration (mg/L)
6/24/2013	1	-22.5	138.47					191.8	0.09
6/25/2013	1	-22.5	138.47						
6/26/2013	2	-23.6	145.37	170.5	0.34	187.1	0.17		
6/27/2013	1	-22.5	138.47	147.6	0.67				
6/28/2013	1	-22.5	138.47						
7/1/2013	3	-23.1	143.82						
7/2/2013	3	-23.1	143.82	155.6	0.60	174.3	0.27	160.4	0.49
7/3/2013	3	-23.1	143.82	161.2	0.47				
7/8/2013	4	-23.9	146.99	156.2	0.68				
7/9/2013	4	-23.9	146.99	160.1	0.58	174.2	0.32	170.2	0.38
7/10/2013	4	-23.9	146.99	163.9	0.49	176.7	0.29	178.2	0.27
7/12/2013	2	-23.6	145.37	172.1	0.32	189.6	0.15	185.7	0.18
7/16/2013	5	-21.8	137.32	133.8	1.17	155.7	0.43	141.1	0.84
7/18/2013	1	-22.5	138.47	136.1	1.11				
7/23/2013	6	-24.3	152.21	120.0	3.76	139.8	1.67	131.3	2.36
7/26/2013	7	-21.9	133.59	88.2	7.95				
7/29/2013	8	-23.8	147.06	83.7	14.38	153.4	0.77	159.0	0.61
7/31/2013	9	-24.2	148.27			98.6	7.79	171.5	0.38
8/1/2013	9	-24.2	148.27	50.8	56.22				
8/2/2013	9	-24.2	148.27						
8/6/2013	10	-23.3	138.17	130.5	1.39	171.0	0.24	171.6	0.24
8/8/2013	11	-23.6	142.01	76.4	16.20				
8/14/2013	11	-23.6	142.01						
8/15/2013	11	-23.6	142.01	70.6	20.72	152.8	0.63	178.1	0.22
8/15/2013	12	-23.4	137.89						
8/20/2013	12	-23.4	137.89	67.5	20.17	134.1	1.18	165.9	0.30
8/27/2013	13	-24.1	142.90	44.7	59.03	89.8	9.07	166.1	0.38
8/28/2013	13	-24.1	142.90						
9/5/2013	14	-27.4	166.48	43.9	87.83	122.1	5.05	154.7	1.54
9/12/2013	15	-23.0	128.22						
9/13/2013	15	-23.0	128.22	46.1	35.59	130.7	0.90	151.5	0.36
9/19/2013	16	-21.2	120.29	58.9	18.15	130.9	0.61	146.2	0.29
9/24/2013	17	-23.1	132.34	83.9	8.15	83.4	8.33	160.4	0.30
9/25/2013	17	-23.1	132.34						
9/26/2013	17	-23.1	132.34						
10/2/2013	18	-23.0	130.67	66.6	16.19	96.9	4.34	155.2	0.34

TABLE C-4
BROMIDE TRACER RESULTS -EISB PILOT STUDY
 DuPont Pompton Lakes Works
 Pompton Lakes, New Jersey

Date	Calibration Curve Number ¹	Slope	Intercept	ML04-07 (74.75 ft bgs)		ML02-01 (14.42 ft bgs)		ML02-02 (64.40 ft bgs)	
				Bromide Reading (mV)	Bromide Concentration (mg/L)	Bromide Reading (mV)	Bromide Concentration (mg/L)	Bromide Reading (mV)	Bromide Concentration (mg/L)
6/24/2013	1	-22.5	138.47						
6/25/2013	1	-22.5	138.47						
6/26/2013	2	-23.6	145.37	147.3	0.92	170.1	0.35	171.2	0.33
6/27/2013	1	-22.5	138.47	130.4	1.43			157.7	0.43
6/28/2013	1	-22.5	138.47	129.7	1.48				
7/1/2013	3	-23.1	143.82						
7/2/2013	3	-23.1	143.82	146.5	0.89	106.5	5.03	90.3	10.14
7/3/2013	3	-23.1	143.82	139.6	1.20			86.1	12.17
7/8/2013	4	-23.9	146.99	141.6	1.25			90.7	10.55
7/9/2013	4	-23.9	146.99	137.6	1.48	87.1	12.27	83.0	14.56
7/10/2013	4	-23.9	146.99	145.1	1.08	73.4	21.77	74.2	21.05
7/12/2013	2	-23.6	145.37	148.4	0.88	82.3	14.48	81.7	14.85
7/16/2013	5	-21.8	137.32	126.9	1.61	72.2	19.72	74.4	17.83
7/18/2013	1	-22.5	138.47	120.1	2.26			78.4	14.42
7/23/2013	6	-24.3	152.21	111.2	5.40	60.3	43.78	58.3	47.53
7/26/2013	7	-21.9	133.59	122.0	1.70			64.0	24.02
7/29/2013	8	-23.8	147.06	125.3	2.50	71.9	23.62	62.4	35.22
7/31/2013	9	-24.2	148.27			120.4	3.16		
8/1/2013	9	-24.2	148.27					56.0	45.35
8/2/2013	9	-24.2	148.27	126.4	2.47				
8/6/2013	10	-23.3	138.17	126.1	1.68	52.7	39.12	42.3	61.12
8/8/2013	11	-23.6	142.01	141.4	1.03			42.6	68.00
8/14/2013	11	-23.6	142.01					60.5	31.81
8/15/2013	11	-23.6	142.01	142.1	1.00	45.7	59.61		
8/15/2013	12	-23.4	137.89						
8/20/2013	12	-23.4	137.89	136.2	1.07	53.6	36.51	46.4	49.64
8/27/2013	13	-24.1	142.90	130.1	1.70	157.5	0.55		
8/28/2013	13	-24.1	142.90					81.3	12.91
9/5/2013	14	-27.4	166.48	121.4	5.19	69.8	34.12	67.9	36.57
9/12/2013	15	-23.0	128.22					82.0	7.47
9/13/2013	15	-23.0	128.22	126.9	1.06				
9/19/2013	16	-21.2	120.29	115.9	1.23	83.3	5.73	80.7	6.48
9/24/2013	17	-23.1	132.34					89.4	6.42
9/25/2013	17	-23.1	132.34	115.1	2.11				
9/26/2013	17	-23.1	132.34						
10/2/2013	18	-23.0	130.67	128.4	1.10	84.4	7.47	84.7	7.37

TABLE C-4
BROMIDE TRACER RESULTS -EISB PILOT STUDY
 DuPont Pompton Lakes Works
 Pompton Lakes, New Jersey

Date	Calibration Curve Number ¹	Slope	Intercept	ML02-03 (54.38 ft bgs)		ML02-04 (44.39 ft bgs)		ML02-05 (34.36 ft bgs)	
				Bromide Reading (mV)	Bromide Concentration (mg/L)	Bromide Reading (mV)	Bromide Concentration (mg/L)	Bromide Reading (mV)	Bromide Concentration (mg/L)
6/24/2013	1	-22.5	138.47						
6/25/2013	1	-22.5	138.47	144.5	0.76	142.2	0.85		
6/26/2013	2	-23.6	145.37	169.7	0.36	174.7	0.29	193.4	0.13
6/27/2013	1	-22.5	138.47	154.0	0.50	149.4	0.62		
6/28/2013	1	-22.5	138.47						
7/1/2013	3	-23.1	143.82						
7/2/2013	3	-23.1	143.82	150.2	0.76	105.2	5.32	168.9	0.34
7/3/2013	3	-23.1	143.82	94.8	8.35	71.9	22.50		
7/8/2013	4	-23.9	146.99	85.8	12.95	82.9	14.62		
7/9/2013	4	-23.9	146.99	72.7	22.41	69.9	25.20	171.3	0.36
7/10/2013	4	-23.9	146.99	73.3	21.86	85.2	13.28	177.1	0.28
7/12/2013	2	-23.6	145.37	76.5	18.51	89.7	10.58	189.0	0.16
7/16/2013	5	-21.8	137.32	71.3	20.55	69.7	22.11	140.8	0.85
7/18/2013	1	-22.5	138.47	77.5	15.01	86.4	10.11		
7/23/2013	6	-24.3	152.21	58.0	48.12	61.5	41.67	137.8	1.81
7/26/2013	7	-21.9	133.59	53.6	38.64	54.6	36.91		
7/29/2013	8	-23.8	147.06	61.0	37.36	55.9	46.30	129.1	2.13
7/31/2013	9	-24.2	148.27					161.0	0.59
8/1/2013	9	-24.2	148.27	45.1	71.16	41.2	83.61		
8/2/2013	9	-24.2	148.27						
8/6/2013	10	-23.3	138.17	41.4	63.53	41.0	64.62	156.5	0.46
8/8/2013	11	-23.6	142.01	41.7	70.64	47.7	54.76		
8/14/2013	11	-23.6	142.01	53.9	42.09	53.8	42.27	176.3	0.23
8/15/2013	11	-23.6	142.01						
8/15/2013	12	-23.4	137.89						
8/20/2013	12	-23.4	137.89	47.4	47.57	63.6	23.82	137.6	1.01
8/27/2013	13	-24.1	142.90			82.9	12.08	164.7	0.40
8/28/2013	13	-24.1	142.90	85.0	11.07				
9/5/2013	14	-27.4	166.48	56.3	55.85	65.4	40.06	107.1	8.74
9/12/2013	15	-23.0	128.22	78.6	8.66	80.1	8.11	91.0	5.05
9/13/2013	15	-23.0	128.22						
9/19/2013	16	-21.2	120.29	68.3	11.64	74.7	8.61	90.8	4.02
9/24/2013	17	-23.1	132.34	85.3	7.67	83.8	8.18	83.4	8.33
9/25/2013	17	-23.1	132.34						
9/26/2013	17	-23.1	132.34						
10/2/2013	18	-23.0	130.67	71.7	12.97	76.8	10.39	85.8	7.03

TABLE C-4
BROMIDE TRACER RESULTS -EISB PILOT STUDY
 DuPont Pompton Lakes Works
 Pompton Lakes, New Jersey

Date	Calibration Curve Number ¹	Slope	Intercept	ML02-06 (24.39 ft bgs)		ML02-07 (74.45 ft bgs)		IW03 Upper	
				Bromide Reading (mV)	Bromide Concentration (mg/L)	Bromide Reading (mV)	Bromide Concentration (mg/L)	Bromide Reading (mV)	Bromide Concentration (mg/L)
6/24/2013	1	-22.5	138.47						
6/25/2013	1	-22.5	138.47						
6/26/2013	2	-23.6	145.37	182.4	0.21	154.8	0.67	143.4	1.09
6/27/2013	1	-22.5	138.47			124.1	1.89		
6/28/2013	1	-22.5	138.47					144.3	0.77
7/1/2013	3	-23.1	143.82						
7/2/2013	3	-23.1	143.82	163.3	0.43	126.5	2.12		
7/3/2013	3	-23.1	143.82			140.5	1.15	156.6	0.58
7/8/2013	4	-23.9	146.99			140.7	1.30		
7/9/2013	4	-23.9	146.99	163.7	0.50	143.6	1.15		
7/10/2013	4	-23.9	146.99	174.0	0.32	132.1	1.87		
7/12/2013	2	-23.6	145.37	180.3	0.23	142.0	1.15		
7/16/2013	5	-21.8	137.32	132.8	1.23	143.2	0.76		
7/18/2013	1	-22.5	138.47			118.4	2.44		
7/23/2013	6	-24.3	152.21	134.1	2.11	105.2	6.91	130.0	2.49
7/26/2013	7	-21.9	133.59			112.2	2.66	133.9	0.99
7/29/2013	8	-23.8	147.06	146.0	1.05	121.0	2.99	135.0	1.66
7/31/2013	9	-24.2	148.27	174.7	0.34				
8/1/2013	9	-24.2	148.27						
8/2/2013	9	-24.2	148.27			112.3	4.42		
8/6/2013	10	-23.3	138.17	158.4	0.42	123.4	1.88	151.5	0.56
8/8/2013	11	-23.6	142.01			129.4	1.71	159.3	0.48
8/14/2013	11	-23.6	142.01			137.1	1.23		
8/15/2013	11	-23.6	142.01	179.0	0.21			173.0	0.27
8/15/2013	12	-23.4	137.89						
8/20/2013	12	-23.4	137.89	139.5	0.93	131.6	1.31	157.0	0.44
8/27/2013	13	-24.1	142.90	161.5	0.46				
8/28/2013	13	-24.1	142.90			120.9	2.49	145.6	0.89
9/5/2013	14	-27.4	166.48	127.4	4.17	115.4	6.46	69.1	
9/12/2013	15	-23.0	128.22			114.1	1.85		
9/13/2013	15	-23.0	128.22	136.0	0.71			142.8	0.53
9/19/2013	16	-21.2	120.29	145.3	0.31	109.8	1.64	131.7	0.58
9/24/2013	17	-23.1	132.34	161.2	0.29	117.0	1.94		
9/25/2013	17	-23.1	132.34					141.6	0.67
9/26/2013	17	-23.1	132.34						
10/2/2013	18	-23.0	130.67	144.6	0.55	118.3	1.71	154.0	0.36

TABLE C-4
BROMIDE TRACER RESULTS -EISB PILOT STUDY
 DuPont Pompton Lakes Works
 Pompton Lakes, New Jersey

Date	Calibration Curve Number ¹	Slope	Intercept	IW03 Lower		IW01 Upper		IW01 Lower	
				Bromide Reading (mV)	Bromide Concentration (mg/L)	Bromide Reading (mV)	Bromide Concentration (mg/L)	Bromide Reading (mV)	Bromide Concentration (mg/L)
6/24/2013	1	-22.5	138.47						
6/25/2013	1	-22.5	138.47						
6/26/2013	2	-23.6	145.37	135.3	1.53				
6/27/2013	1	-22.5	138.47			155.4	0.47	148.9	0.63
6/28/2013	1	-22.5	138.47	142.8	0.83				
7/1/2013	3	-23.1	143.82						
7/2/2013	3	-23.1	143.82						
7/3/2013	3	-23.1	143.82	157.1	0.56	169.3	0.33	151.8	0.71
7/8/2013	4	-23.9	146.99	146.7	1.01	143.7	1.15	150.5	0.86
7/9/2013	4	-23.9	146.99	151.6	0.82	164.3	0.48	146.3	1.03
7/10/2013	4	-23.9	146.99	146.6	1.02	164.1	0.49	150.3	0.87
7/12/2013	2	-23.6	145.37						
7/16/2013	5	-21.8	137.32	132.9	1.22	143.1	0.77		
7/18/2013	1	-22.5	138.47	88.5	9.21	154.6	0.49	150.8	0.58
7/23/2013	6	-24.3	152.21	115.9	4.45	138.2	1.78	121.4	3.55
7/26/2013	7	-21.9	133.59	74.3	15.01	145.7	0.58		
7/29/2013	8	-23.8	147.06	81.3	15.90	165.8	0.45	146.0	1.05
7/31/2013	9	-24.2	148.27						
8/1/2013	9	-24.2	148.27						
8/2/2013	9	-24.2	148.27						
8/6/2013	10	-23.3	138.17	138.7	0.98	166.4	0.30	141.1	0.88
8/8/2013	11	-23.6	142.01	77.9	15.20	173.6	0.26	154.4	0.59
8/14/2013	11	-23.6	142.01						
8/15/2013	11	-23.6	142.01	104.8	4.85	179.4	0.20	150.0	0.71
8/15/2013	12	-23.4	137.89						
8/20/2013	12	-23.4	137.89	44.2	54.53	159.5	0.40	139.0	0.95
8/27/2013	13	-24.1	142.90						
8/28/2013	13	-24.1	142.90	75.2	16.63	151.2	0.71	105.8	4.67
9/5/2013	14	-27.4	166.48	66.9	37.93	159.5	1.29	57.8	52.87
9/12/2013	15	-23.0	128.22						
9/13/2013	15	-23.0	128.22	77.0	9.28	150.4	0.38	51.1	28.63
9/19/2013	16	-21.2	120.29	79.4	6.89	145.2	0.31	97.8	2.89
9/24/2013	17	-23.1	132.34						
9/25/2013	17	-23.1	132.34	81.7	8.96	149.9	0.47	94.8	5.08
9/26/2013	17	-23.1	132.34						
10/2/2013	18	-23.0	130.67	74.7	11.39	161.8	0.26	41.2	48.83

TABLE C-4
BROMIDE TRACER RESULTS -EISB PILOT STUDY
 DuPont Pompton Lakes Works
 Pompton Lakes, New Jersey

Date	Calibration Curve Number ¹	Slope	Intercept	EW01 Upper		EW01 Lower	
				Bromide Reading (mV)	Bromide Concentration (mg/L)	Bromide Reading (mV)	Bromide Concentration (mg/L)
6/24/2013	1	-22.5	138.47			163.0	0.34
6/25/2013	1	-22.5	138.47			143.0	0.82
6/26/2013	2	-23.6	145.37			171.2	0.33
6/27/2013	1	-22.5	138.47				
6/28/2013	1	-22.5	138.47				
7/1/2013	3	-23.1	143.82			147.6	0.85
7/2/2013	3	-23.1	143.82			160.8	0.48
7/3/2013	3	-23.1	143.82			98.5	7.11
7/8/2013	4	-23.9	146.99			153.8	0.75
7/9/2013	4	-23.9	146.99			152.2	0.80
7/10/2013	4	-23.9	146.99			159.5	0.59
7/12/2013	2	-23.6	145.37			170.3	0.35
7/16/2013	5	-21.8	137.32	152.5	0.50	146.4	0.66
7/18/2013	1	-22.5	138.47			134.3	1.20
7/23/2013	6	-24.3	152.21			90.3	12.75
7/26/2013	7	-21.9	133.59			112.6	2.61
7/29/2013	8	-23.8	147.06			93.5	9.52
7/31/2013	9	-24.2	148.27				
8/1/2013	9	-24.2	148.27				
8/2/2013	9	-24.2	148.27	151.0	0.89	101.2	7.00
8/6/2013	10	-23.3	138.17			101.2	4.88
8/8/2013	11	-23.6	142.01			98.0	6.48
8/14/2013	11	-23.6	142.01				
8/15/2013	11	-23.6	142.01			94.2	7.61
8/15/2013	12	-23.4	137.89	168.0	0.28		
8/20/2013	12	-23.4	137.89			86.2	9.08
8/27/2013	13	-24.1	142.90				
8/28/2013	13	-24.1	142.90	157.9	0.54	80.3	13.46
9/5/2013	14	-27.4	166.48			81.7	22.09
9/12/2013	15	-23.0	128.22				
9/13/2013	15	-23.0	128.22			83.3	7.06
9/19/2013	16	-21.2	120.29			84.9	5.32
9/24/2013	17	-23.1	132.34				
9/25/2013	17	-23.1	132.34	147.5	0.52	86.7	7.22
9/26/2013	17	-23.1	132.34				
10/2/2013	18	-23.0	130.67			81.1	8.62

Notes:¹ - see attachment C-1 for individual calibration curves

mV = millivolts

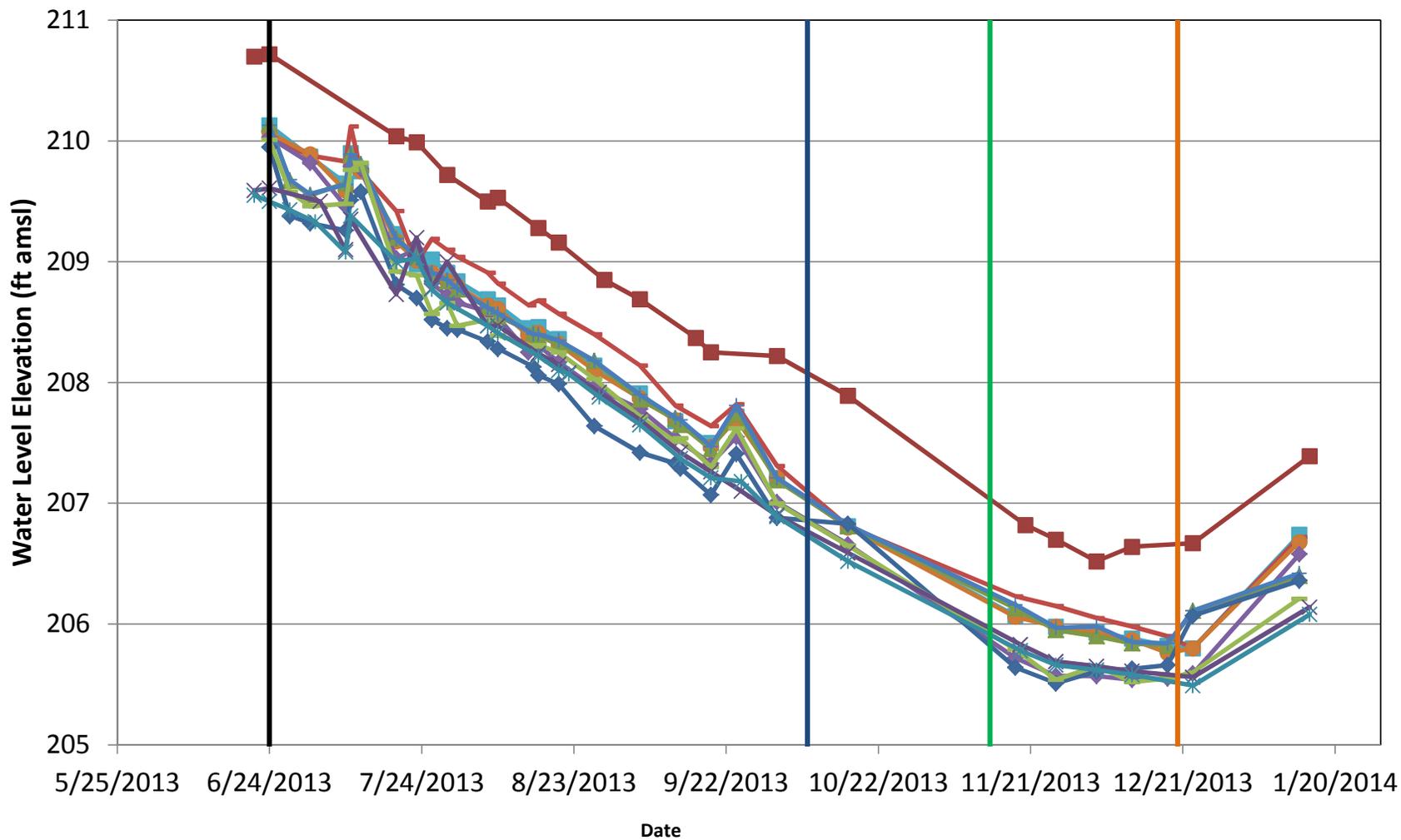
mg/L - milligrams per liter

Slope - see attachment C-1 for individual calibration curves

Intercept - see attachment C-1 for individual calibration curves

FIGURES

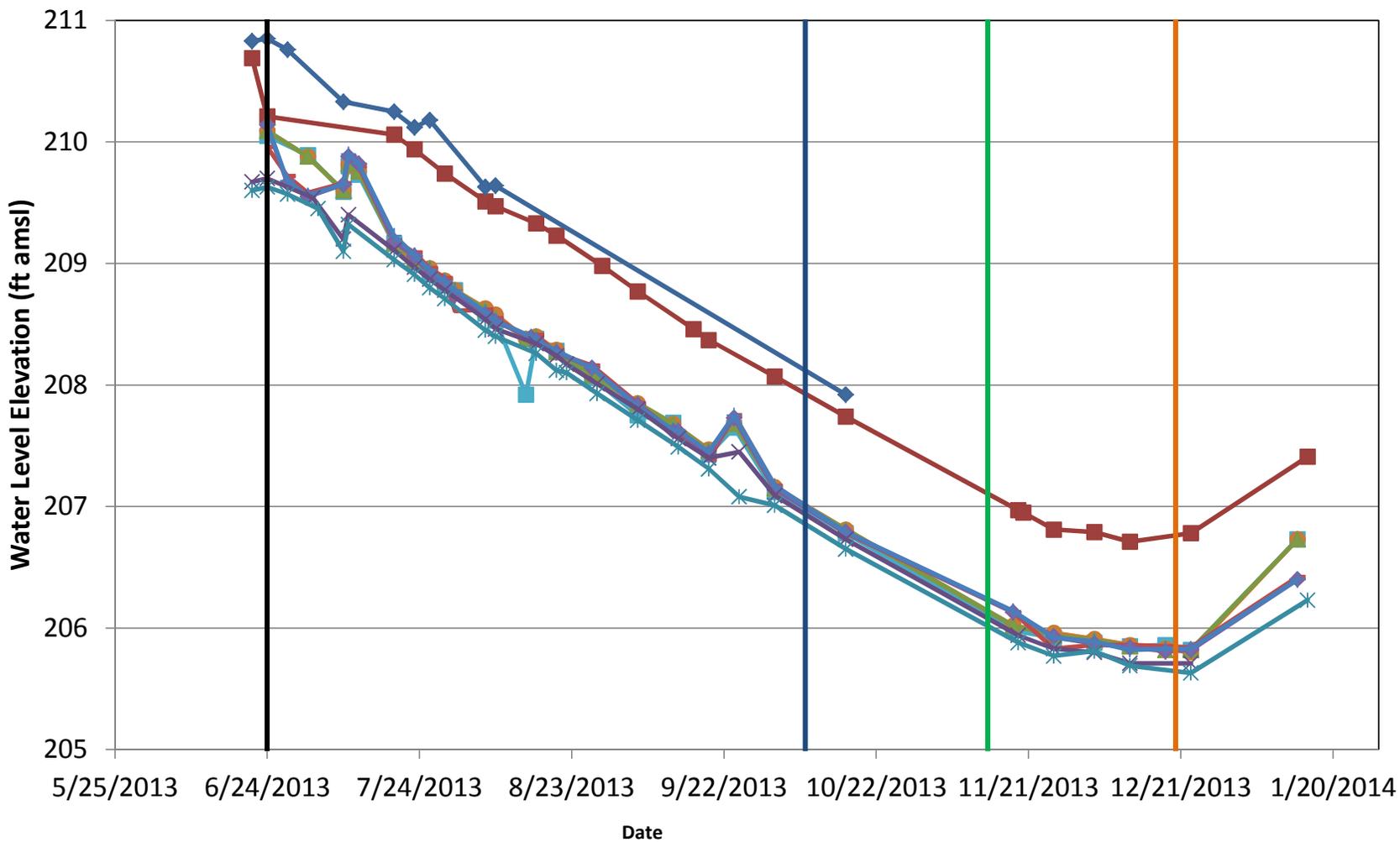
P:\PRA\Projects\180352_DuPont\180352_DuPont\180352 DuPont\Phase 2 - ESR\Operation\Manual\Water Levels\Tables\1 Depth to Groundwater Measurements_2014.02.25.xls\figure C-1



- 128-1
- ML02-03
- ML02-07
- ML04-03
- ML04-07
- ML04-2
- IW01-Lower
- IW03-Lower
- System Shutdown for Rehabilitation
- System Shutdown
- ML02-04
- ML02-02
- ML04-04
- ML04-2
- IW01-Lower
- Start of Pilot Test
- System Restart

Water Level Elevations Intermediate Zone DuPont Pompton Lakes Works, Pompton Lakes, New Jersey	
Guelph	30-Mar-14
Figure C-1	

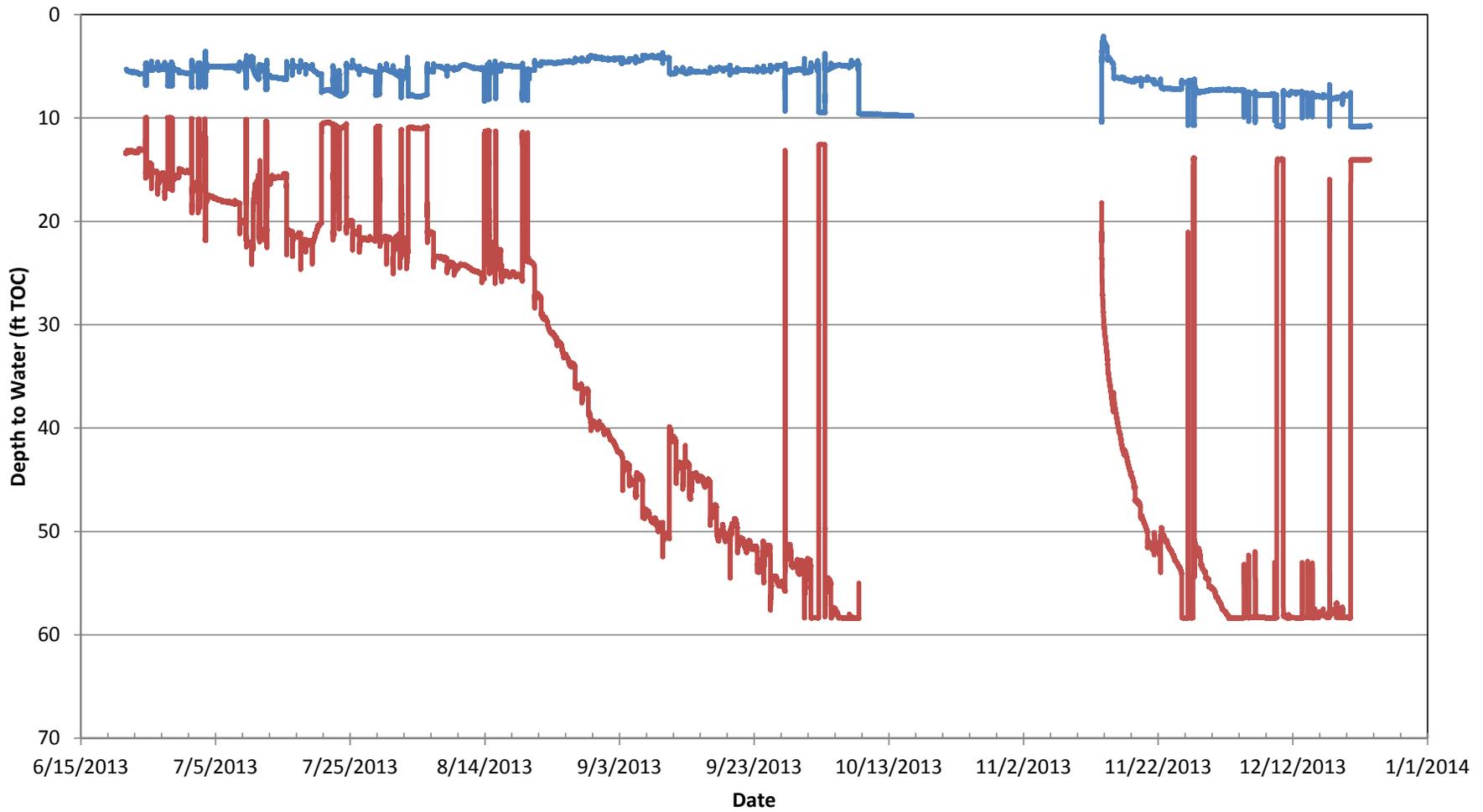
\\Gueph01\Data\PR\Projects\180352_DuPont_Pompton_Lakes\128_MV\Phase 2 - ESB\Report\Appendices\Appendix C - Operational Summary\Table C-1 Depth to Groundwater.xlsx\Figure C



- 128-S
- ML02-05
- ML04-01
- + ML04-06
- * IW03-Upper
- Start of Pilot Test
- System Restart
- ML02-01
- ▲ ML02-06
- ◆ ML04-05
- × IW01-Upper
- ◆ EW01-Upper
- System Shutdown for Rehabilitation
- System Shutdown

Water Level Elevations Shallow Zone DuPont Pompton Lakes Works, Pompton Lakes, New Jersey	
Guelph	April 2014
Figure C-2	

P:\PJA\Projects\IR0352_DuPont_Pompton_Lakes\CADD_GIS\DataLogger\Pompton_Lakes_DataLogger\IW01_IW02_IW03 and EW01_2014.01.02.xab\EW01_IW02_Plot



— IW-02 (Lower)
— EW-01 (Lower)

IW02 (Lower) and EW01(Lower)
DuPont Pompton Lakes Works
Pompton Lakes, NJ

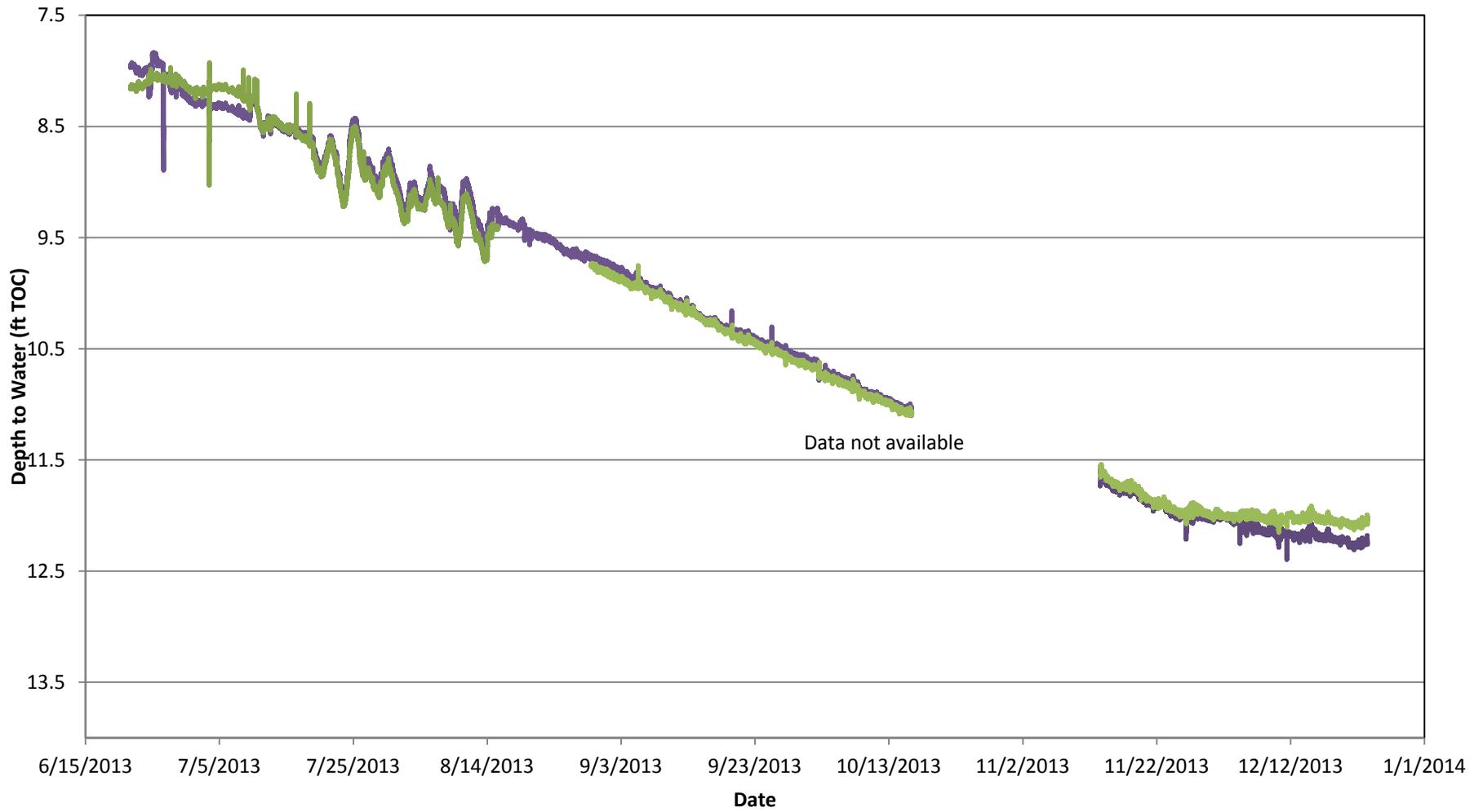
Geosyntec
consultants

Guelph

April 2014

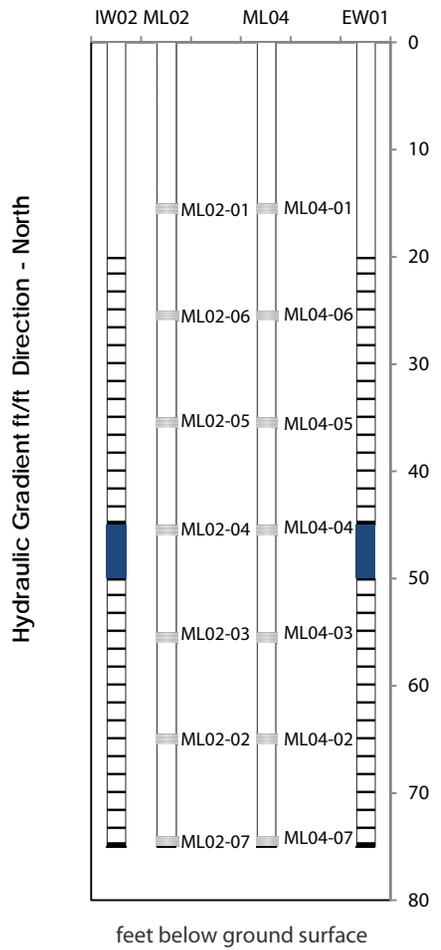
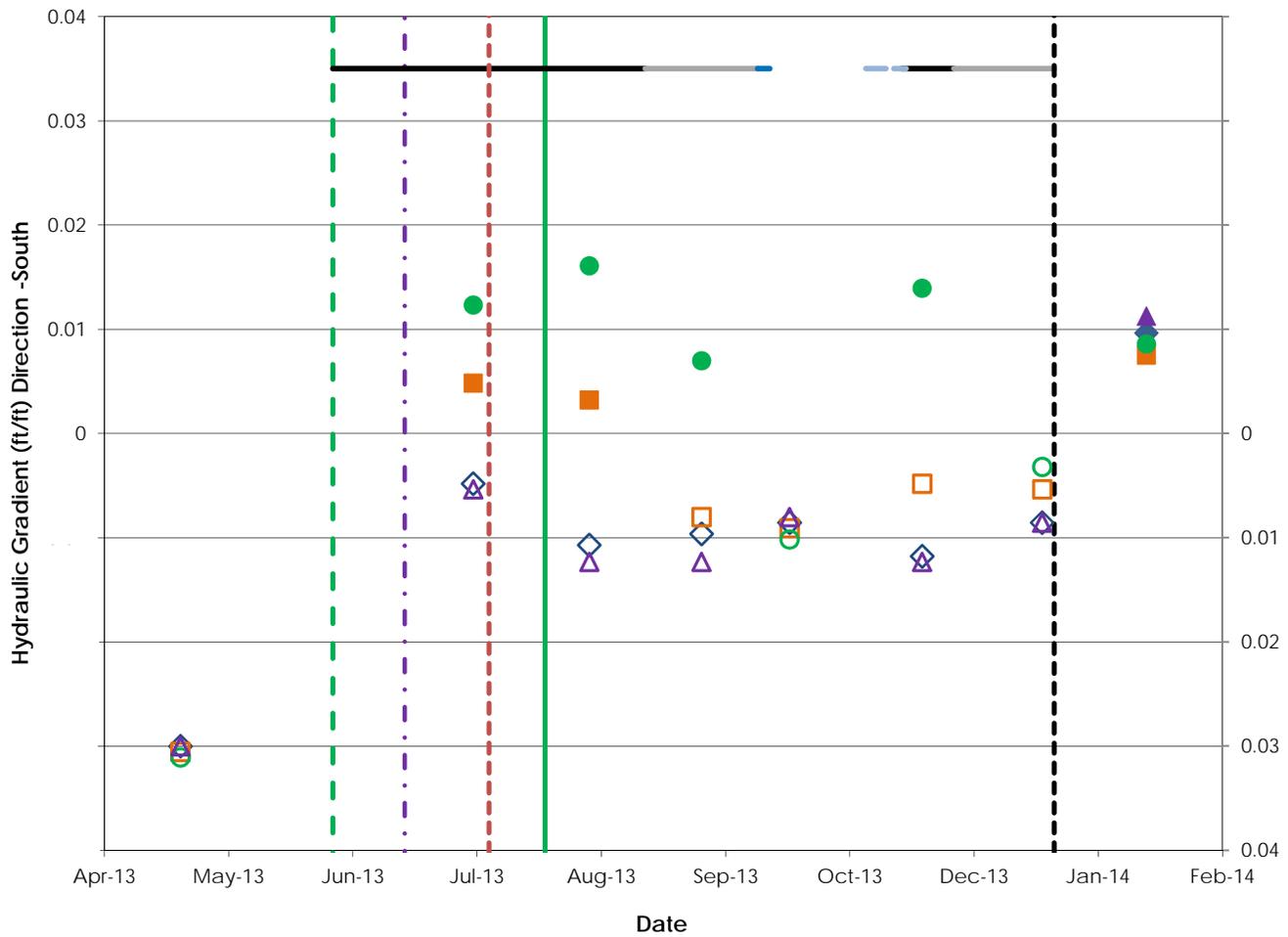
Figure

C-3



— IW03 (Lower)
— IW01 (Lower)

IW01 (Lower) and IW03 (Lower) DuPont Pompton Lakes Works Pompton Lakes, NJ	
Guelph	April 2014
Figure C-4	



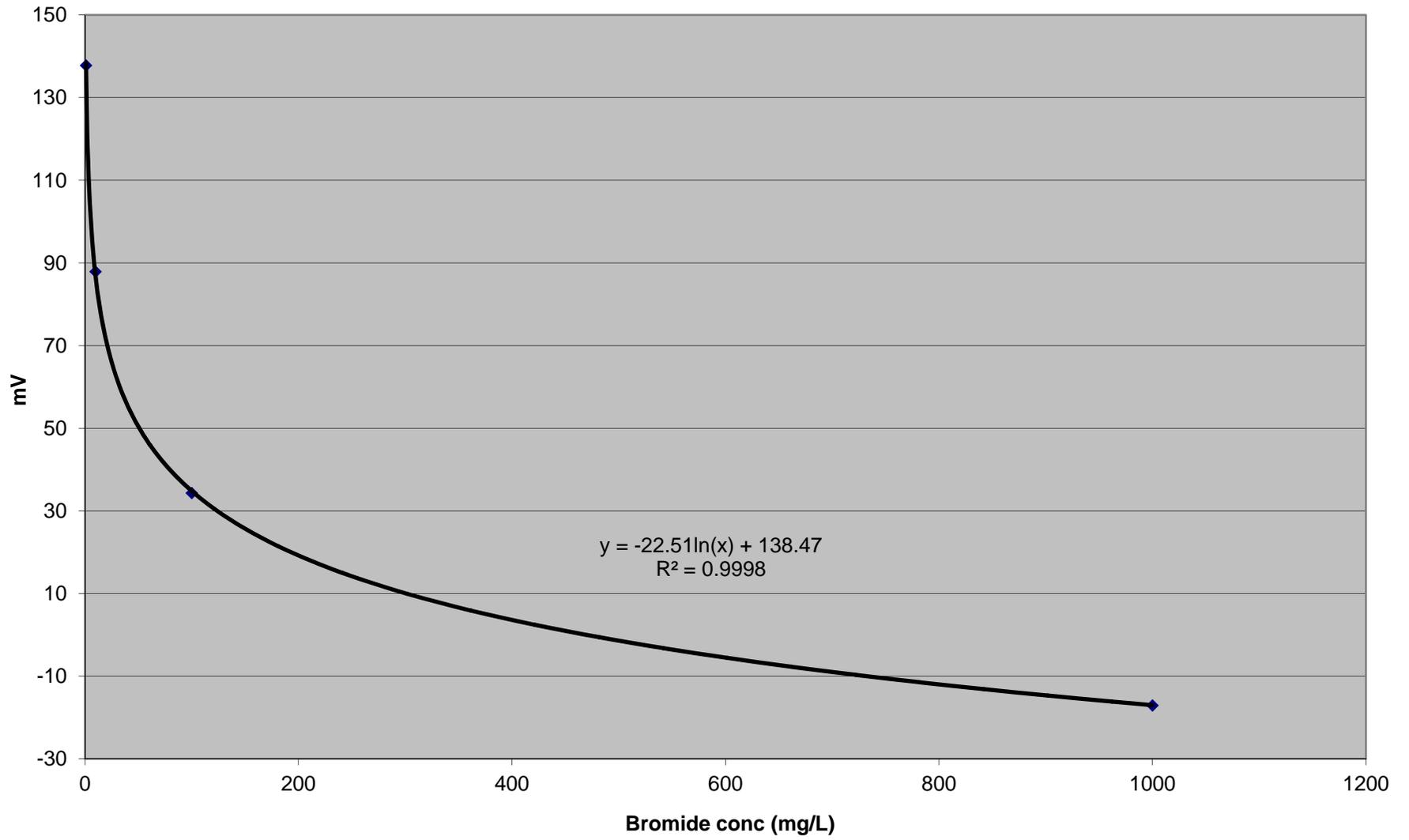
- ◆ ML02-04 to ML04-04 (44 ft bgs) ■ ML02-03 to ML04-03 (54 ft bgs) ● ML02-02 to ML04-02 (64 ft bgs)
- ▲ ML02-07 to ML04-07 (74 ft bgs) - - - Bromide addition — Bromide addition ended
- · - Sodium lactate addition — Pumping rate 3 GPM — Pumping rate 2 GPM
- - - Bioaugmentation - - - System Shutdown — Well Rehab - Mechanical
- Well Rehab - Chemical

* open symbols indicate a gradient in the North direction

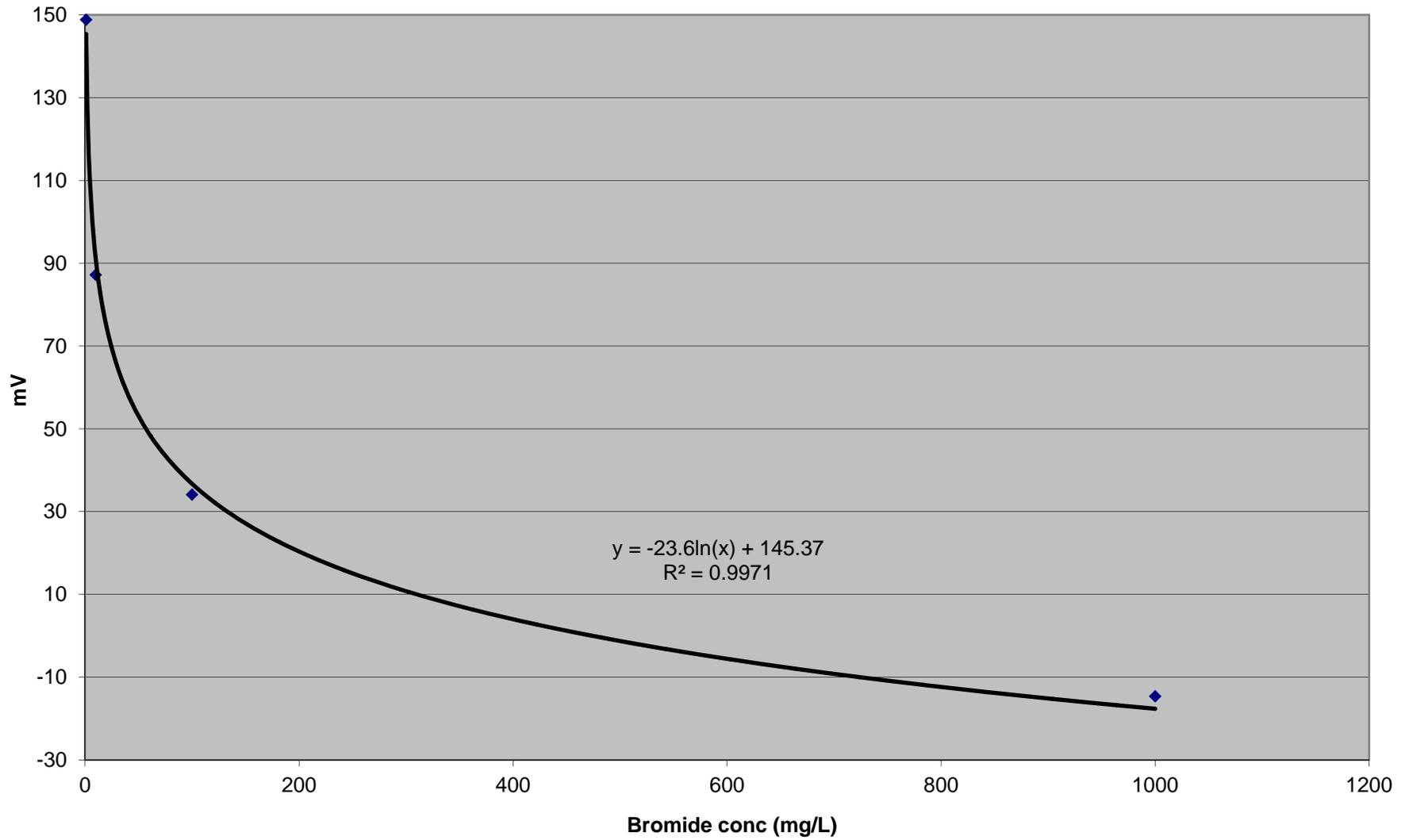
<p>Hydraulic Gradient between ML02 and ML04 DuPont Pompton Lakes Works Pompton Lakes, NJ</p>	
Guelph	April 2014
<p>Figure C-6</p>	

ATTACHMENT C-1
CALIBRATION CURVES FOR POTASSIUM BROMIDE TRACER

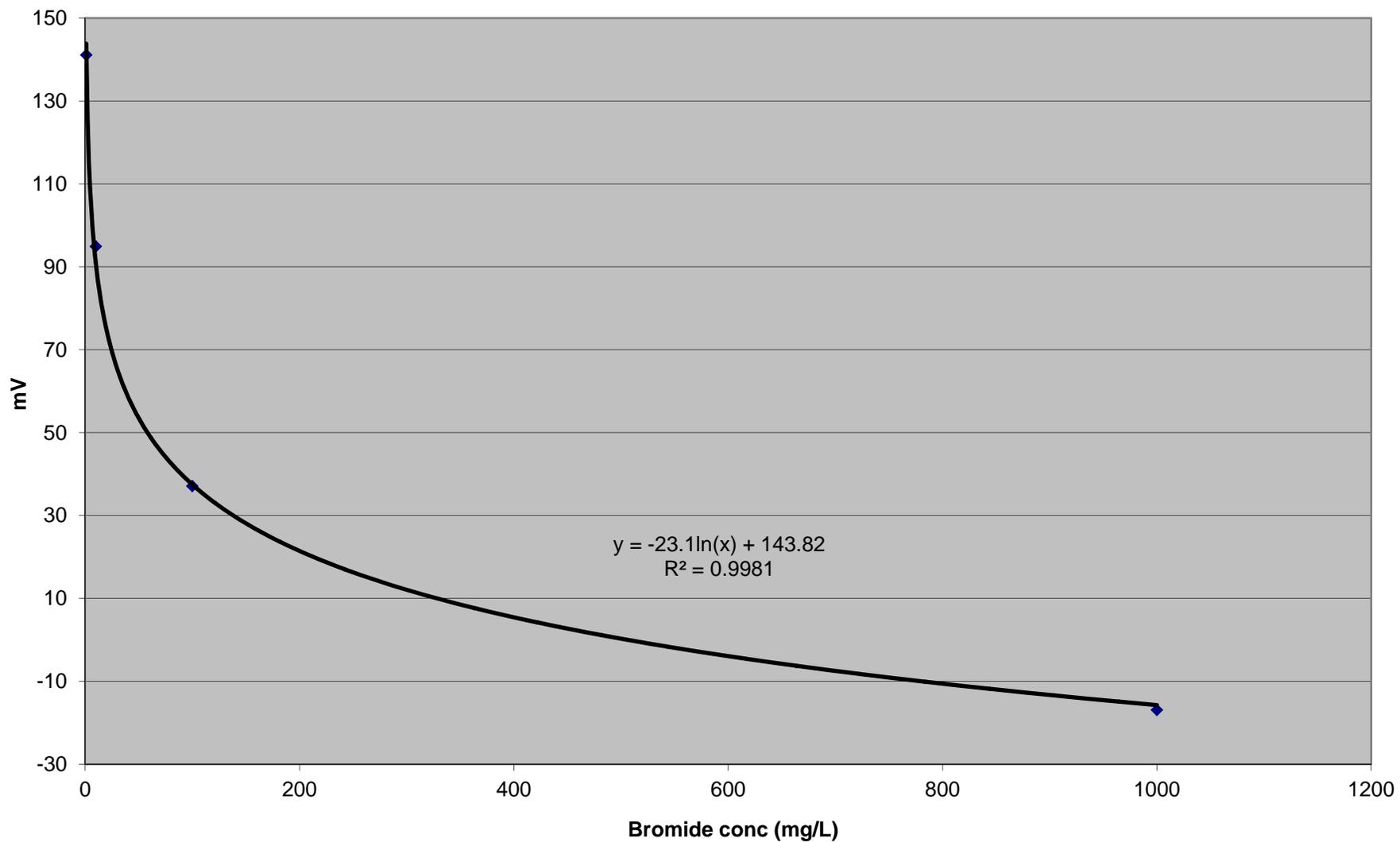
Bromide Calibration Curve #1



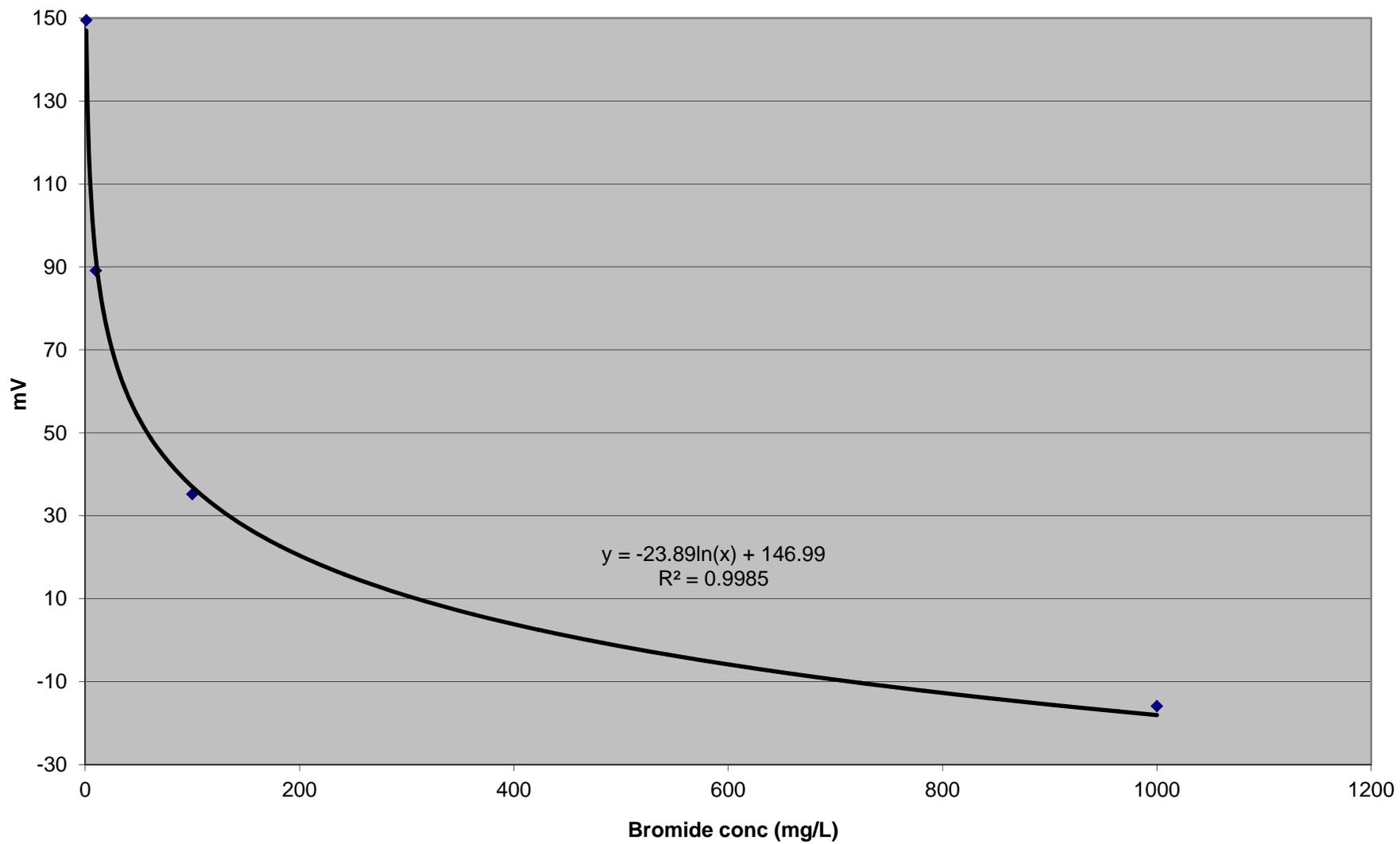
Bromide Calibration Curve #2



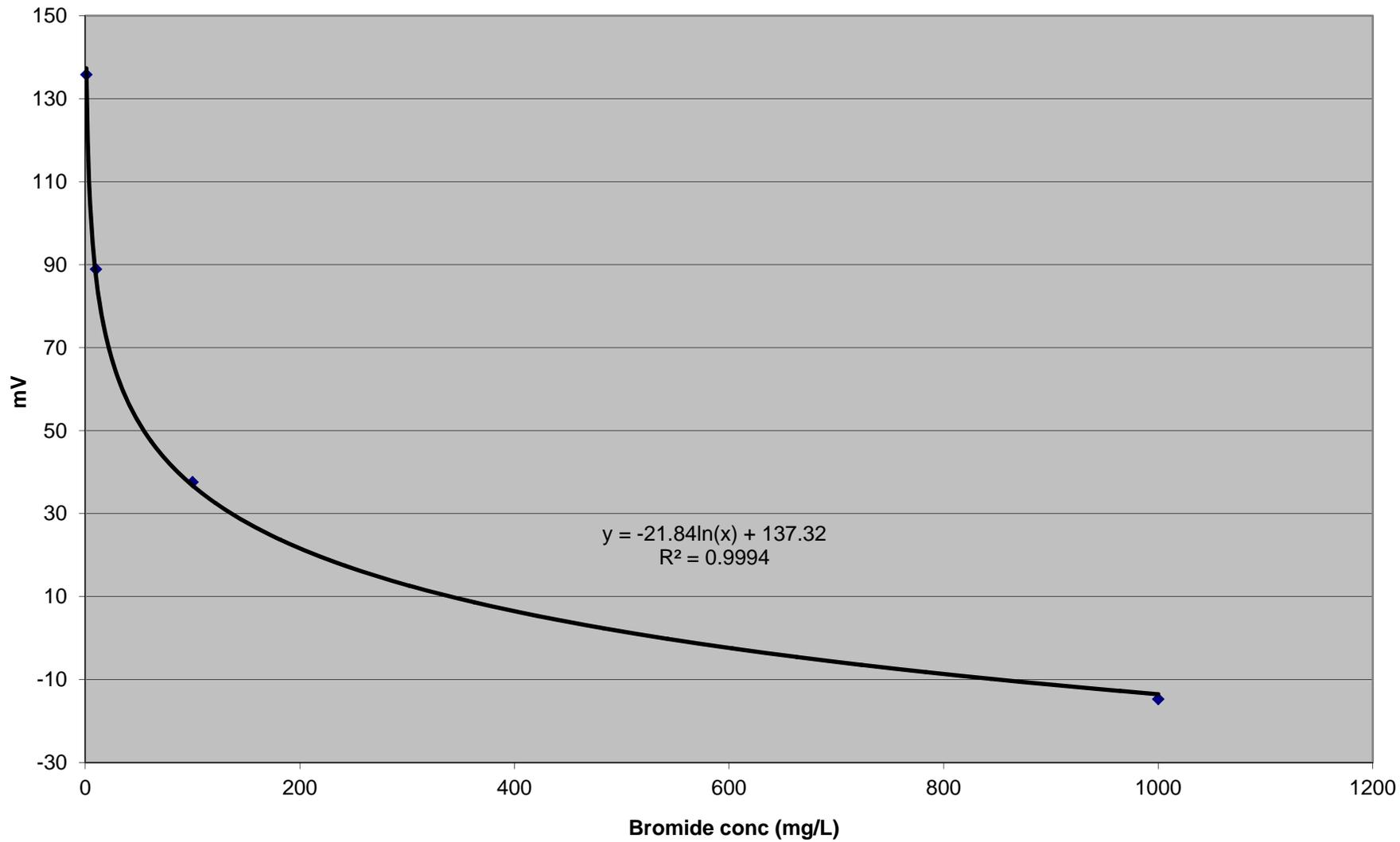
Bromide Calibration Curve #3



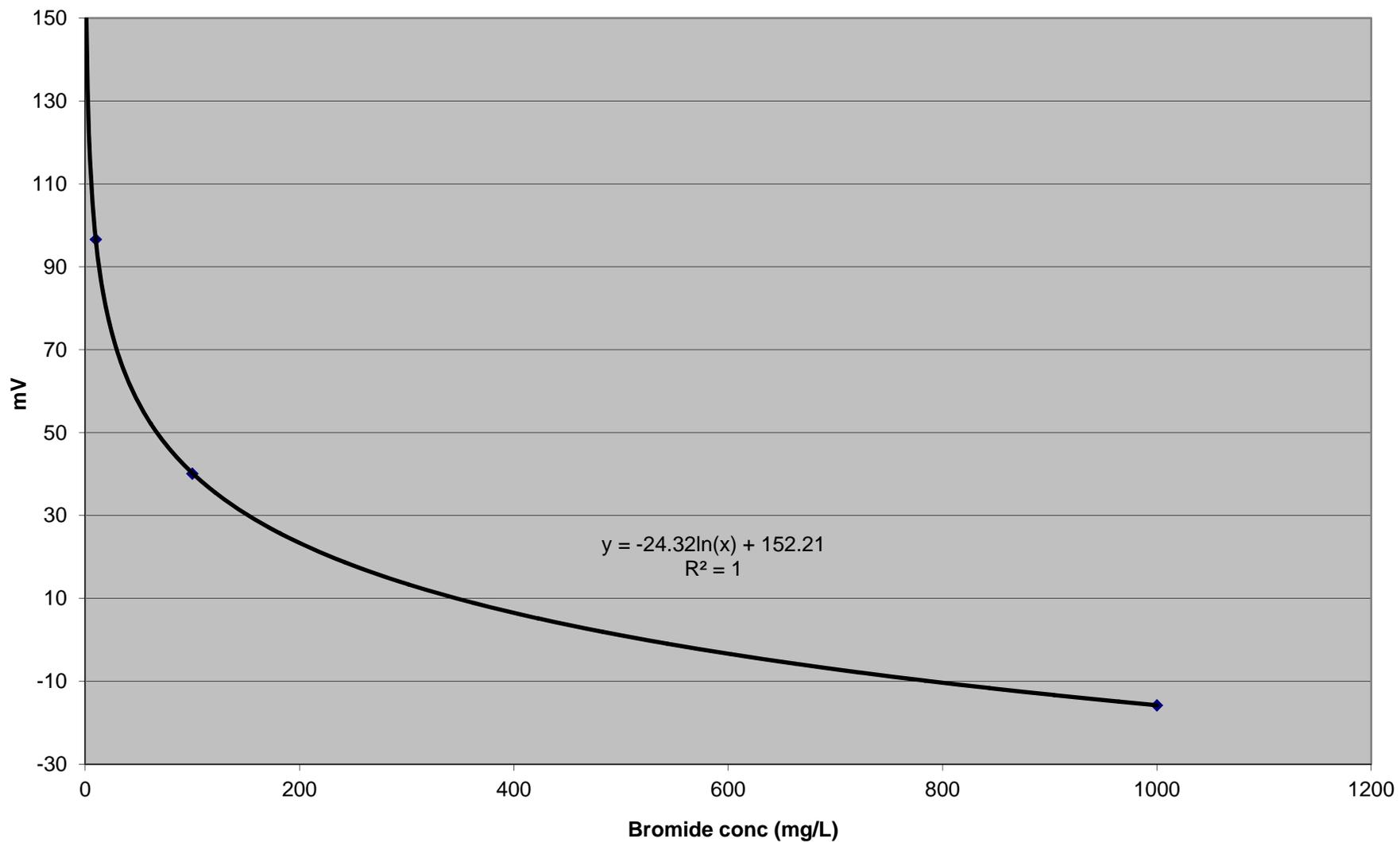
Bromide Calibration Curve #4



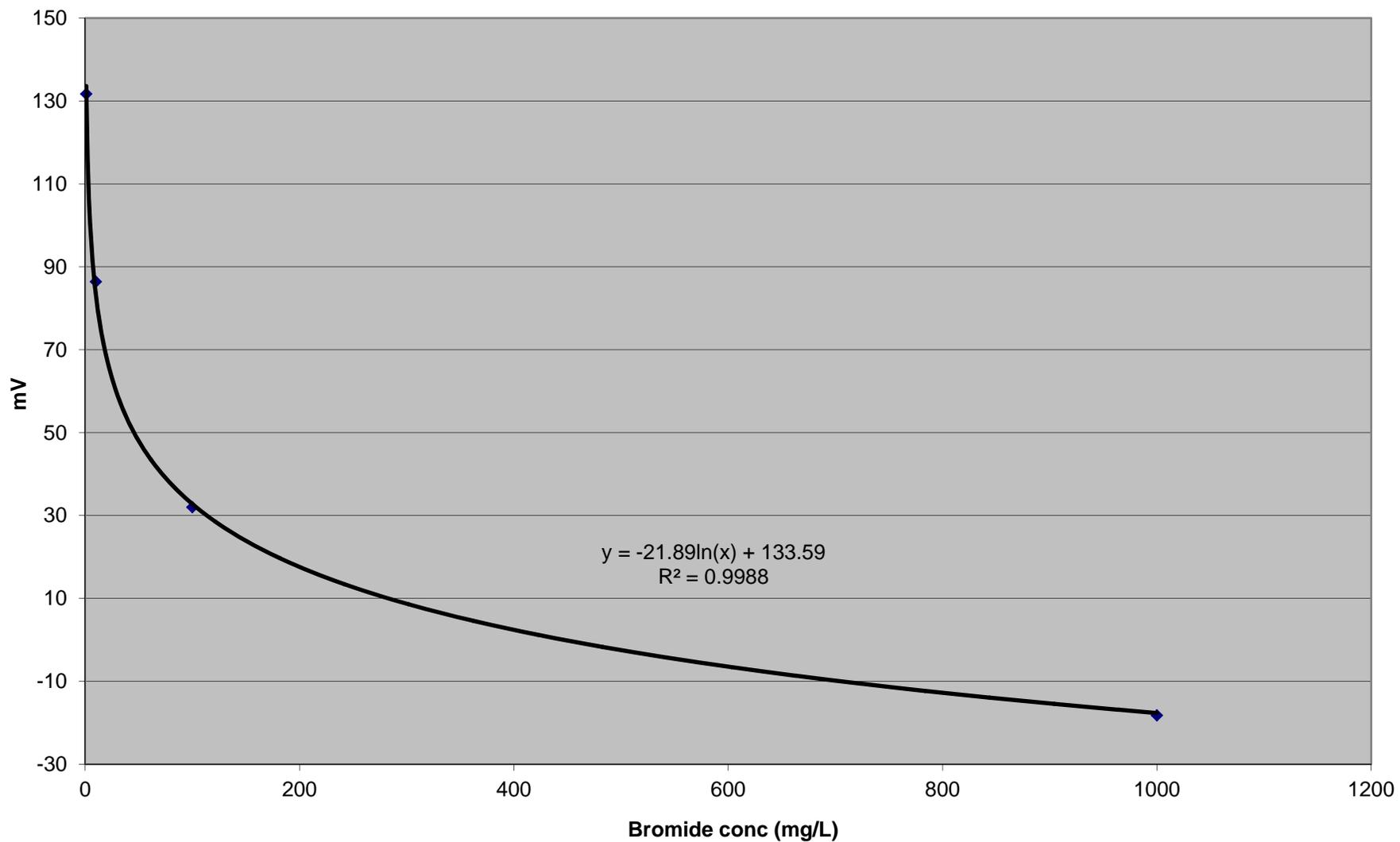
Bromide Calibration Curve #5



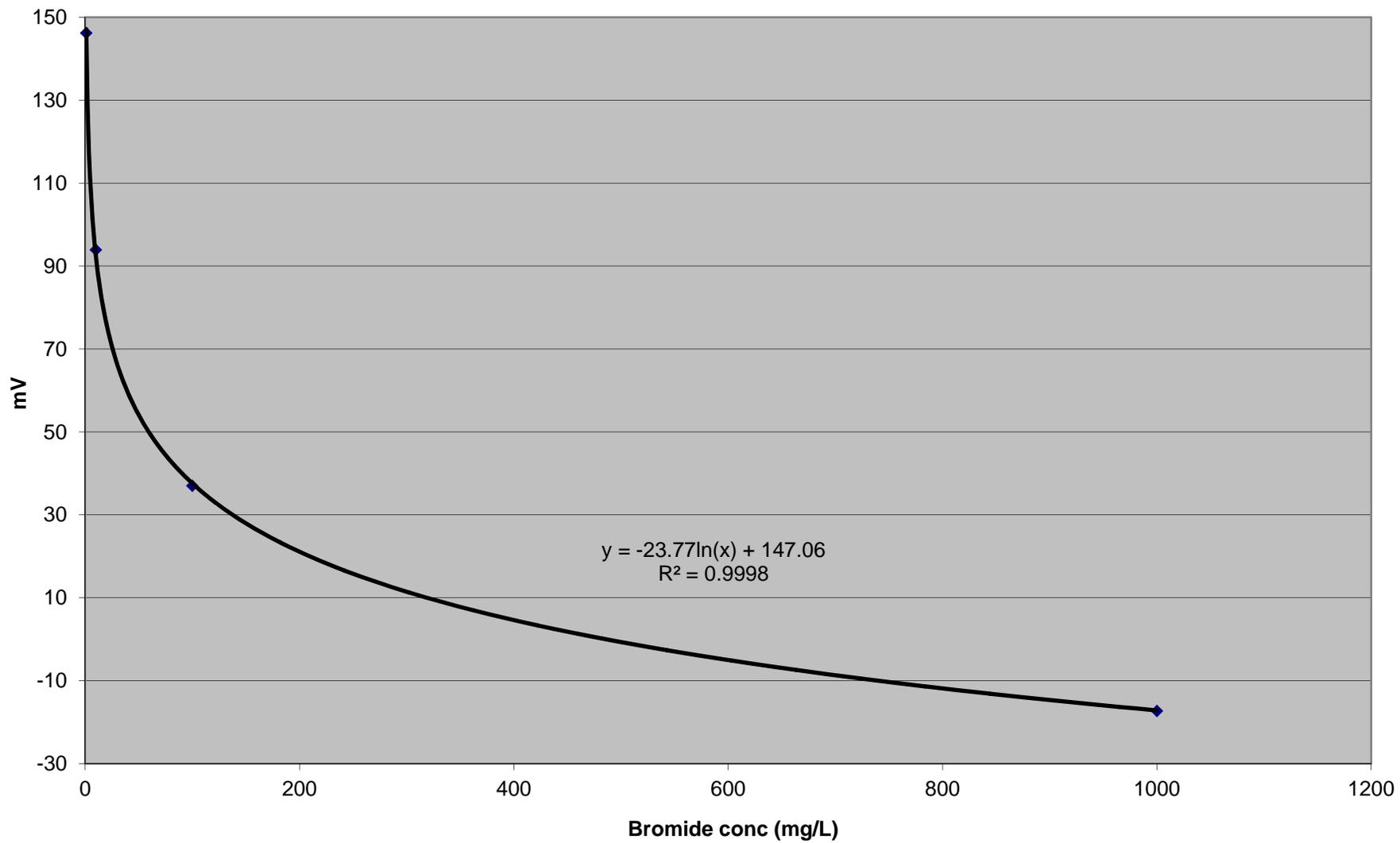
Bromide Calibration Curve #6



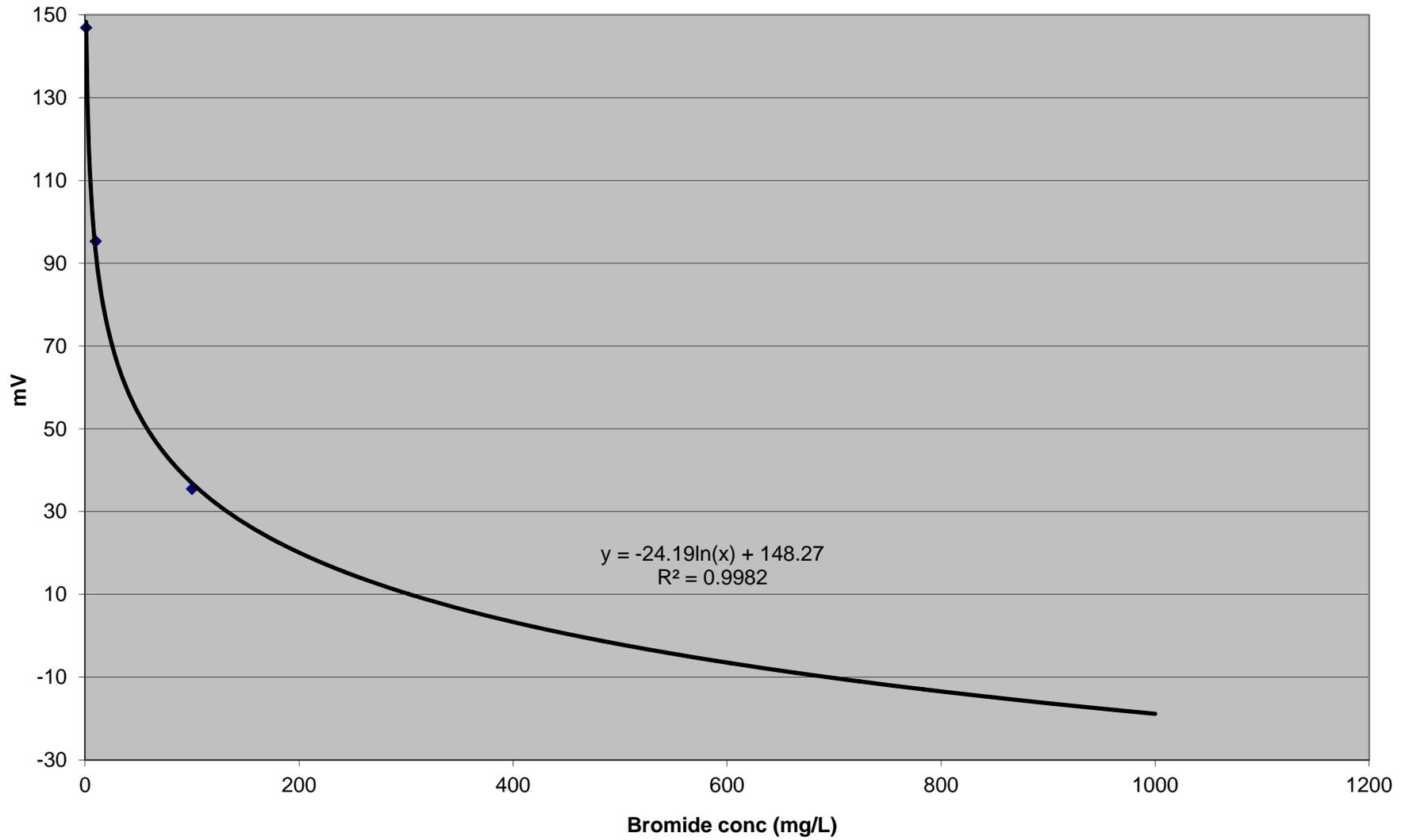
Bromide Calibration Curve #7



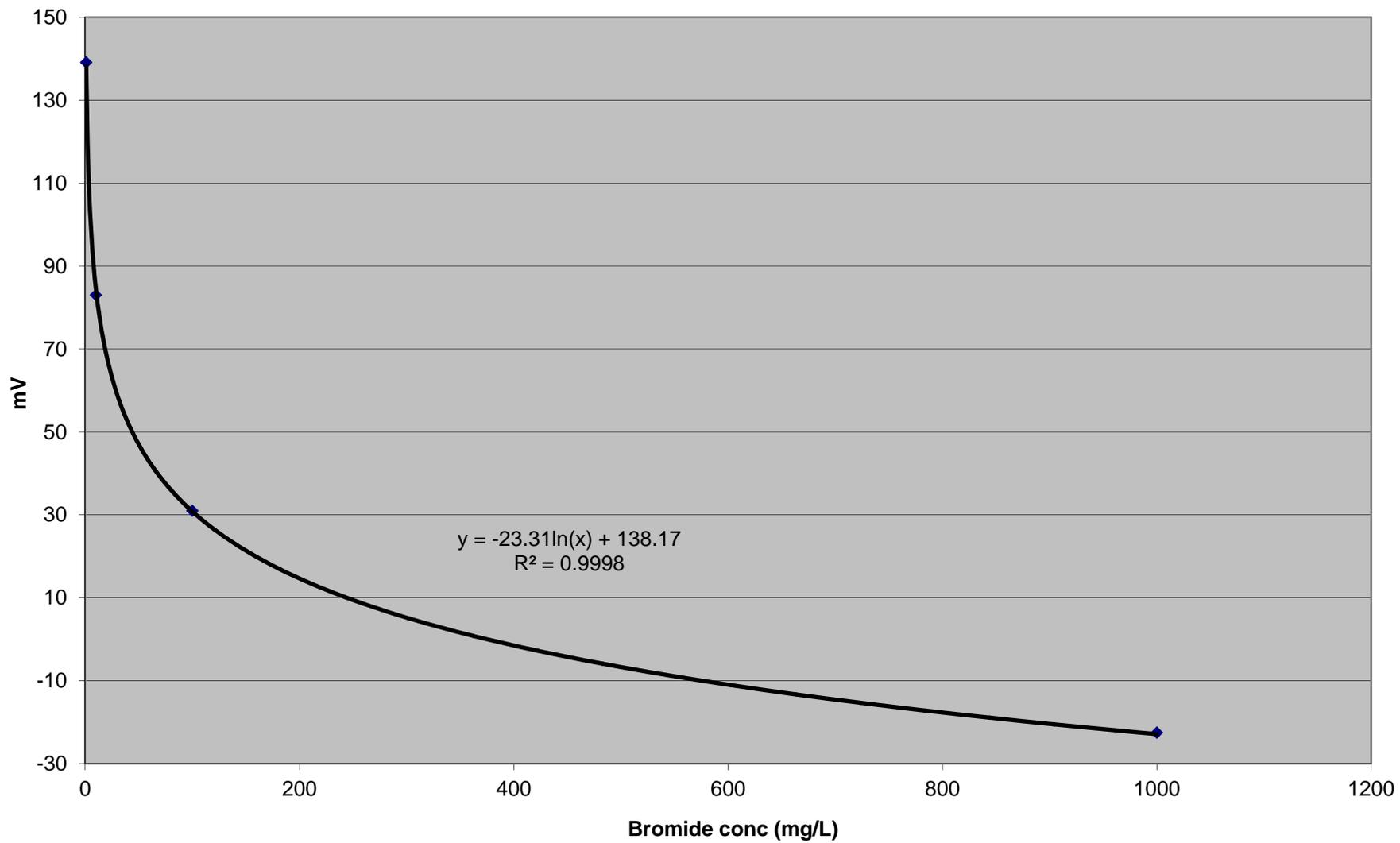
Bromide Calibration Curve #8



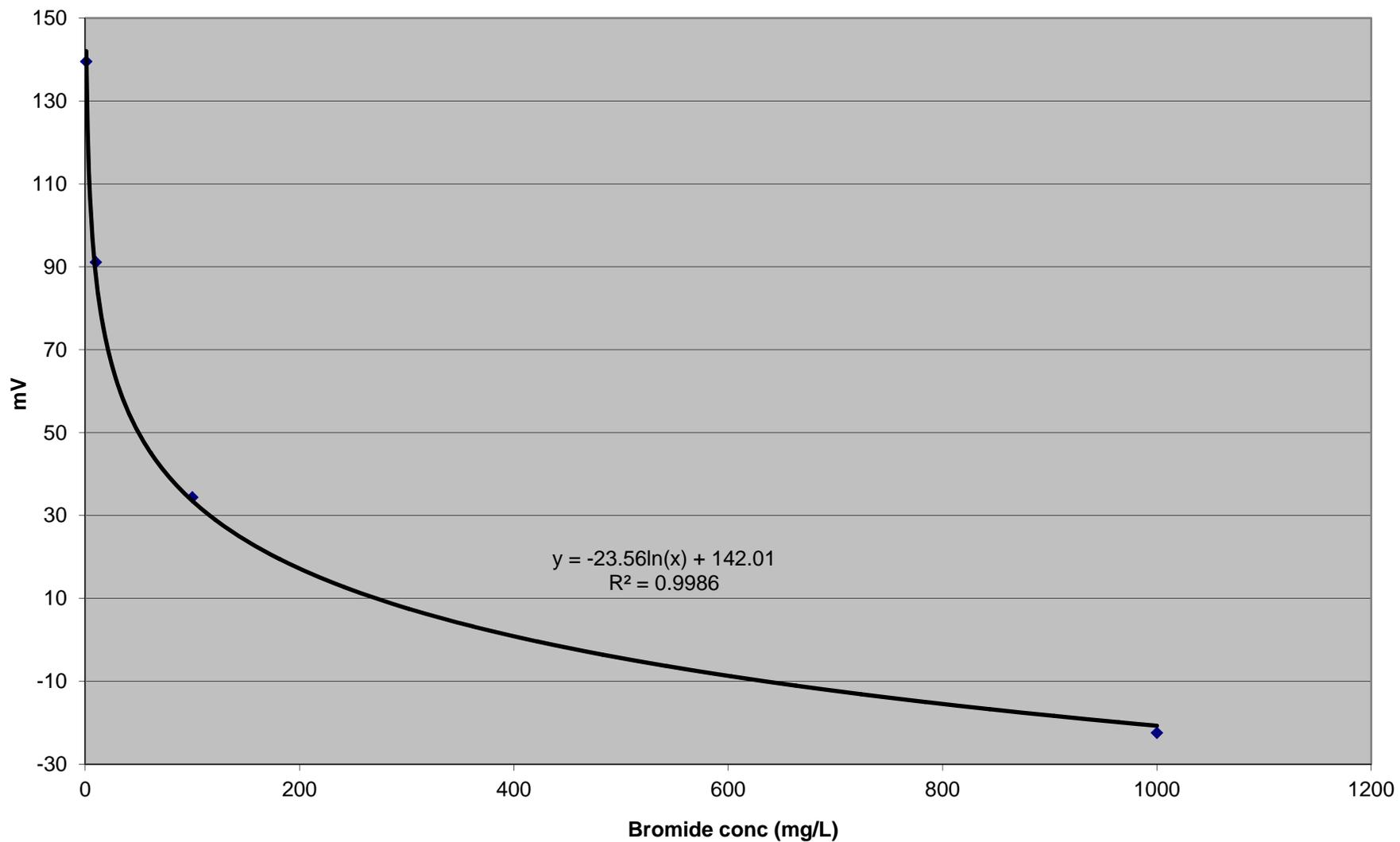
Bromide Calibration Curve #9



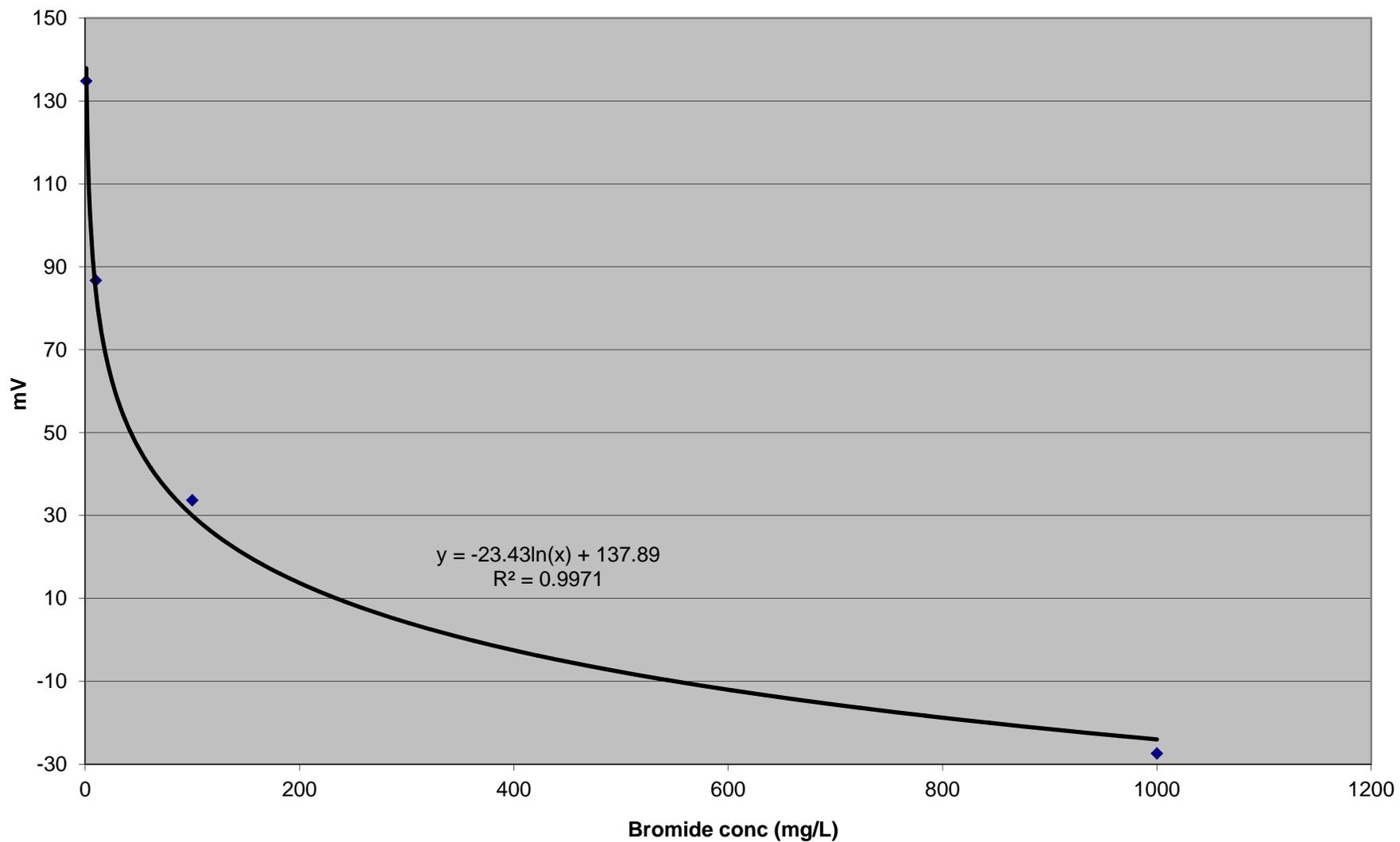
Bromide Calibration Curve #10



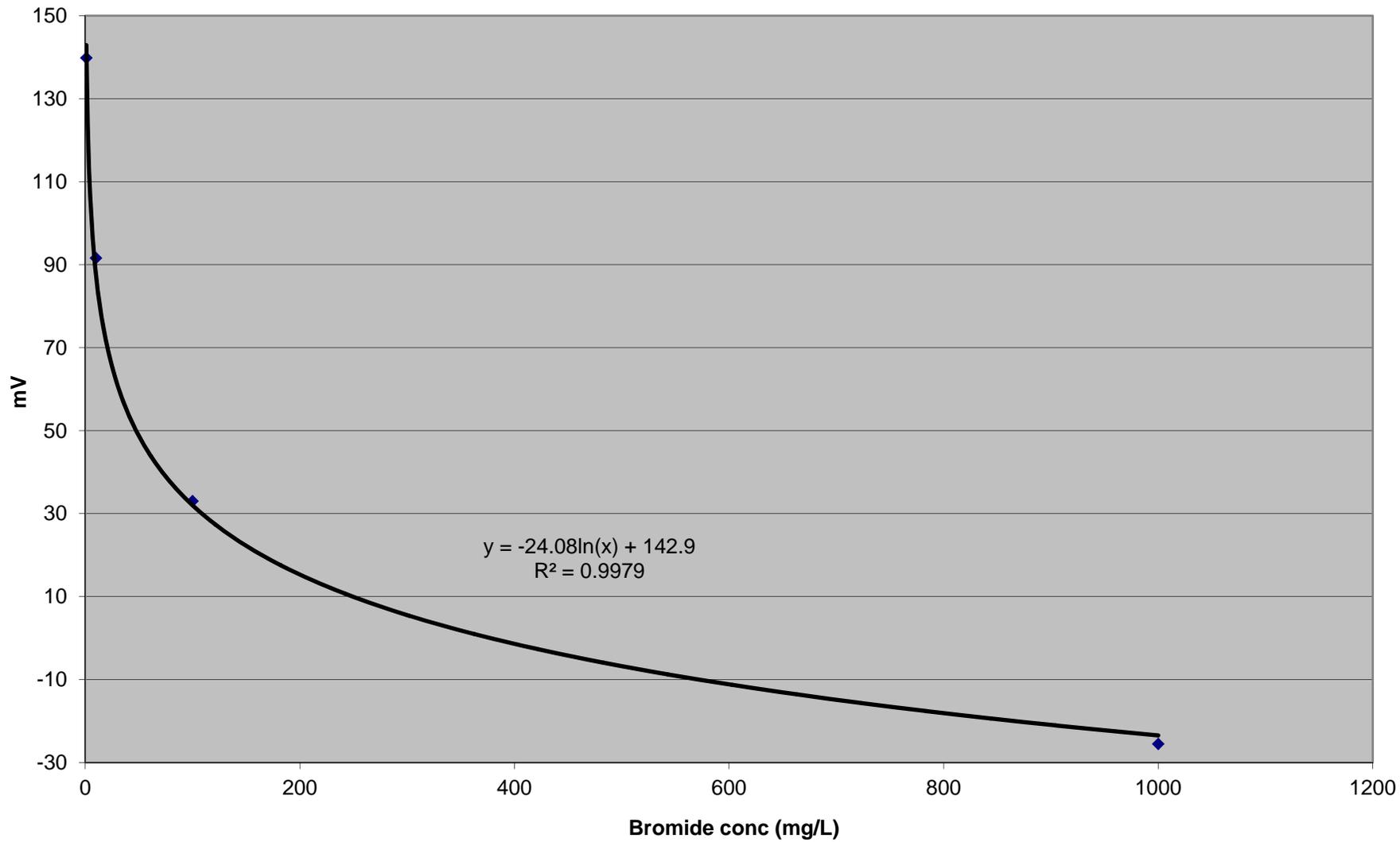
Bromide Calibration Curve #11



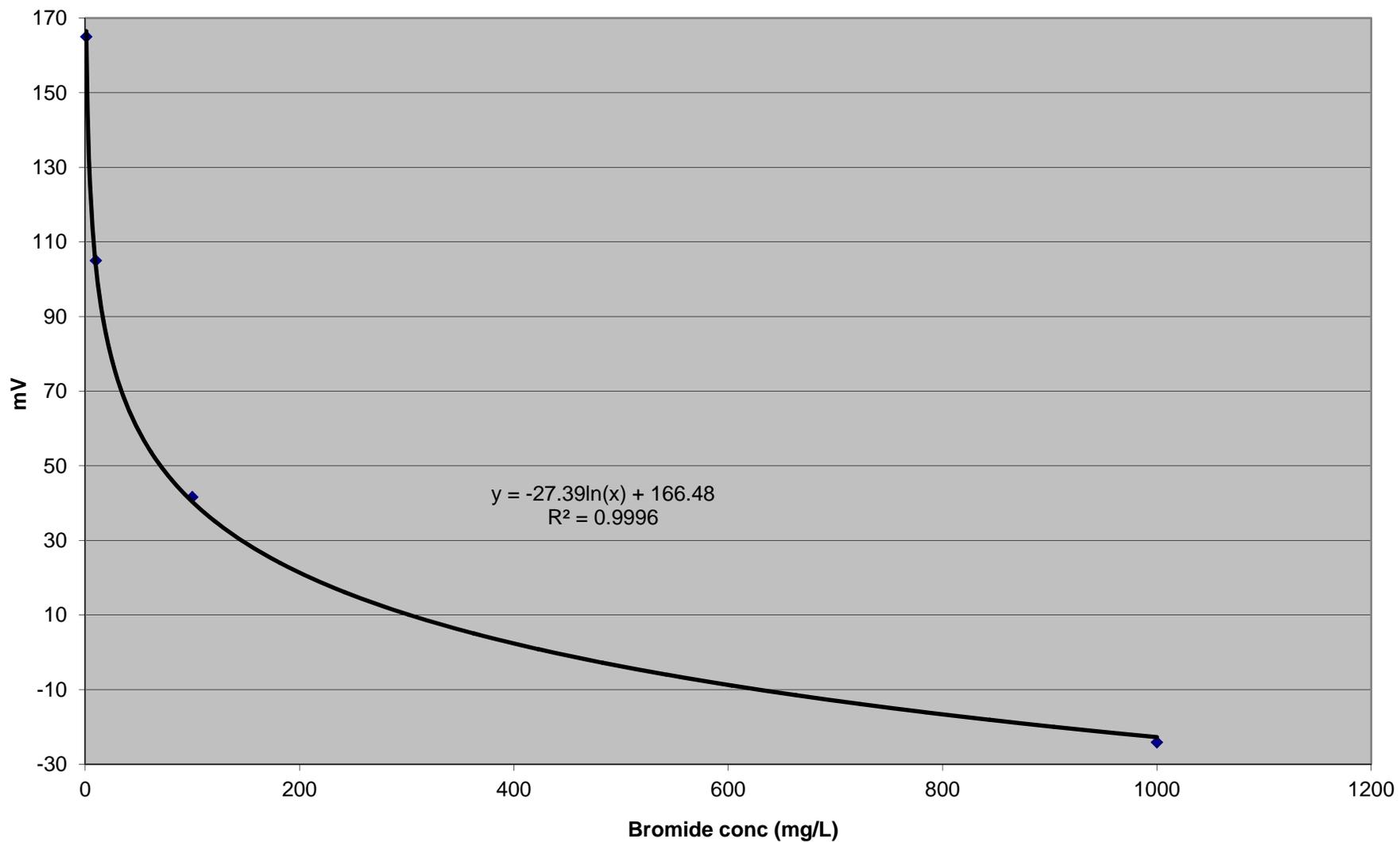
Bromide Calibration Curve #12



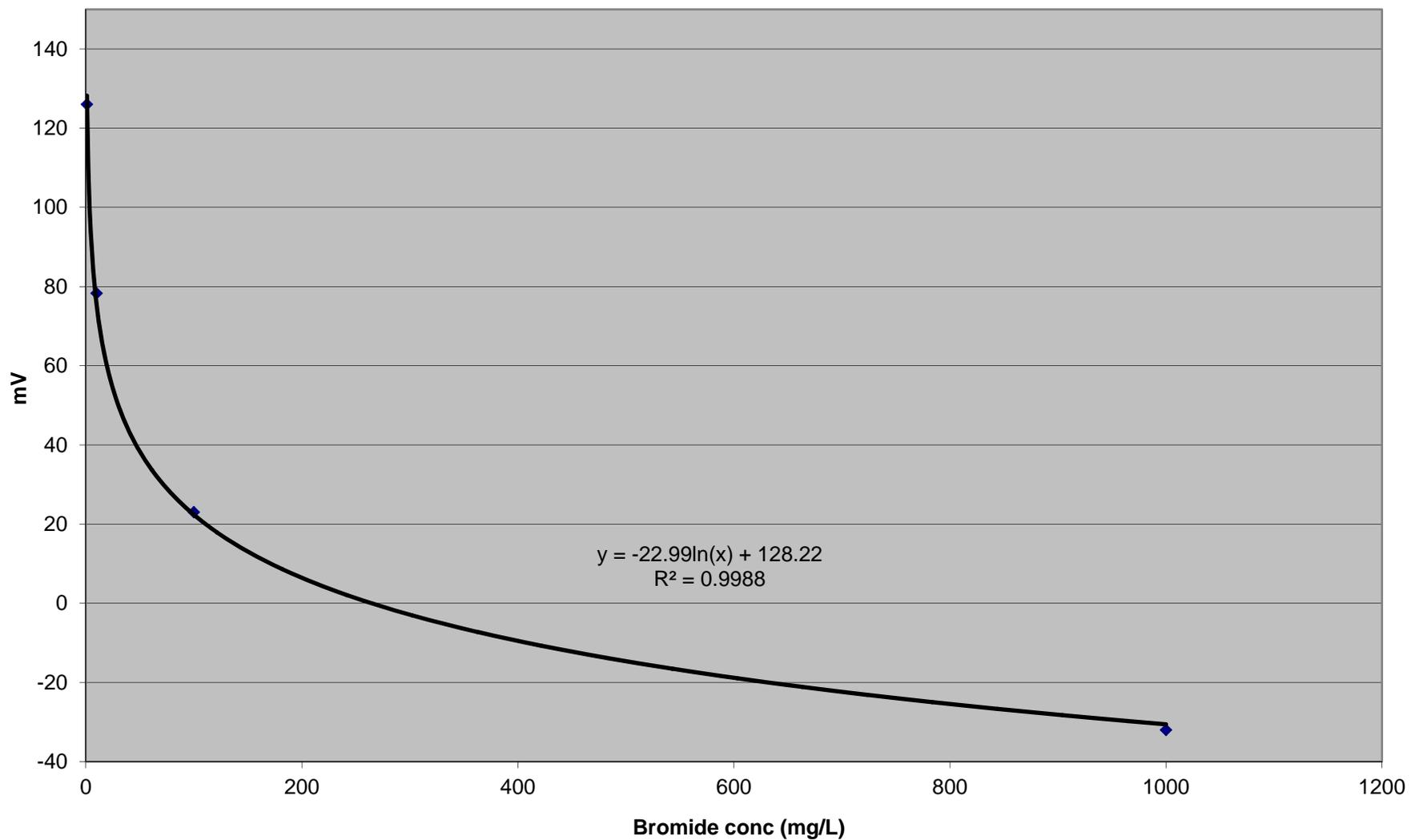
Bromide Calibration Curve #13



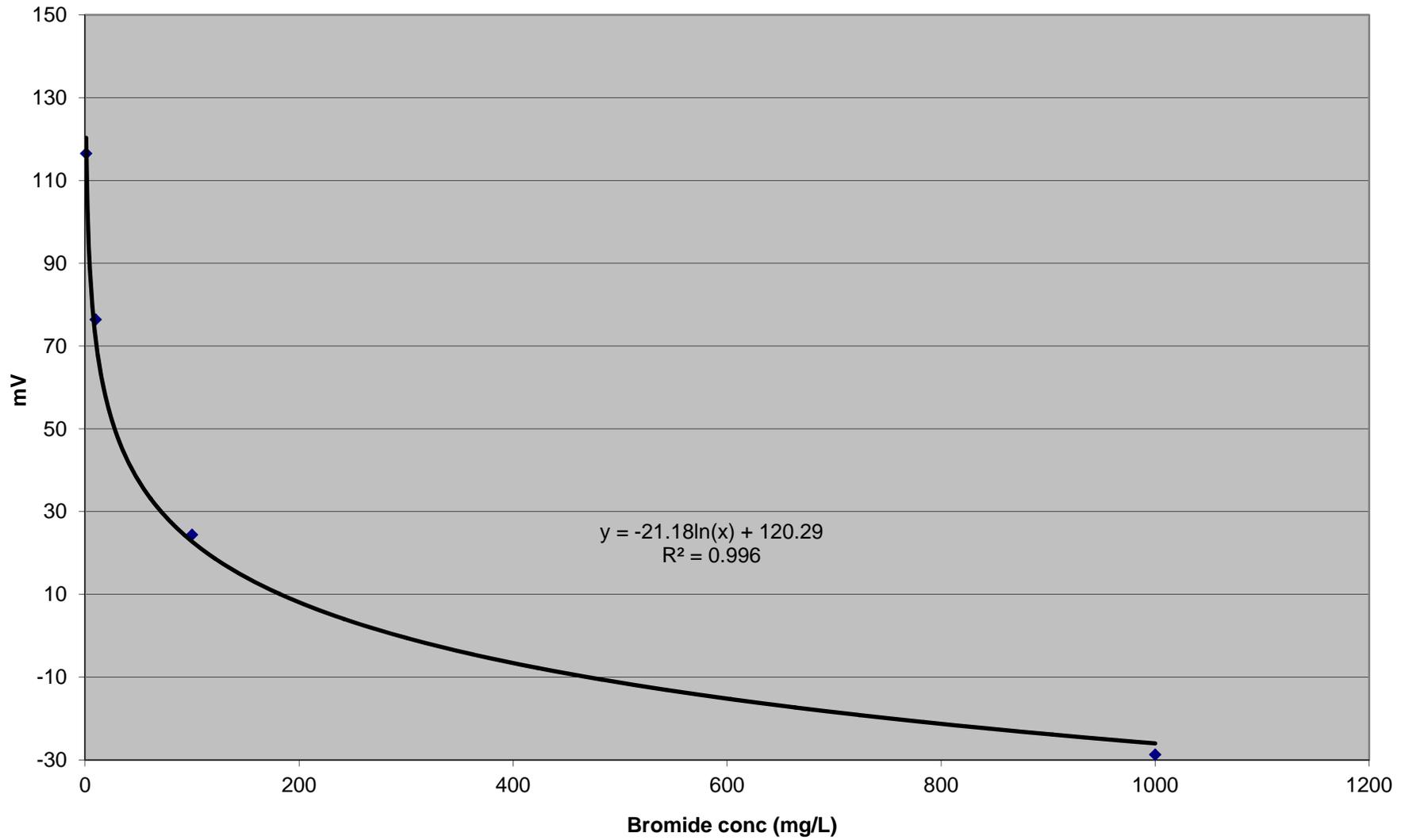
Bromide Calibration Curve #14



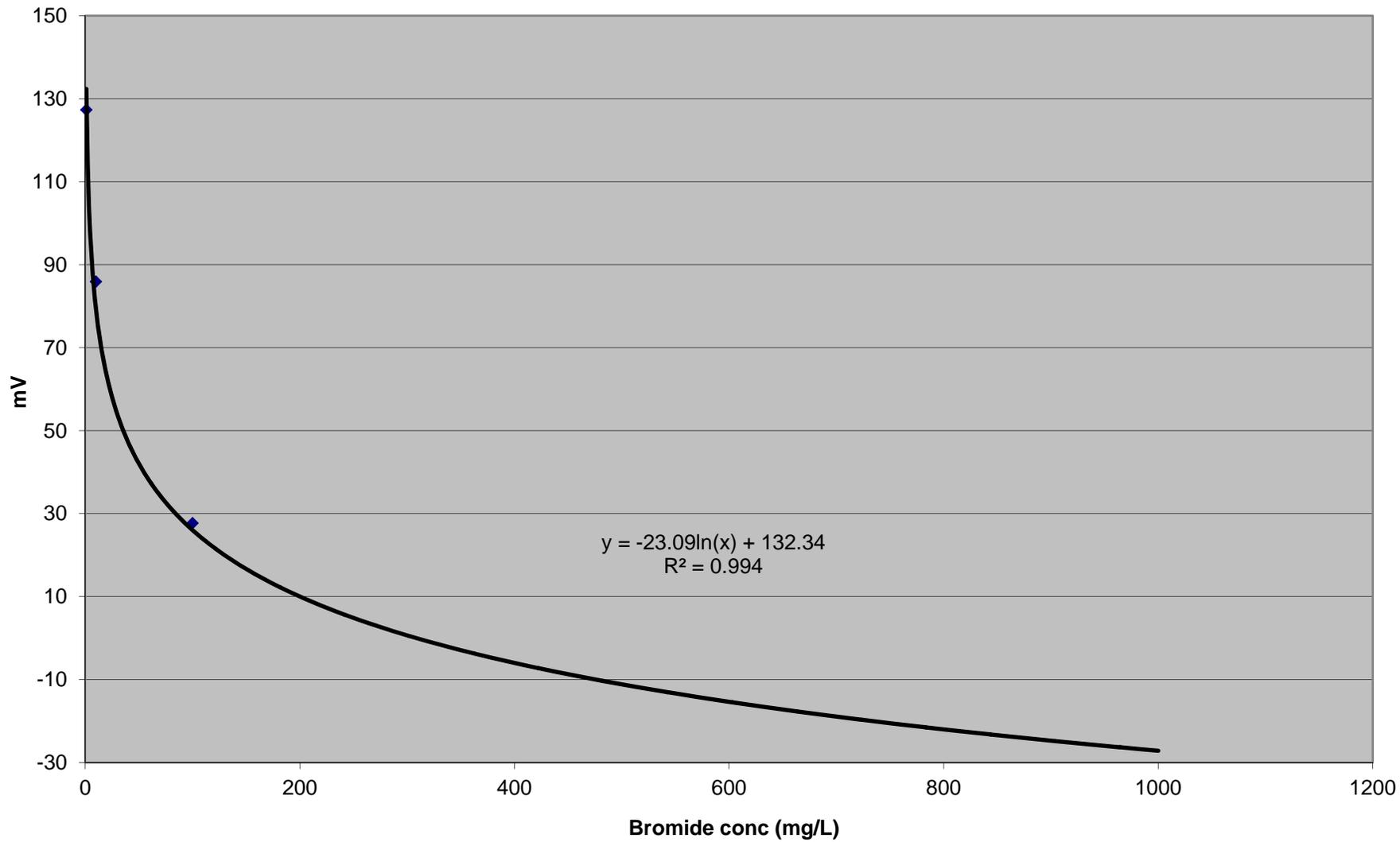
Bromide Calibration Curve #15



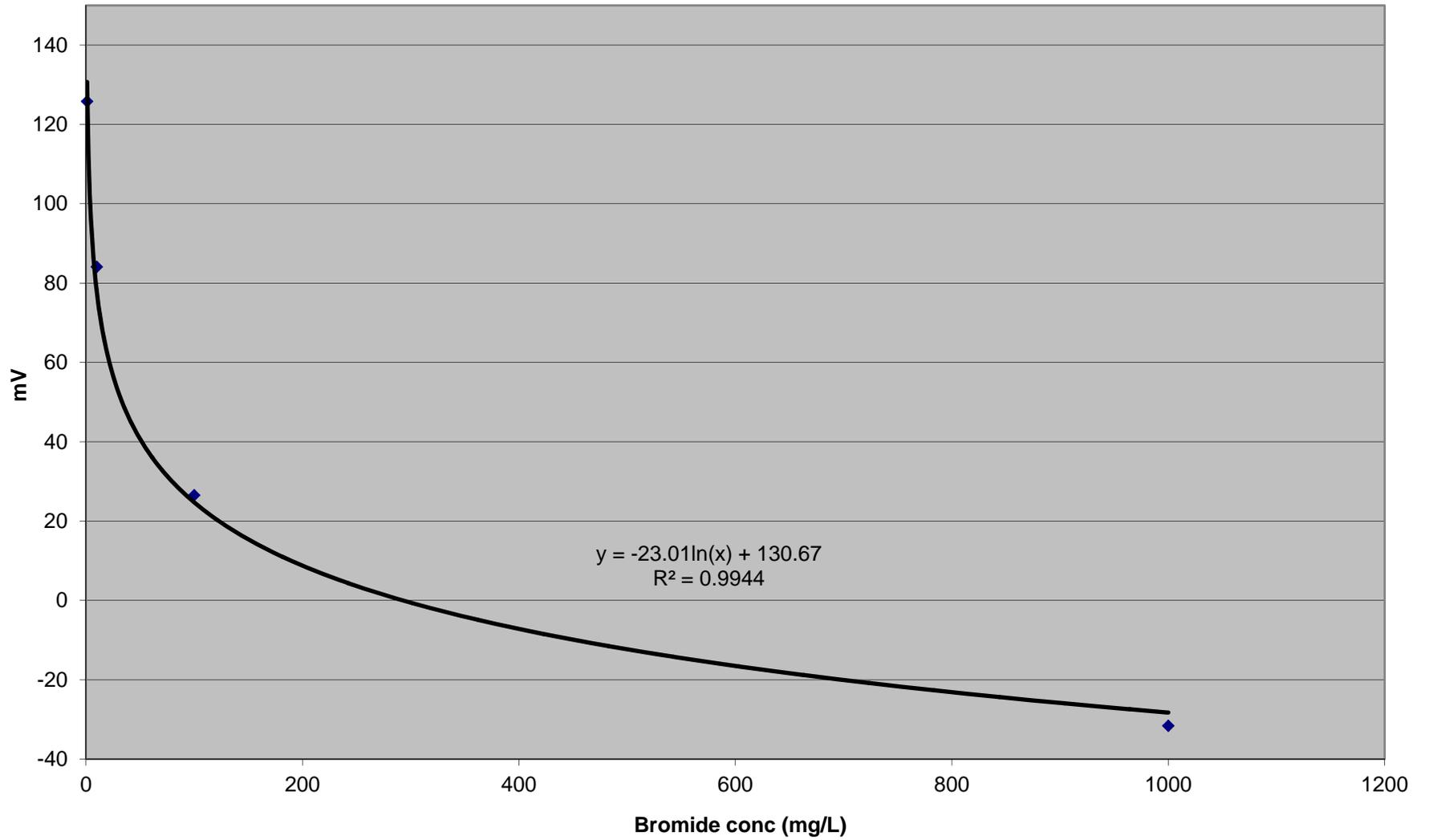
Bromide Calibration Curve #16



Bromide Calibration Curve #17



Bromide Calibration Curve #18



APPENDIX D
BOREHOLE DILUTION TEST ANALYSIS

TABLE D-1
BOREHOLE DILUTION TEST SAMPLING DETAILS 2011
DuPont Pompton Lakes Works, Pompton Lakes, New Jersey

Location	Tubing ID (m)	Tubing Radius (m)	Depth (ft bgs)	Depth (m bgs)	Total Tubing Length (ft)	Total Tubing Length (m)	Tubing Volume (mL)	Flow Rate (mL/min)	Estimated Sample Time (min)	Sample Volume (mL)	Total Volume Purged (mL)	Estimated Total Purge/Sample Time (min)
IW02-01	0.004	0.002	10	3	16	5	60	60	1.0	75	140	2.4
IW02-02	0.004	0.002	17	5	23	7	90	60	1.5	75	170	2.9
IW02-03	0.004	0.002	27	8	33	10	130	60	2.2	75	210	3.5
IW02-04	0.004	0.002	37	11	43	13	170	60	2.9	75	250	4.2
IW02-05	0.004	0.002	47	14	53	16	210	60	3.5	75	290	4.9
IW02-06	0.004	0.002	57	17	63	19	240	60	4.0	75	320	5.4
IW02-07	0.004	0.002	67	20	73	22	280	60	4.7	75	360	6.0

Notes:

ft - feet

ft - feet below ground surface

ID - inner diameter

IW - injection well

m - meters

m bgs - meters below ground surface

min - minutes

mL - milliliters

mL/min - milliliters per minute

TABLE D-2
BOREHOLE DILUTION TEST SAMPLING SCHEDULE 2011
DuPont Pompton Lakes Works, Pompton Lakes, New Jersey

Event	Baseline		Round 1*		Round 2		Round 3		Round 4		Round 5		Round 6	
Approximate Time Elapsed	Before Tracer Addition		0 min (Start of Tracer Test)		0 min		30 min		90 min		190 min		390 min	
Location	Br _{field}	Br _{lab}	Br _{field}	Br _{lab}	Br _{field}	Br _{lab}	Br _{field}	Br _{lab}	Br _{field}	Br _{lab}	Br _{field}	Br _{lab}	Br _{field}	Br _{lab}
IW02-01	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IW02-02	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IW02-03	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IW02-04	X	X	X	X	X	X	X	X	X	X	X	X		
IW02-05	X	X	X	X	X	X	X	X	X	X	X	X		
IW02-06	X	X	X	X	X	X	X	X	X	X	X	X		
IW02-07	X	X	X	X	X	X	X	X	X	X	X	X		

**TABLE D-2
BOREHOLE DILUTION TEST SAMPLING SCHEDULE 2011
DuPont Pompton Lakes Works, Pompton Lakes, New Jersey**

Event	Round 7		Round 8		Round 9		Round 10		Round 11		Round 12		Round 13	
Approximate Time Elapsed	1,100 min		1,500 min		1,800 min		2,600 min		7,000 min		8,300 min		9,800 min	
Location	Br _{field}	Br _{lab}												
IW02-01	X	X	X	X	X	X	X	X						
IW02-02	X	X	X	X	X	X	X	X						
IW02-03	X	X	X	X	X	X	X	X						
IW02-04	X	X	X	X	X	X	X	X						
IW02-05	X	X					X	X	X	X	X	X	X	X
IW02-06	X	X					X	X	X	X	X	X	X	X
IW02-07	X	X					X	X	X	X	X	X	X	X

Notes:

* Samples removed from analysis; mixing of tracer within the borehole was incomplete at time of sampling

Br - bromide

IW - injection well

min - minutes

TABLE D-3
BOREHOLE DILUTION TEST SAMPLE SUMMARY 2011
DuPont Pompton Lakes Works, Pompton Lakes, New Jersey

Location	Sample Identifier	Sample Date	Sample Time	Depth (ft bgs)	Sampling Round	Submitted to Lab
IW02-10	POM-G-IW02-10-1230	20-Jul-11	1230	10	Baseline	--
IW02-10	POM-G-IW02-10-1258	20-Jul-11	1258	10	Round 1	--
IW02-10	POM-G-IW02-10-1328	20-Jul-11	1328	10	Round 2	--
IW02-10	POM-G-IW02-10-1358	20-Jul-11	1358	10	Round 3	--
IW02-10	POM-G-IW02-10-1457	20-Jul-11	1457	10	Round 4	--
IW02-10	POM-G-IW02-10-1641	20-Jul-11	1641	10	Round 5	--
IW02-10	POM-G-IW02-10-1953	20-Jul-11	1953	10	Round 6	--
IW02-10	POM-G-IW02-10-0736	21-Jul-11	0736	10	Round 7	--
IW02-10	POM-G-IW02-10-1344	21-Jul-11	1344	10	Round 8	--
IW02-10	POM-G-IW02-10-1934	21-Jul-11	1934	10	Round 9	--
IW02-10	POM-G-IW02-10-0849	22-Jul-11	0849	10	Round 10	--
IW02-17	POM-G-IW02-17-1234	20-Jul-11	1234	17	Baseline	27-Jul-11
IW02-17	POM-G-IW02-17-1259	20-Jul-11	1259	17	Round 1	27-Jul-11
IW02-17	POM-G-IW02-17-1329	20-Jul-11	1329	17	Round 2	27-Jul-11
IW02-17	POM-G-IW02-17-1359	20-Jul-11	1359	17	Round 3	27-Jul-11
IW02-17	POM-G-IW02-17-1459	20-Jul-11	1459	17	Round 4	27-Jul-11
IW02-17	POM-G-IW02-17-1642	20-Jul-11	1642	17	Round 5	27-Jul-11
IW02-17	POM-G-IW02-17-1954	20-Jul-11	1954	17	Round 6	27-Jul-11
IW02-17	POM-G-IW02-17-0738	21-Jul-11	0738	17	Round 7	27-Jul-11
IW02-17	POM-G-IW02-17-1345	21-Jul-11	1345	17	Round 8	27-Jul-11
IW02-17	POM-G-IW02-17-1936	21-Jul-11	1936	17	Round 9	27-Jul-11
IW02-17	POM-G-IW02-17-0850	22-Jul-11	0850	17	Round 10	27-Jul-11
IW02-27	POM-G-IW02-27-1236	20-Jul-11	1236	27	Baseline	--
IW02-27	POM-G-IW02-27-1300	20-Jul-11	1300	27	Round 1	--
IW02-27	POM-G-IW02-27-1330	20-Jul-11	1330	27	Round 2	--
IW02-27	POM-G-IW02-27-1400	20-Jul-11	1400	27	Round 3	--
IW02-27	POM-G-IW02-27-1459	20-Jul-11	1459	27	Round 4	--
IW02-27	POM-G-IW02-27-1643	20-Jul-11	1643	27	Round 5	--
IW02-27	POM-G-IW02-27-1955	20-Jul-11	1955	27	Round 6	--
IW02-27	POM-G-IW02-27-0739	21-Jul-11	0739	27	Round 7	--
IW02-27	POM-G-IW02-27-1347	21-Jul-11	1347	27	Round 8	--
IW02-27	POM-G-IW02-27-1937	21-Jul-11	1937	27	Round 9	--
IW02-27	POM-G-IW02-27-0854	22-Jul-11	0854	27	Round 10	--
IW02-37	POM-G-IW02-37-1238	20-Jul-11	1238	37	Baseline	--
IW02-37	POM-G-IW02-37-1302	20-Jul-11	1302	37	Round 1	--
IW02-37	POM-G-IW02-37-1332	20-Jul-11	1332	37	Round 2	--
IW02-37	POM-G-IW02-37-1401	20-Jul-11	1401	37	Round 3	--
IW02-37	POM-G-IW02-37-1500	20-Jul-11	1500	37	Round 4	--
IW02-37	POM-G-IW02-37-1644	20-Jul-11	1644	37	Round 5	--
IW02-37	POM-G-IW02-37-0741	21-Jul-11	0741	37	Round 7	--
IW02-37	POM-G-IW02-37-1349	21-Jul-11	1349	37	Round 8	--
IW02-37	POM-G-IW02-37-1939	21-Jul-11	1939	37	Round 9	--
IW02-37	POM-G-IW02-37-0856	22-Jul-11	0856	37	Round 10	--

TABLE D-3
BOREHOLE DILUTION TEST SAMPLE SUMMARY 2011
DuPont Pompton Lakes Works, Pompton Lakes, New Jersey

Location	Sample Identifier	Sample Date	Sample Time	Depth (ft bgs)	Sampling Round	Submitted to Lab
IW02-47	POM-G-IW02-47-1240	20-Jul-11	1240	47	Baseline	--
IW02-47	POM-G-IW02-47-1303	20-Jul-11	1303	47	Round 1	--
IW02-47	POM-G-IW02-47-1334	20-Jul-11	1334	47	Round 2	--
IW02-47	POM-G-IW02-47-1402	20-Jul-11	1402	47	Round 3	--
IW02-47	POM-G-IW02-47-1501	20-Jul-11	1501	47	Round 4	--
IW02-47	POM-G-IW02-47-1645	20-Jul-11	1645	47	Round 5	--
IW02-47	POM-G-IW02-47-0743	21-Jul-11	0743	47	Round 7	--
IW02-47	POM-G-IW02-47-0859	22-Jul-11	0859	47	Round 10	--
IW02-47	POM-G-IW02-47-0934	25-Jul-11	0934	47	Round 11	--
IW02-47	POM-G-IW02-47-0830	26-Jul-11	0830	47	Round 12	--
IW02-47	POM-G-IW02-47-0849	27-Jul-11	0849	47	Round 13	--
IW02-57	POM-G-IW02-57-1242	20-Jul-11	1242	57	Baseline	27-Jul-11
IW02-57	POM-G-IW02-57-1304	20-Jul-11	1304	57	Round 1	27-Jul-11
IW02-57	POM-G-IW02-57-1336	20-Jul-11	1336	57	Round 2	27-Jul-11
IW02-57	POM-G-IW02-57-1403	20-Jul-11	1403	57	Round 3	27-Jul-11
IW02-57	POM-G-IW02-57-1503	20-Jul-11	1503	57	Round 4	27-Jul-11
IW02-57	POM-G-IW02-57-1647	20-Jul-11	1647	57	Round 5	27-Jul-11
IW02-57	POM-G-IW02-57-0744	21-Jul-11	0744	57	Round 7	27-Jul-11
IW02-57	POM-G-IW02-57-0901	22-Jul-11	0901	57	Round 10	27-Jul-11
IW02-57	POM-G-IW02-57-0936	25-Jul-11	0936	57	Round 11	27-Jul-11
IW02-57	POM-G-IW02-57-0833	26-Jul-11	0833	57	Round 12	27-Jul-11
IW02-57	POM-G-IW02-57-0852	27-Jul-11	0852	57	Round 13	27-Jul-11
IW02-67	POM-G-IW02-67-1245	20-Jul-11	1245	67	Baseline	--
IW02-67	POM-G-IW02-67-1305	20-Jul-11	1305	67	Round 1	--
IW02-67	POM-G-IW02-67-1338	20-Jul-11	1338	67	Round 2	--
IW02-67	POM-G-IW02-67-1405	20-Jul-11	1405	67	Round 3	--
IW02-67	POM-G-IW02-67-1504	20-Jul-11	1504	67	Round 4	--
IW02-67	POM-G-IW02-67-1648	20-Jul-11	1648	67	Round 5	--
IW02-67	POM-G-IW02-67-0747	21-Jul-11	0747	67	Round 7	--
IW02-67	POM-G-IW02-67-0902	22-Jul-11	0902	67	Round 10	--
IW02-67	POM-G-IW02-67-0938	25-Jul-11	0938	67	Round 11	--
IW02-67	POM-G-IW02-67-0836	26-Jul-11	0836	67	Round 12	--
IW02-67	POM-G-IW02-67-0854	27-Jul-11	0854	67	Round 13	--
Tracer Solution	POM-G-IW02-Tracer-1138	20-Jul-11	1138	--	Tracer Solution	27-Jul-11

Notes:

-- - not applicable

ft bgs - feet below ground surface

IW - injection well

TABLE D-4
BOREHOLE DILUTION TEST SUMMARY OF RESULTS 2011
DuPont Pompton Lakes Works, Pompton Lakes, New Jersey

Location	Depth (ft bgs)	Data Type	Velocity (ft/day)	Calculated K (ft/day)
IW02-01	10	Field	0.34	51
IW02-02	17	Field	0.40	59
		Lab	0.32	48
IW02-03	27	Field	0.36	54
IW02-04	37	Field	0.36	54
IW02-05	47	Field	0.11	17
IW02-06	57	Field	0.09	14
		Lab	0.09	14
IW02-07	67	Field	0.08	11

Notes:

ft bgs - feet below ground surface

ft/day - feet per day

IW - injection well

K - hydraulic conductivity

Assumptions:

Porosity = 0.25

Hydraulic gradient = 0.00167

r = 2 inches

TABLE D-5
BOREHOLE DILUTION TEST SAMPLING DETAILS 2014
DuPont Pompton Lakes Works, Pompton Lakes, New Jersey

Location	Tubing ID (m)	Tubing Radius (m)	Depth (ft bgs)	Depth (m bgs)	Total Tubing Length (ft)	Total Tubing Length (m)	Tubing Volume (mL)	Flow Rate (mL/min)	Estimated Sample Time (min)	Sample Volume (mL)	Total Volume Purged (mL)	Estimated Total Purge/Sample Time (min)
IW02-02	0.004	0.002	17	5	23	7	90	60	1.5	75	170	2.9
IW02-03	0.004	0.002	27	8	33	10	130	60	2.2	75	210	3.5
IW02-04	0.004	0.002	37	11	43	13	170	60	2.9	75	250	4.2
IW02-05	0.004	0.002	47	14	53	16	210	60	3.5	75	290	4.9
IW02-06	0.004	0.002	57	17	63	19	240	60	4.0	75	320	5.4
IW02-07	0.004	0.002	67	20	73	22	280	60	4.7	75	360	6.0

Notes:

ft - feet

ft - feet below ground surface

ID - inner diameter

IW - injection well

m - meters

m bgs - meters below ground surface

min - minutes

mL - milliliters

mL/min - milliliters per minute

**TABLE D-6
BOREHOLE DILUTION TEST SAMPLING SCHEDULE 2014
DuPont Pompton Lakes Works, Pompton Lakes, New Jersey**

Event	Baseline		Round 1*		Round 2		Round 3		Round 4		Round 5		Round 6	
Approximate Time Elapsed	Before Tracer Addition		0 min (Start of Tracer Test)		0 min		60 min		100 min		1,000 min		2,600 min	
Location	Br _{field}	Br _{lab}	Br _{field}	Br _{lab}	Br _{field}	Br _{lab}	Br _{field}	Br _{lab}	Br _{field}	Br _{lab}	Br _{field}	Br _{lab}	Br _{field}	Br _{lab}
IW02-02	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IW02-03	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IW02-04	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IW02-05	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IW02-06	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IW02-07	X	X	X	X	X	X	X	X	X	X	X	X	X	X

TABLE D-6
BOREHOLE DILUTION TEST SAMPLING SCHEDULE 2014
DuPont Pompton Lakes Works, Pompton Lakes, New Jersey

Event	Round 7		Round 8		Round 9		Round 10	
Approximate Time Elapsed	2,800 min		4200 min		5400 min		9700 min	
Location	Br _{field}	Br _{lab}						
IW02-02	X	X	X	X	X	X	X	X
IW02-03	X	X	X	X	X	X	X	X
IW02-04	X	X	X	X	X	X	X	X
IW02-05	X	X	X	X	X	X	X	X
IW02-06	X	X	X	X	X	X	X	X
IW02-07	X	X	X	X	X	X	X	X

Notes:

* Samples removed from analysis; mixing of tracer within the borehole was incomplete at time of sampling

Br - bromide

IW - injection well

min - minutes

TABLE D-7
BOREHOLE DILUTION TEST SAMPLE SUMMARY 2014
DuPont Pompton Lakes Works, Pompton Lakes, New Jersey

Location	Sample Identifier	Sample Date	Sample Time	Depth (ft bgs)	Sampling Round	Submitted to Lab
IW02-17	GW-012014-IW02-17-1241 Groundwater	20-Jan-14	1241	17	Baseline	--
IW02-17	GW-012014-IW02-17-1400 Groundwater	20-Jan-14	1400	17	Round 1	--
IW02-17	GW-012014-IW02-17-1451 Groundwater	20-Jan-14	1451	17	Round 2	--
IW02-17	GW-012014-IW02-17-1548 Groundwater	20-Jan-14	1548	17	Round 3	--
IW02-17	GW-012014-IW02-17-1643 Groundwater	20-Jan-14	1643	17	Round 4	--
IW02-17	GW-012114-IW02-17-0831 Groundwater	21-Jan-14	831	17	Round 5	--
IW02-17	GW-012214-IW02-17-1035 Groundwater	22-Jan-14	1035	17	Round 6	--
IW02-17	GW-012214-IW02-17-1447 Groundwater	22-Jan-14	1447	17	Round 7	--
IW02-17	GW-012314-IW02-17-1306 Groundwater	23-Jan-14	1306	17	Round 8	--
IW02-17	GW-012414-IW02-17-0930 Groundwater	24-Jan-14	930	17	Round 9	--
IW02-17	GW-012714-IW02-17-0936 Groundwater	27-Jan-14	936	17	Round 10	--
IW02-27	GW-012014-IW02-27-1247 Groundwater	20-Jan-14	1247	27	Baseline	--
IW02-27	GW-012014-IW02-27-1357 Groundwater	20-Jan-14	1357	27	Round 1	--
IW02-27	GW-012014-IW02-27-1448 Groundwater	20-Jan-14	1448	27	Round 2	--
IW02-27	GW-012014-IW02-27-1545 Groundwater	20-Jan-14	1545	27	Round 3	--
IW02-27	GW-012014-IW02-27-1640 Groundwater	20-Jan-14	1640	27	Round 4	--
IW02-27	GW-012114-IW02-27-0828 Groundwater	21-Jan-14	0828	27	Round 5	--
IW02-27	GW-012214-IW02-27-1032 Groundwater	22-Jan-14	1032	27	Round 6	--
IW02-27	GW-012214-IW02-27-1445 Groundwater	22-Jan-14	1445	27	Round 7	--
IW02-27	GW-012314-IW02-27-1311 Groundwater	23-Jan-14	1311	27	Round 8	--
IW02-27	GW-012414-IW02-27-0928 Groundwater	24-Jan-14	928	27	Round 9	--
IW02-27	GW-012714-IW02-27-0933 Groundwater	27-Jan-14	933	27	Round 10	--
IW02-37	GW-012014-IW02-37-1252 Groundwater	20-Jan-14	1252	37	Baseline	--
IW02-37	GW-012014-IW02-37-1353 Groundwater	20-Jan-14	1353	37	Round 1	--
IW02-37	GW-012014-IW02-37-1445 Groundwater	20-Jan-14	1445	37	Round 2	--
IW02-37	GW-012014-IW02-37-1542 Groundwater	20-Jan-14	1542	37	Round 3	--
IW02-37	GW-012014-IW02-37-1637 Groundwater	20-Jan-14	1637	37	Round 4	--
IW02-37	GW-012114-IW02-37-0825 Groundwater	21-Jan-14	825	37	Round 5	--
IW02-37	GW-012214-IW02-37-1029 Groundwater	22-Jan-14	1029	37	Round 6	--
IW02-37	GW-012214-IW02-37-1443 Groundwater	22-Jan-14	1443	37	Round 7	--
IW02-37	GW-012314-IW02-37-1300 Groundwater	23-Jan-14	1300	37	Round 8	--
IW02-37	GW-012414-IW02-37-0925 Groundwater	24-Jan-14	925	37	Round 9	--
IW02-37	GW-012714-IW02-37-0931 Groundwater	27-Jan-14	931	37	Round 10	--

TABLE D-7
BOREHOLE DILUTION TEST SAMPLE SUMMARY 2014
DuPont Pompton Lakes Works, Pompton Lakes, New Jersey

Location	Sample Identifier	Sample Date	Sample Time	Depth (ft bgs)	Sampling Round	Submitted to Lab
IW02-47	GW-012014-IW02-47-1257 Groundwater	20-Jan-14	1257	47	Baseline	27-Jan-14
IW02-47	GW-012014-IW02-47-1350 Groundwater	20-Jan-14	1350	47	Round 1	27-Jan-14
IW02-47	GW-012014-IW02-47-1442 Groundwater	20-Jan-14	1442	47	Round 2	27-Jan-14
IW02-47	GW-012014-IW02-47-1539 Groundwater	20-Jan-14	1539	47	Round 3	27-Jan-14
IW02-47	GW-012014-IW02-47-1633 Groundwater	20-Jan-14	1633	47	Round 4	27-Jan-14
IW02-47	GW-012114-IW02-47-0822 Groundwater	21-Jan-14	822	47	Round 5	27-Jan-14
IW02-47	GW-012214-IW02-47-1026 Groundwater	22-Jan-14	1026	47	Round 6	27-Jan-14
IW02-47	GW-012214-IW02-47-1440 Groundwater	22-Jan-14	1440	47	Round 7	27-Jan-14
IW02-47	GW-012314-IW02-47-1343 Groundwater	23-Jan-14	1343	47	Round 8	27-Jan-14
IW02-47	GW-012414-IW02-47-0922 Groundwater	24-Jan-14	922	47	Round 9	27-Jan-14
IW02-47	GW-012714-IW02-47-0922 Groundwater	27-Jan-14	922	47	Round 10	27-Jan-14
IW02-57	GW-012014-IW02-57-1300 Groundwater	20-Jan-14	1300	57	Baseline	--
IW02-57	GW-012014-IW02-57-1347 Groundwater	20-Jan-14	1347	57	Round 1	--
IW02-57	GW-012014-IW02-57-1440 Groundwater	20-Jan-14	1440	57	Round 2	--
IW02-57	GW-012014-IW02-57-1536 Groundwater	20-Jan-14	1536	57	Round 3	--
IW02-57	GW-012014-IW02-57-1630 Groundwater	20-Jan-14	1630	57	Round 4	--
IW02-57	GW-012114-IW02-57-0819 Groundwater	21-Jan-14	819	57	Round 5	--
IW02-57	GW-012214-IW02-57-1023 Groundwater	22-Jan-14	1023	57	Round 7	--
IW02-57	GW-012214-IW02-57-1437 Groundwater	22-Jan-14	1437	57	Round 10	--
IW02-57	GW-012314-IW02-57-1346 Groundwater	23-Jan-14	1346	57	Round 11	--
IW02-57	GW-012414-IW02-57-0917 Groundwater	24-Jan-14	917	57	Round 12	--
IW02-57	GW-012714-IW02-57-0919 Groundwater	27-Jan-14	919	57	Round 13	--
IW02-67	GW-012014-IW02-67-1302 Groundwater	20-Jan-14	1302	67	Baseline	27-Jan-14
IW02-67	GW-012014-IW02-67-1343 Groundwater	20-Jan-14	1343	67	Round 1	27-Jan-14
IW02-67	GW-012014-IW02-67-1436 Groundwater	20-Jan-14	1436	67	Round 2	27-Jan-14
IW02-67	GW-012014-IW02-67-1533 Groundwater	20-Jan-14	1533	67	Round 3	27-Jan-14
IW02-67	GW-012014-IW02-67-1627 Groundwater	20-Jan-14	1627	67	Round 4	27-Jan-14
IW02-67	GW-012114-IW02-67-0816 Groundwater	21-Jan-14	816	67	Round 5	27-Jan-14
IW02-67	GW-012214-IW02-67-1021 Groundwater	22-Jan-14	1021	67	Round 6	27-Jan-14
IW02-67	GW-012214-IW02-67-1431 Groundwater	22-Jan-14	1431	67	Round 7	27-Jan-14
IW02-67	GW-012314-IW02-67-1350 Groundwater	23-Jan-14	1350	67	Round 8	27-Jan-14
IW02-67	GW-012414-IW02-67-0916 Groundwater	24-Jan-14	916	67	Round 9	27-Jan-14
IW02-67	GW-012714-IW02-67-0915 Groundwater	27-Jan-14	915	67	Round 10	27-Jan-14
Tracer Solution	GW-012014-IW02-TRACER-1230 Groundwater	20-Jan-14	1230	--	Tracer Solution	27-Jan-14

Notes:

-- - not applicable

ft bgs - feet below ground surface

IW - injection well

TABLE D-8
BOREHOLE DILUTION TEST SUMMARY OF RESULTS 2014
DuPont Pompton Lakes Works, Pompton Lakes, New Jersey

Location	Depth (ft bgs)	Data Type	Velocity (ft/day)	Calculated K (ft/day)
IW02-02	17	Field	0.044	6.6
IW02-03	27	Field	0.043	6.4
IW02-04	37	Field	0.044	6.6
IW02-05	47	Field	0.041	6.2
		Lab	0.047	7.1
IW02-06	57	Field	0.041	6.1
IW02-07	67	Field	0.025	3.7
		Lab	0.020	3.0

Notes:

ft bgs - feet below ground surface

ft/day - feet per day

IW - injection well

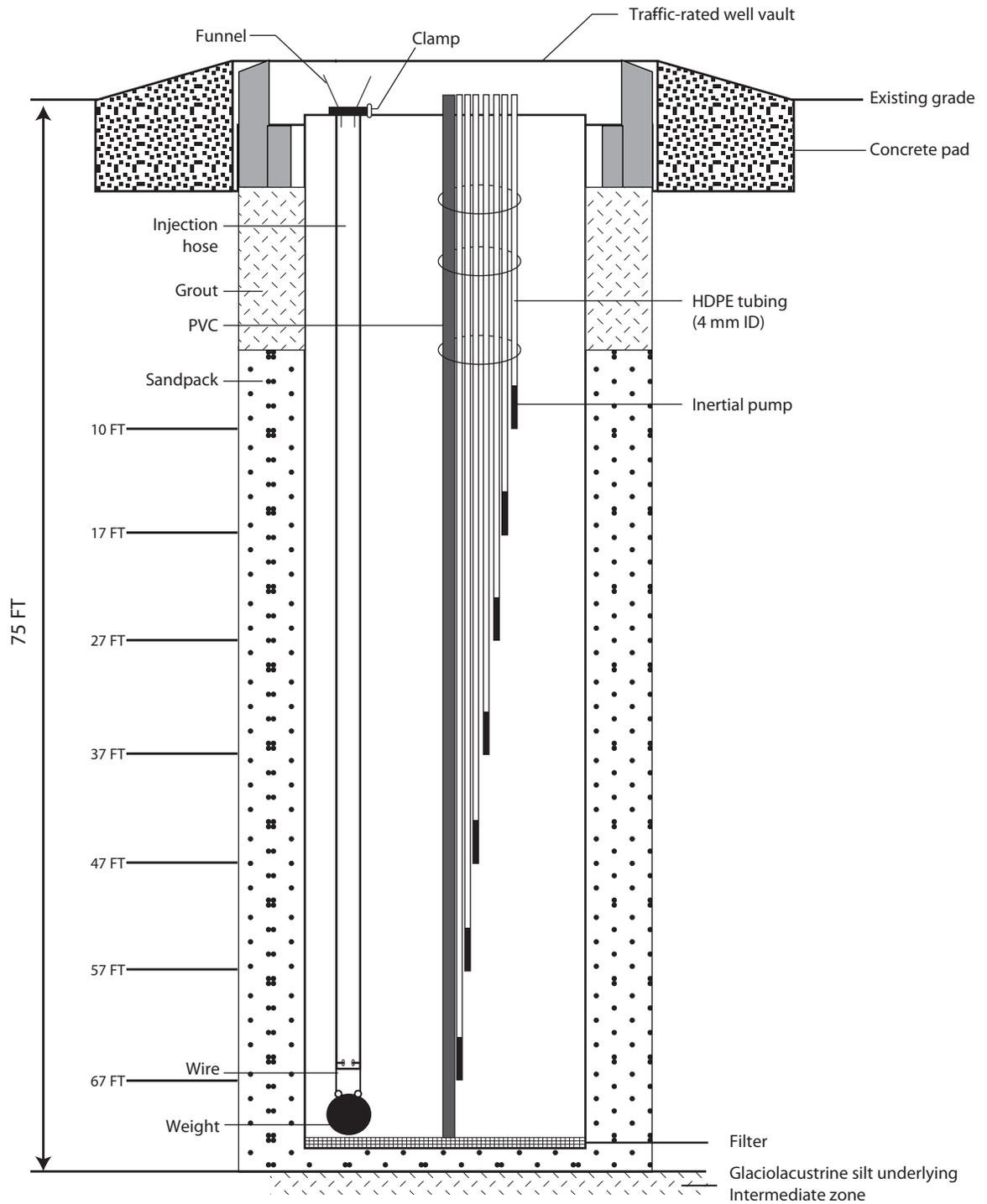
K - hydraulic conductivity

Assumptions:

Porosity = 0.25

Hydraulic gradient = 0.00167

r = 2 inches



Notes:

1. Borehole was drilled to the top of the glaciolacustrine silt that underlies the intermediate aquifer (approximately 75 ft bgs).
2. Borehole diameter is exaggerated to show detail
3. Well casing diameter is 4 inches (casing + the sand pack on either side is 12 inches total)

Not to scale

Borehole Dilution Assembly - IW02
 DuPont Pompton Lakes Works
 Pompton Lakes, New Jersey

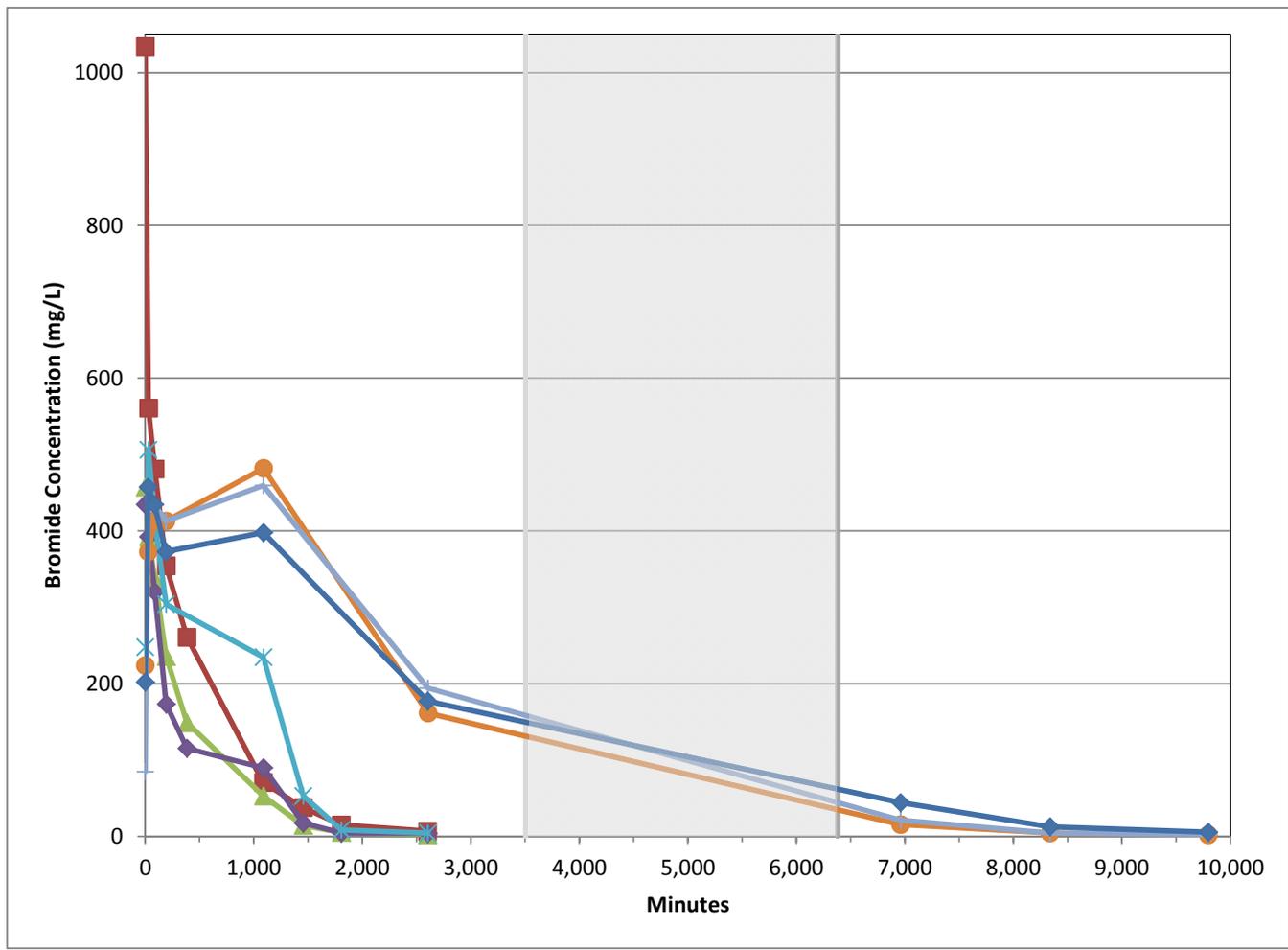
Geosyntec
 consultants

**Figure
 D-1**

Guelph

30-Aug-2011

FIGURES D-2 TO D-9
DEPLETION OF BROMIDE IN IW02 BOREHOLE DILUTION TEST PRE
EISB PILOT STUDY 2011



Legend

- IW02-01 ● IW02-05
- ▲ IW02-02 + IW02-06
- ◆ IW02-03 ◆ IW02-07
- ✦ IW02-04 Weekend, samples not collected

Bromide Concentration Trends at IW02, 2011

DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

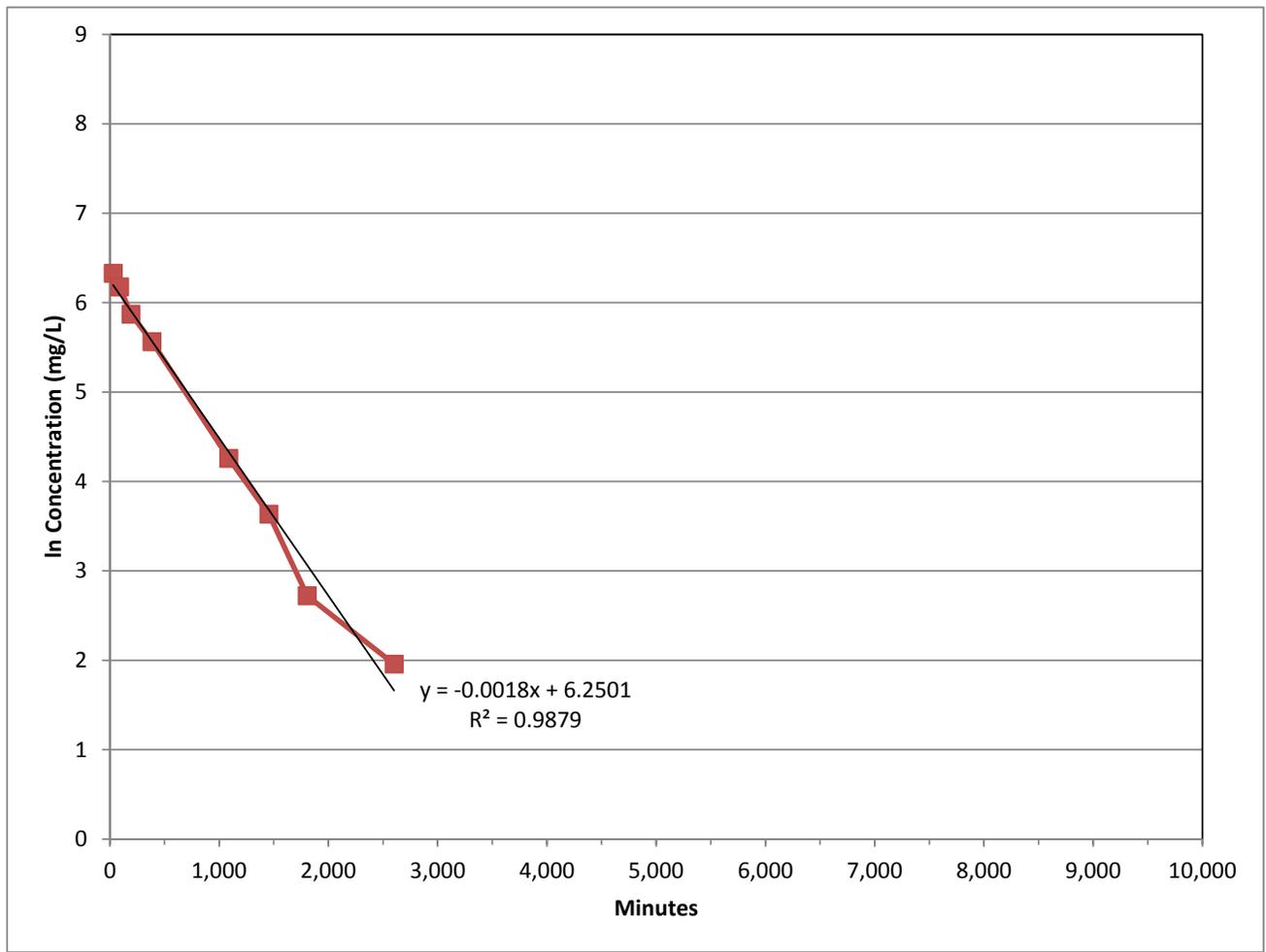


Figure

D-2

Guelph

April 2014



Legend

 IW02-01 Field Data

Depletion of Bromide IW02-01, 2011

DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

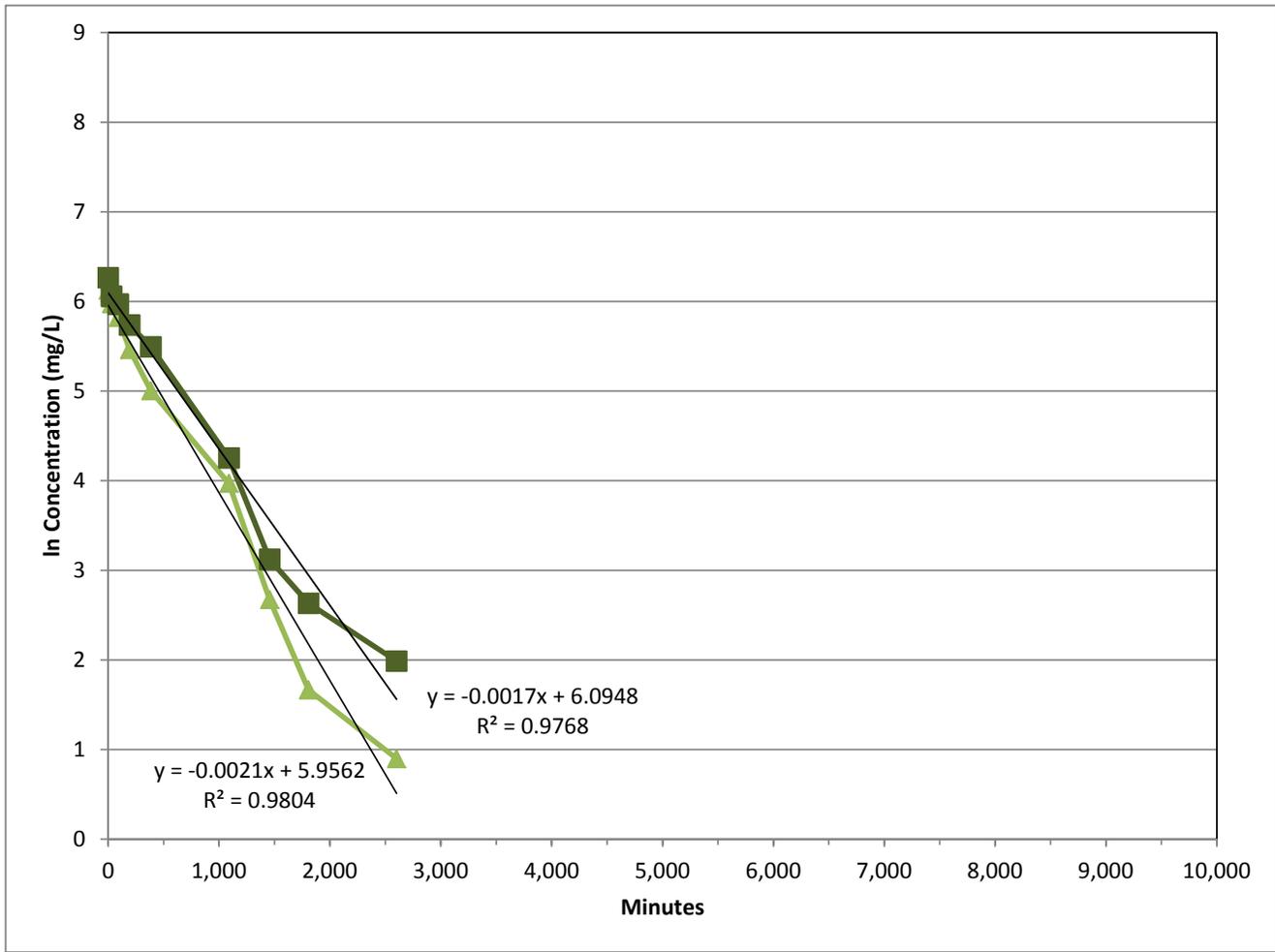
Geosyntec
consultants

Figure

D-3

Guelph

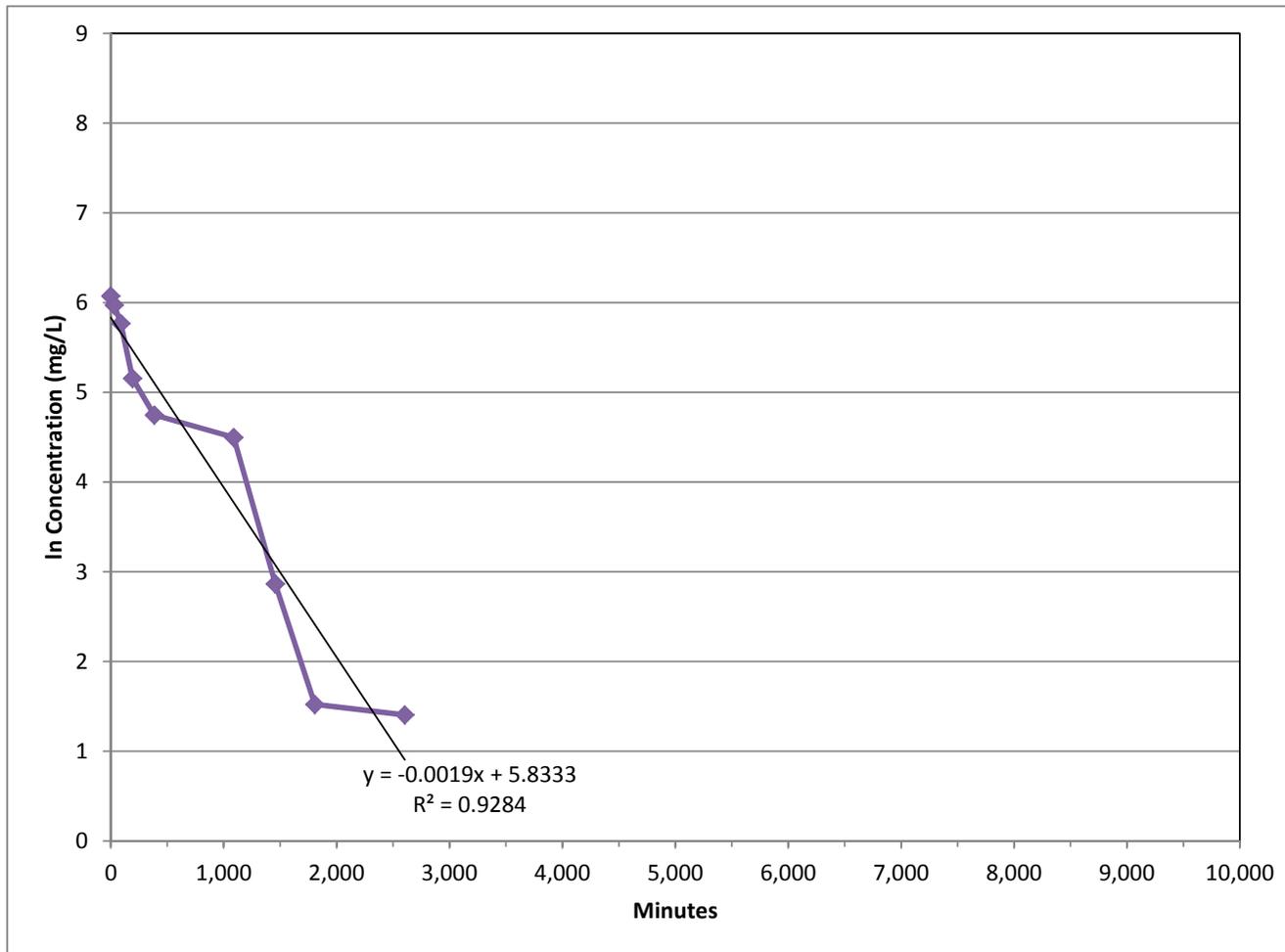
April 2014



Legend

- ▲ IW02-02 Field Data
- IW02-02 Lab Data

<p>Depletion of Bromide IW02-02, 2011 DuPont Pompton Lakes Works Pompton Lakes, New Jersey</p>	
	
Guelph	April 2014
<p>Figure D-4</p>	



Legend

—◆— IW02-03 Field Data

Depletion of Bromide IW02-03, 2011

DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

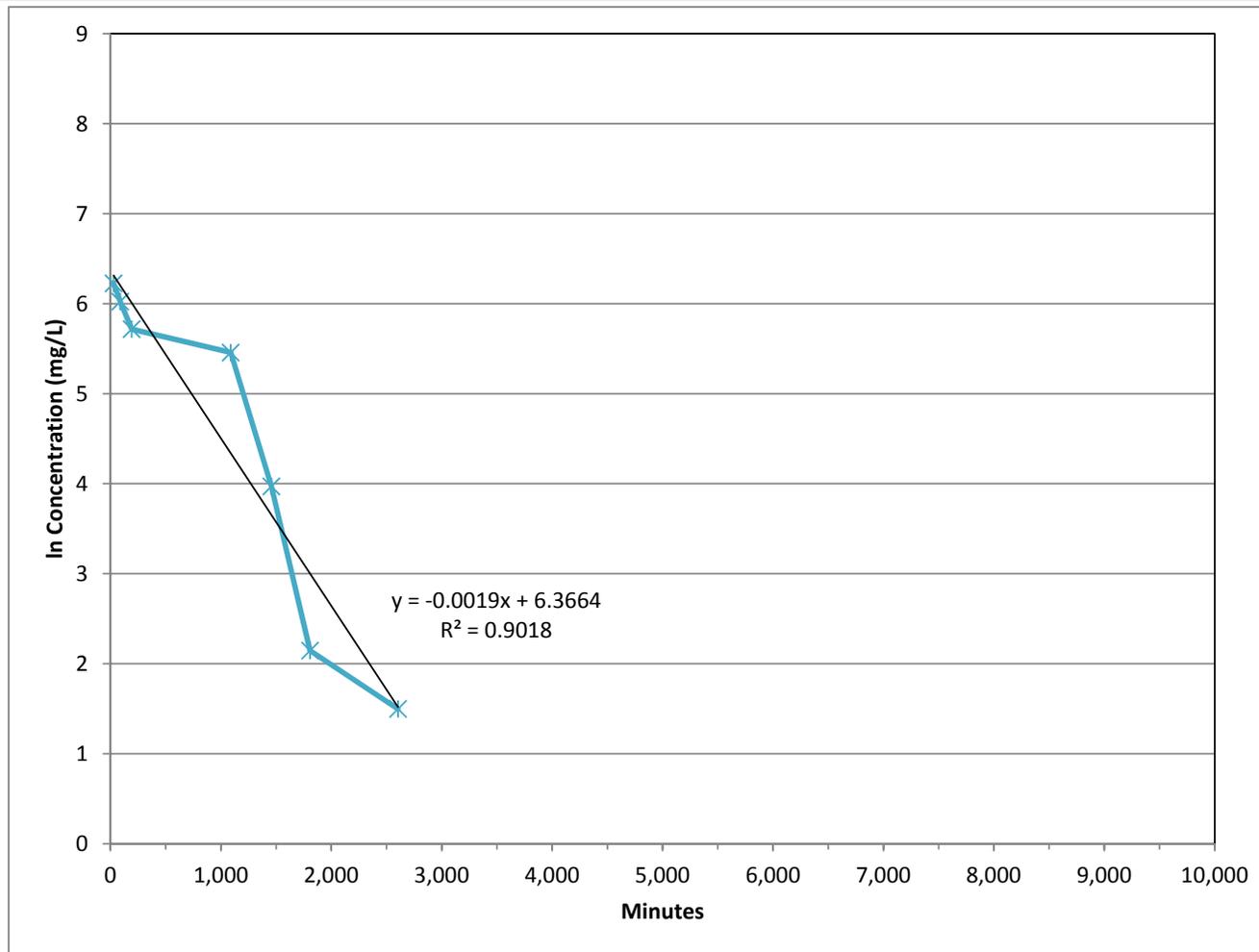
Geosyntec
consultants

Figure

D-5

Guelph

April 2014



Legend

 IW02-04 Field Data

Depletion of Bromide IW02-04, 2011

DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

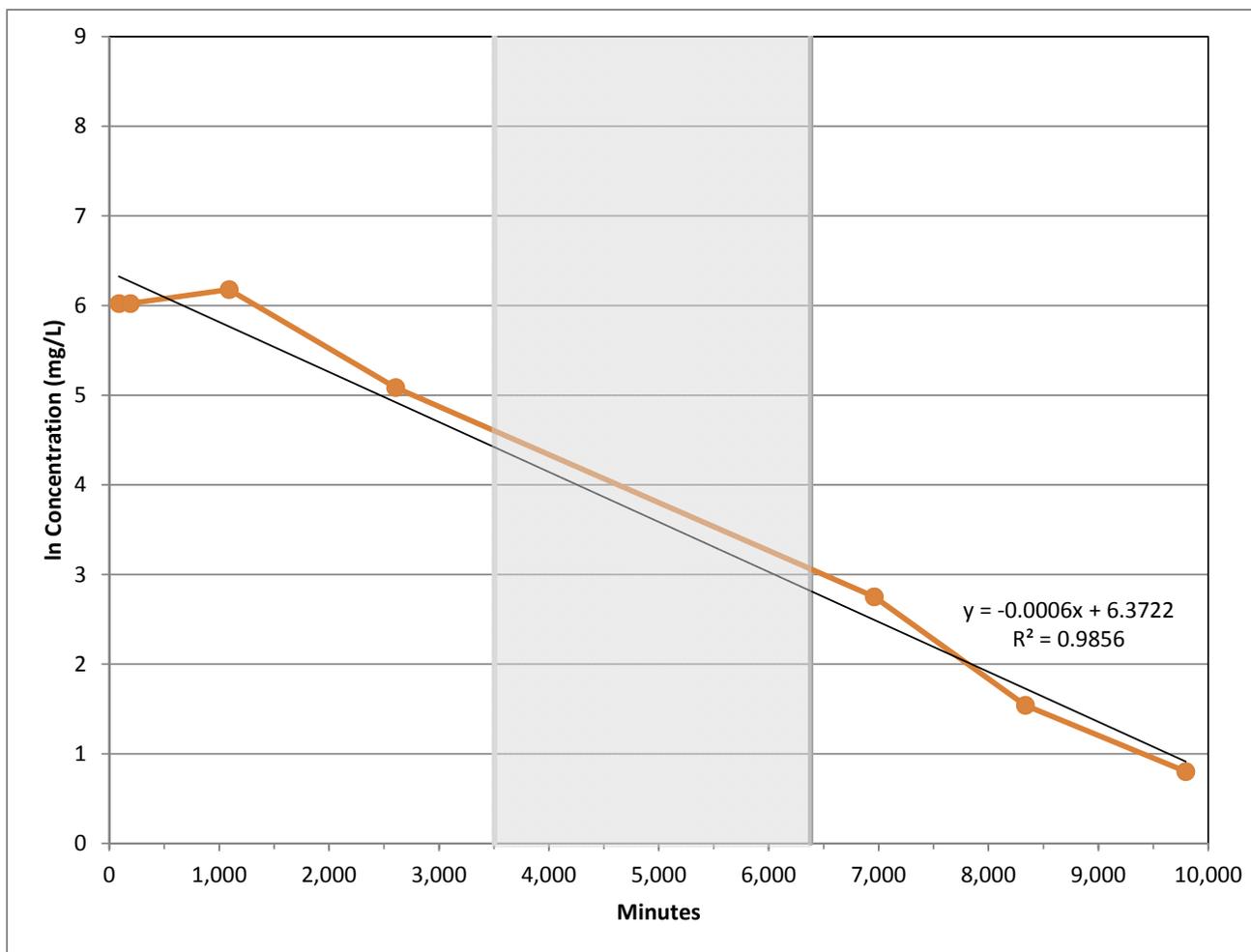
Geosyntec
consultants

Figure

D-6

Guelph

April 2014



Legend

-  IW02-05 Field Data
-  Weekend, samples not collected

Depletion of Bromide IW02-05, 2011

DuPont Pompton Lakes Works
 Pompton Lakes, New Jersey

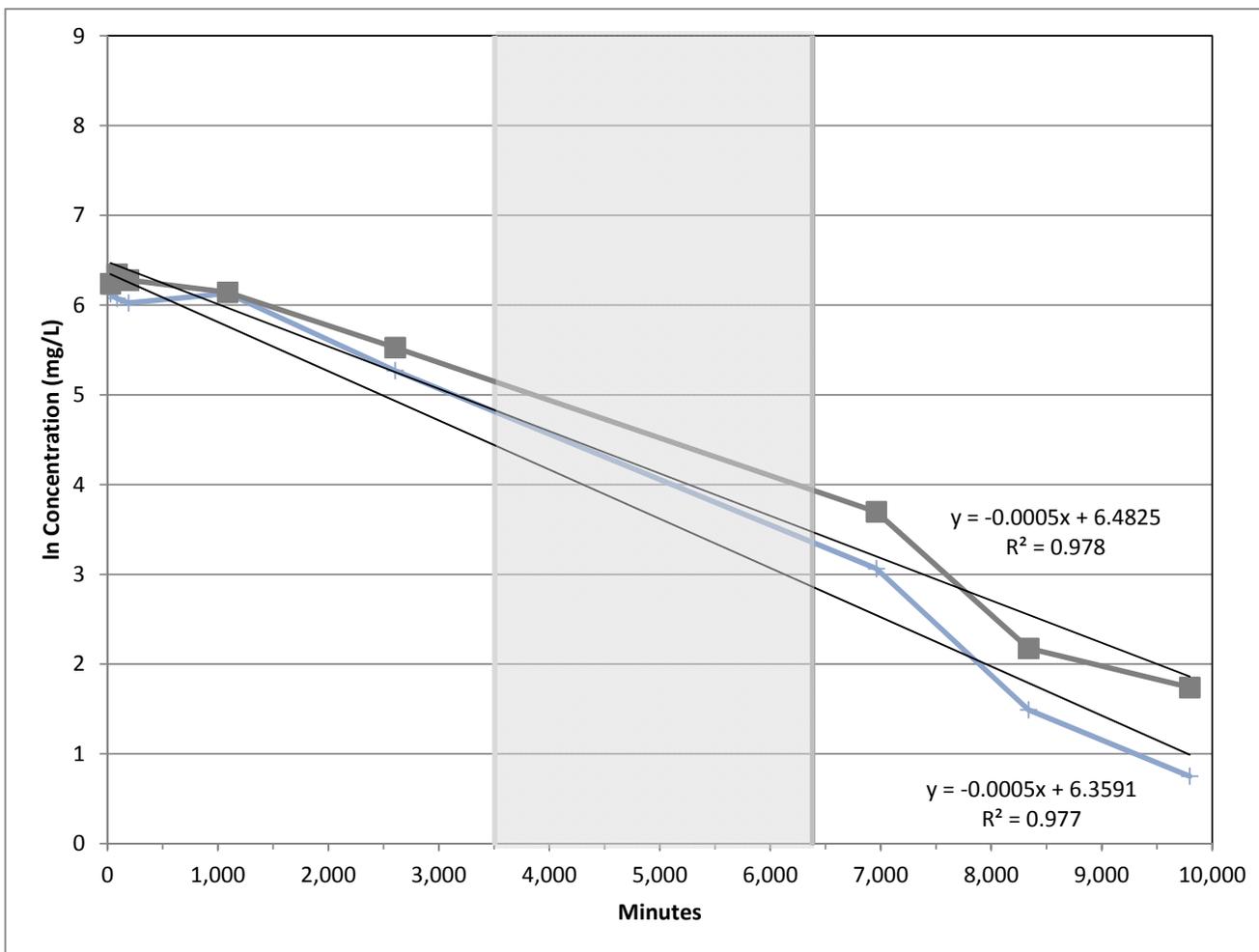


Figure

D-7

Guelph

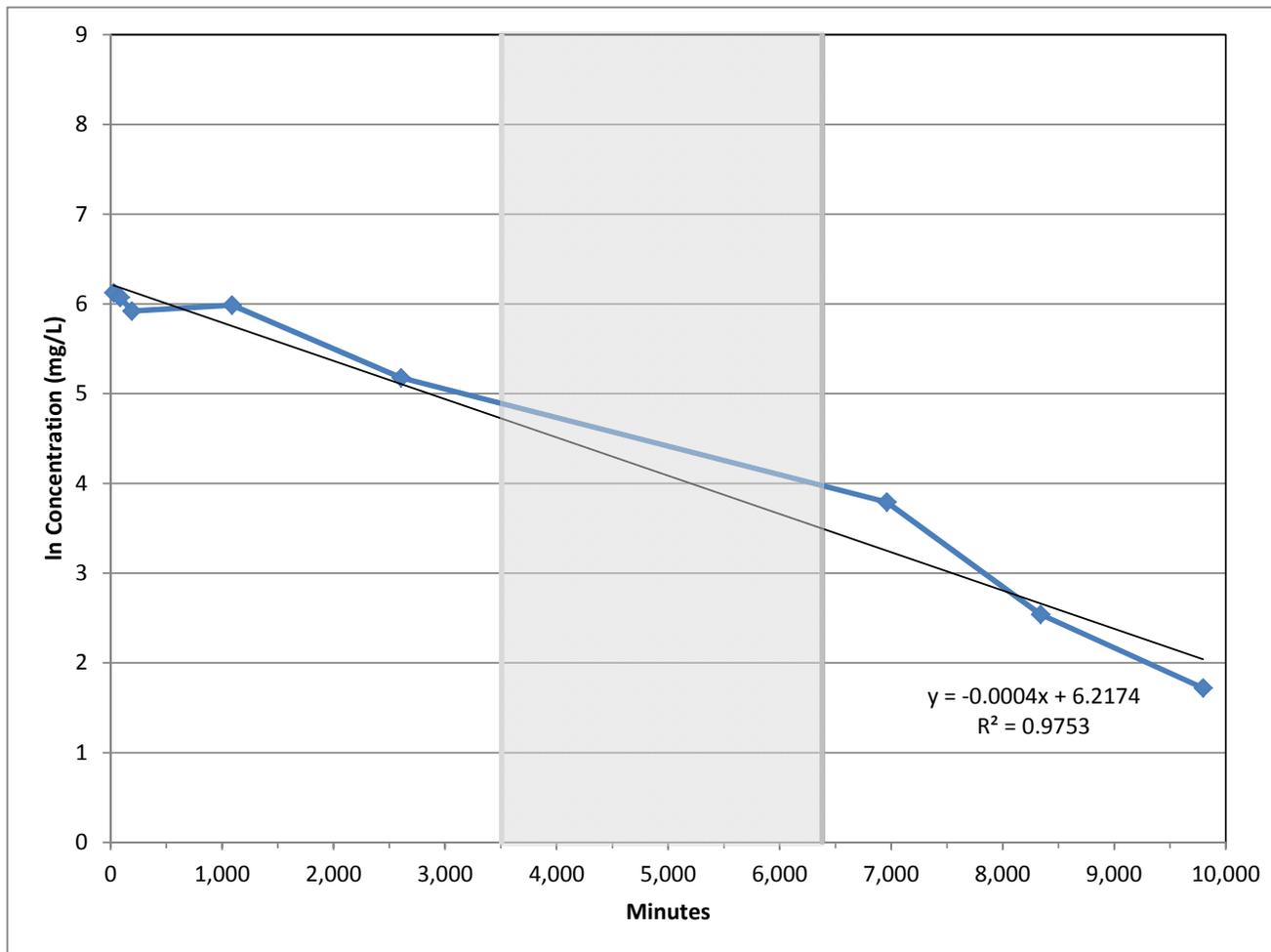
April 2014



Legend

- + IW02-06 Field Data
- IW02-06 Lab Data
- Weekend, samples not collected

<p>Depletion of Bromide IW02-06, 2011 DuPont Pompton Lakes Works Pompton Lakes, New Jersey</p>	
	
Guelph	April 2014
<p>Figure D-8</p>	



Legend

- ◆ IW02-07 Field Data
- Weekend, samples not collected

Depletion of Bromide IW02-07, 2011

DuPont Pompton Lakes Works
Pompton Lakes, New Jersey



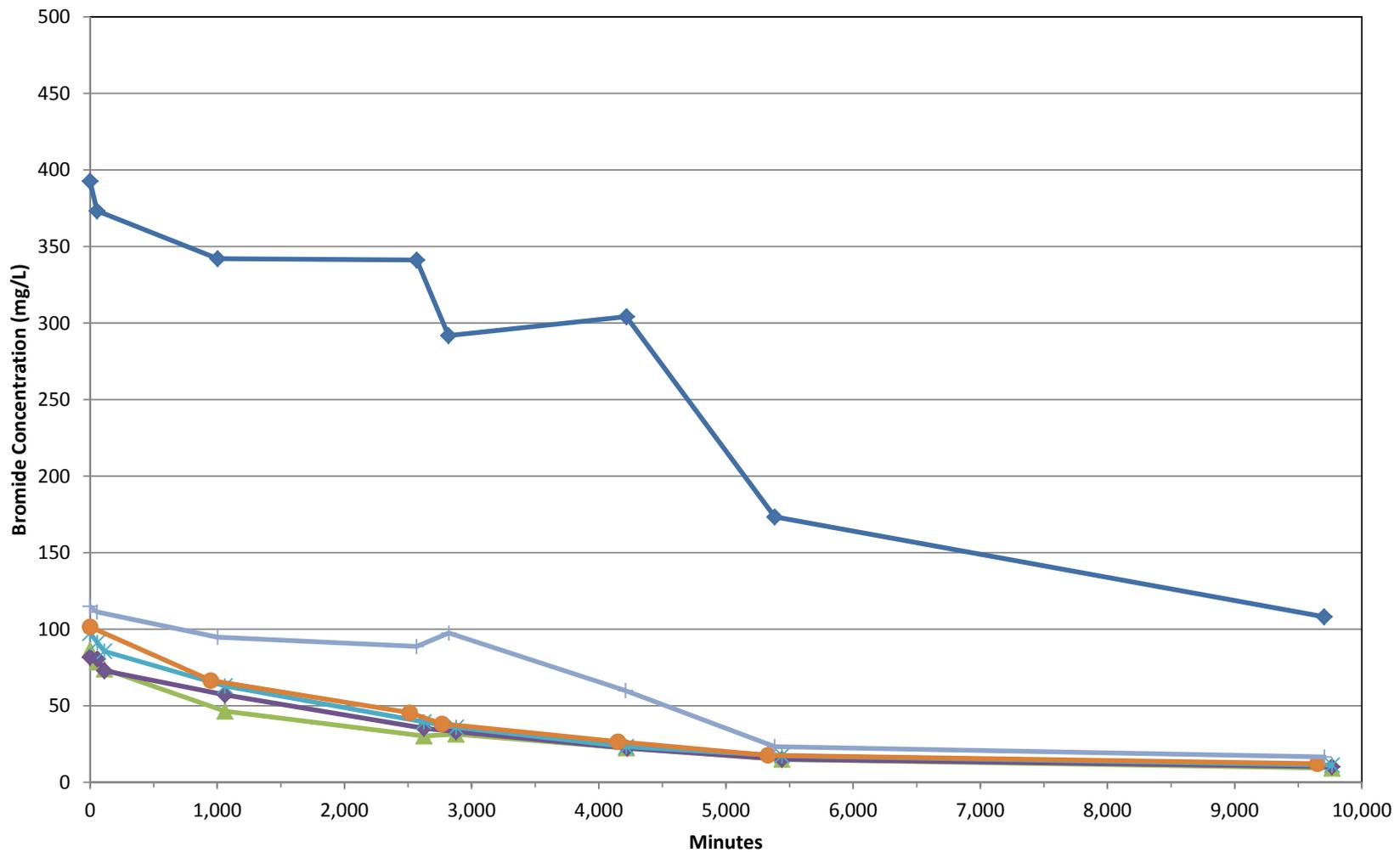
Figure

D-9

Guelph

April 2014

FIGURES D-10 TO D16
DEPLETION OF BROMIDE IN IW02 BOREHOLE DILUTION TEST AFTER
EISB PILOT STUDY, 2014



Legend

- ▲ IW02-02 Field Data
- ◆ IW02-03 Field Data
- ✦ IW02-04 Field Data
- IW02-05 Field Data
- + IW02-06 Field Data
- ◆ IW02-07 Field Data

Bromide Concentration Trends at IW02, 2014

DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

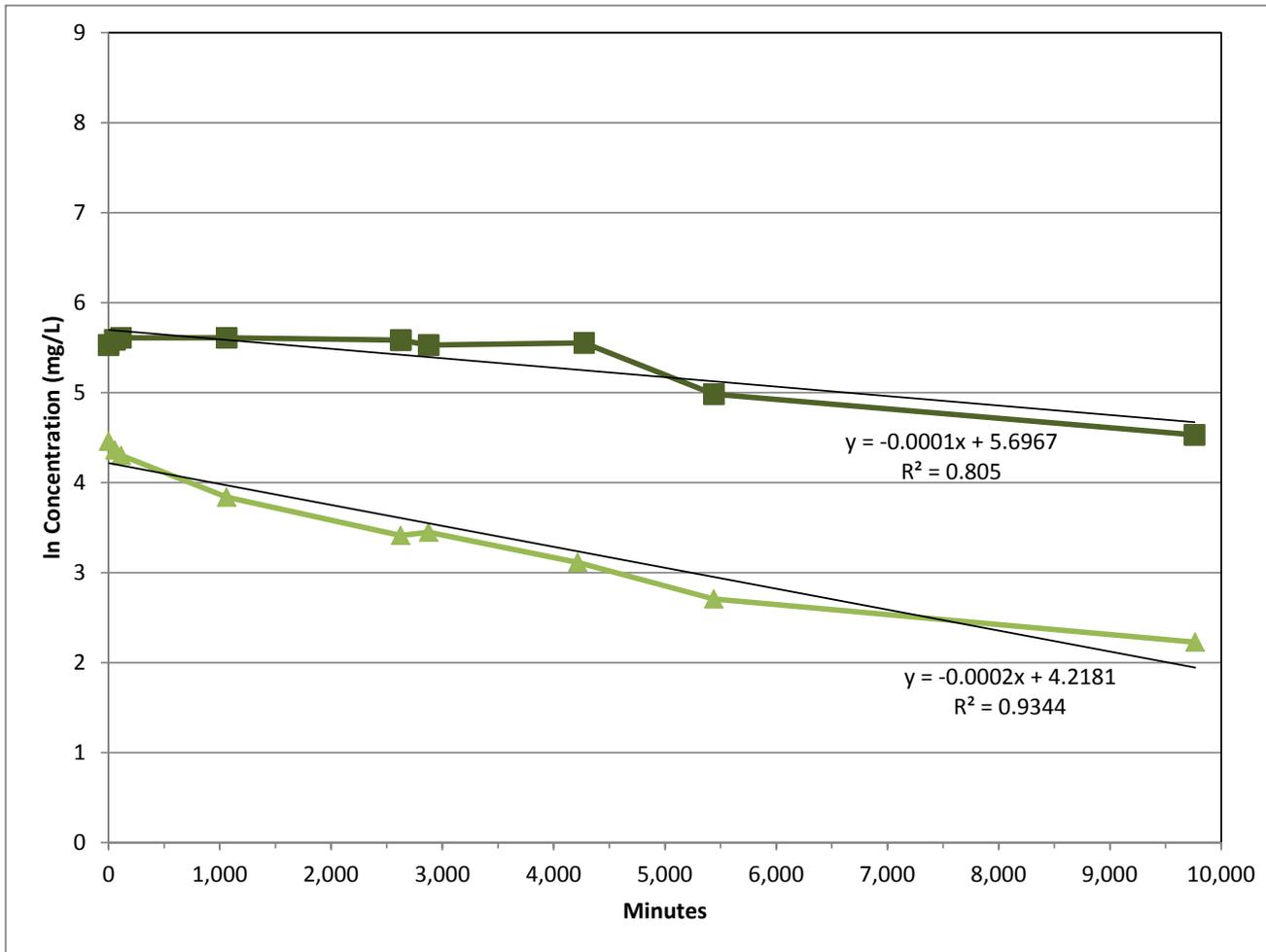


Figure

D-10

Guelph

April 2014



Legend

 IW02-02 Field Data

Depletion of Bromide IW02-02, 2014

DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

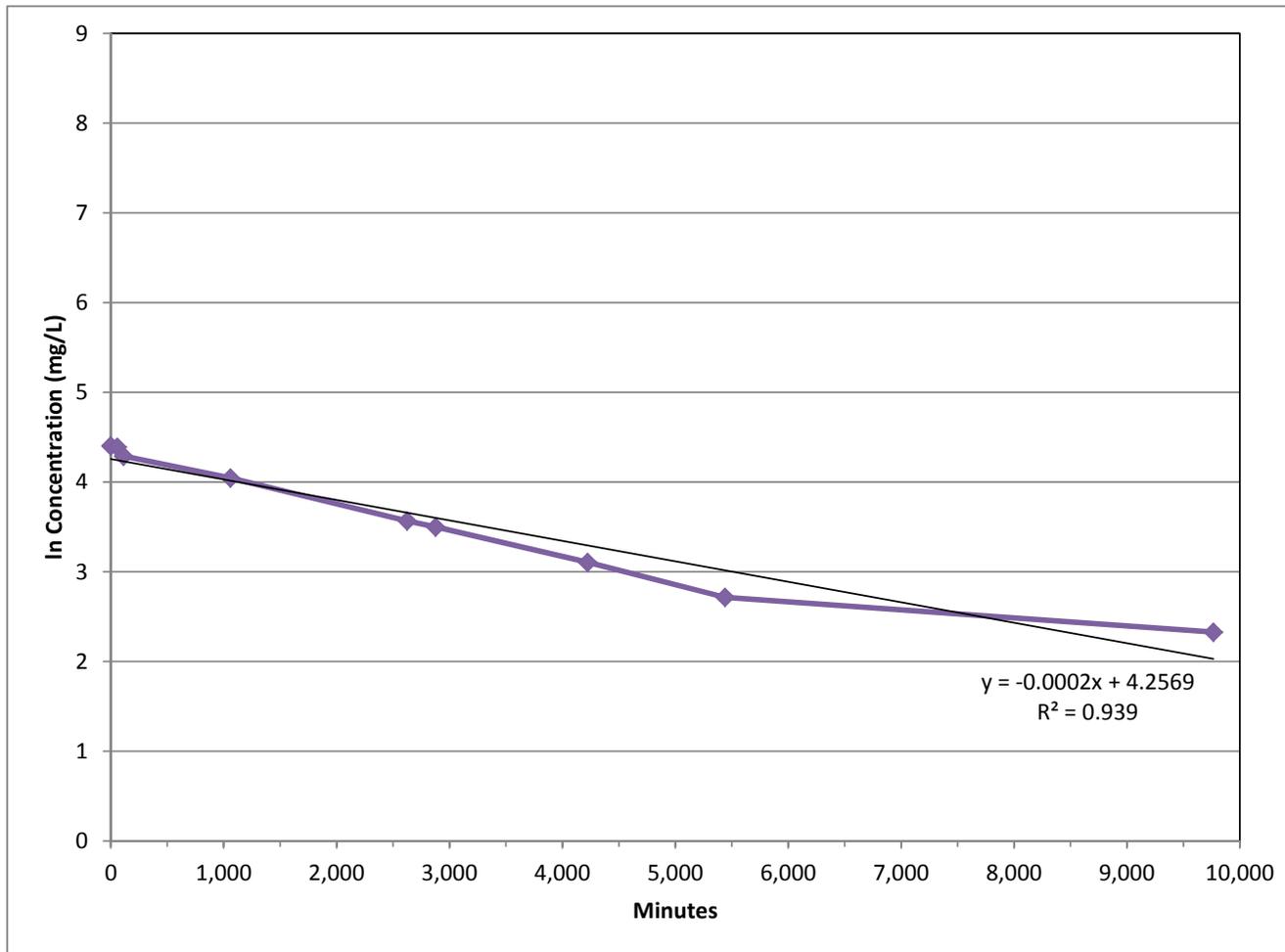


Figure

D-11

Guelph

April 2014



Legend

—◆— IW02-03 Field Data

Depletion of Bromide IW02-03, 2014

DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

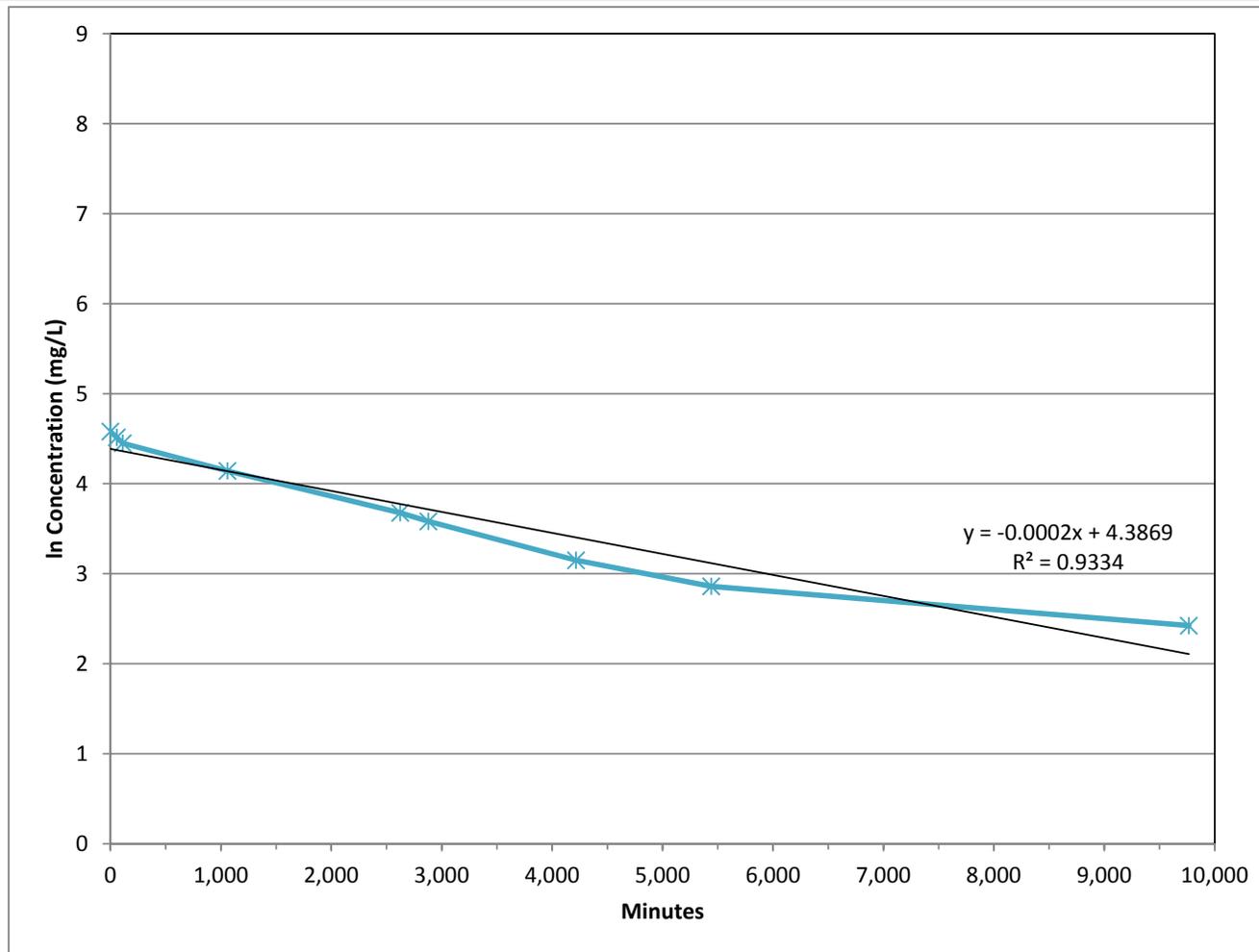
Geosyntec
consultants

Figure

D-12

Guelph

April 2014



Legend

 IW02-04 Field Data

Depletion of Bromide IW02-04, 2014

DuPont Pompton Lakes Works
 Pompton Lakes, New Jersey

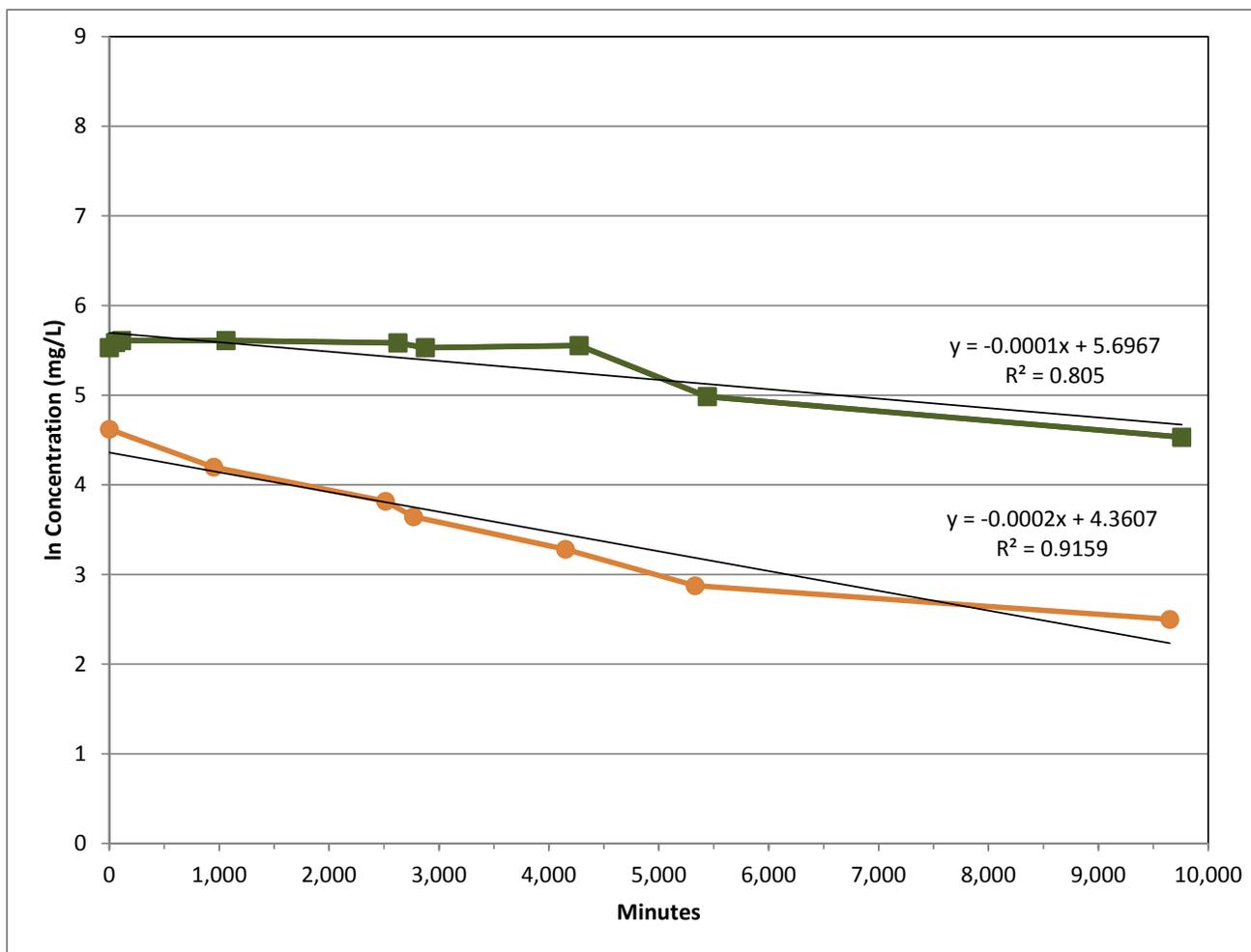
Geosyntec
 consultants

Figure

D-13

Guelph

April 2014



Legend

- IW02-05 Field Data
- IW02-05 Lab Data

Depletion of Bromide IW02-05, 2014

DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

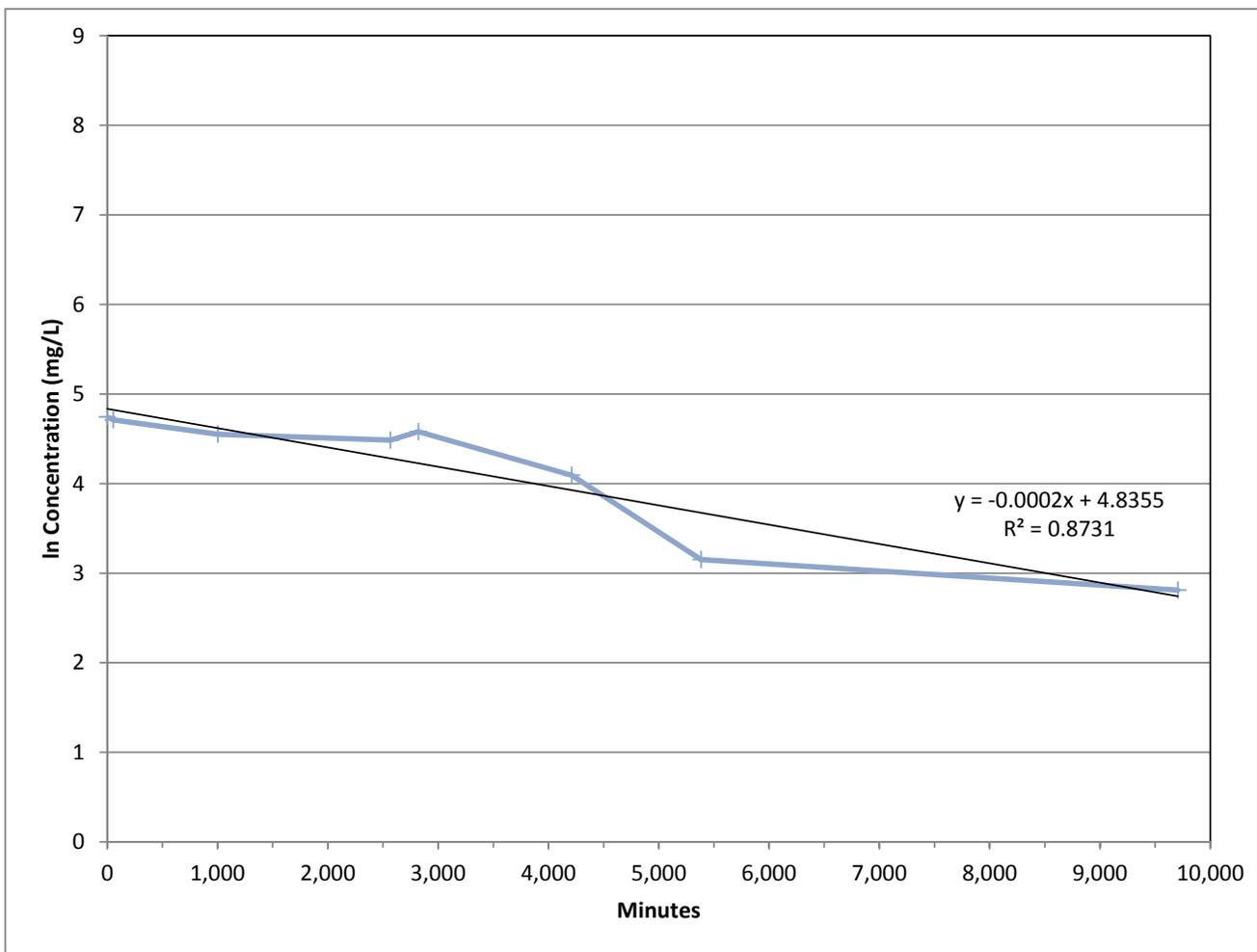


Figure

D-14

Guelph

April 2014



Legend

—+— IW02-06 Field Data

Depletion of Bromide IW02-06, 2014

DuPont Pompton Lakes Works
Pompton Lakes, New Jersey

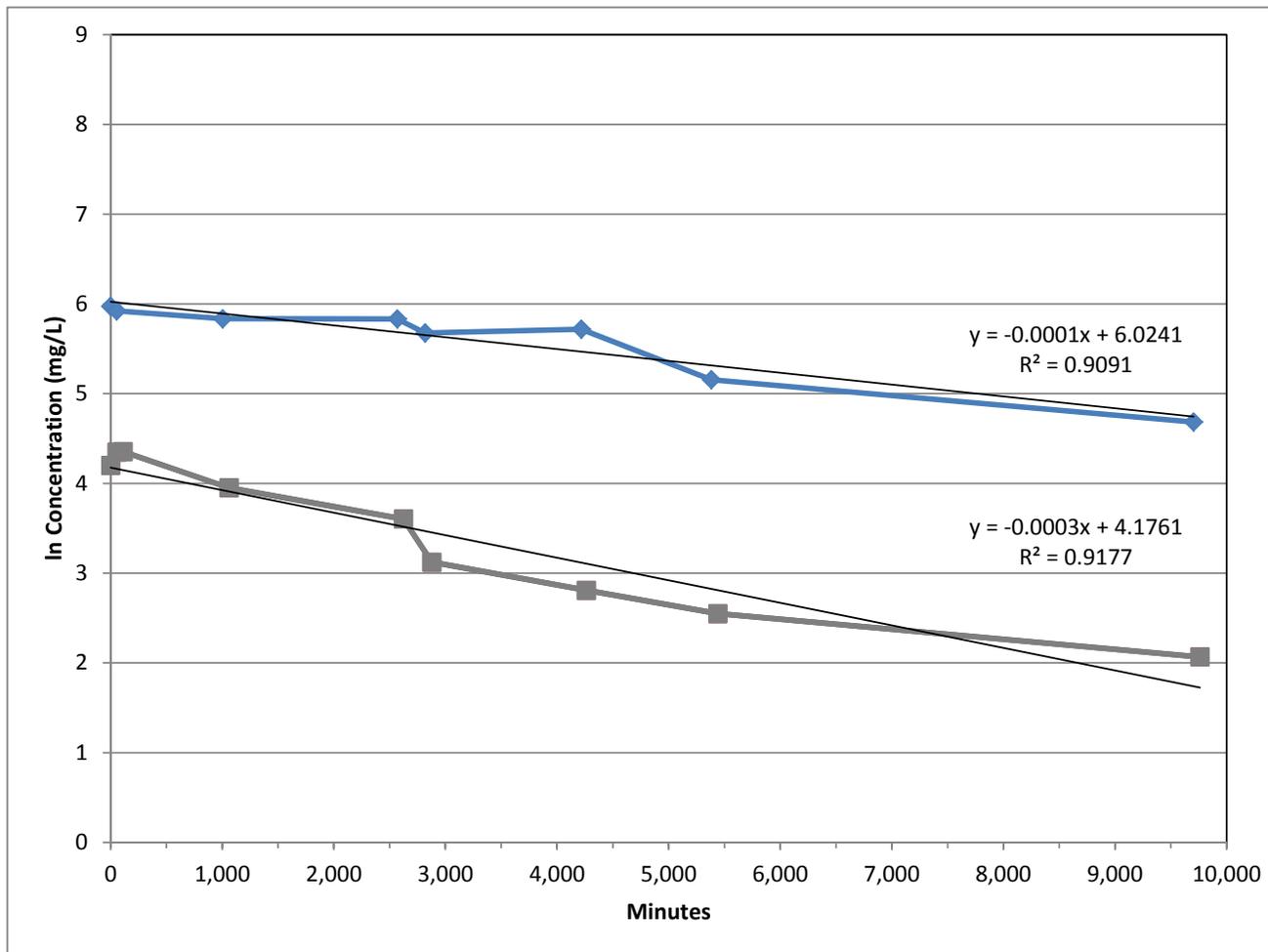
Geosyntec
consultants

Figure

D-15

Guelph

April 2014



Legend

- ◆ IW02-07 Field Data
- IW02-07 Lab Data

Depletion of Bromide IW02-07, 2014

DuPont Pompton Lakes Works
Pompton Lakes, New Jersey



Figure

D-16

Guelph

April 2014

APPENDIX E
SUMMARY OF MODELING

APPENDIX E

MODELING SUMMARY

E.1 MODELING FOR DESIGN OF PILOT TEST

Groundwater modeling was conducted to aid in the design and operation of the pilot test. A MODFLOW model of the local study area was developed using data from the Hydraulic Testing Evaluation Summary Report for Well 128 Field Pilot Study/IRM (Geosyntec, 2011) and Site-wide hydraulic characterization. The model domain covered an area of 200 feet by 100 feet and was centered around the study area. The model grid was uniform 2 feet in the horizontal direction and comprised 6 layers, each 20 feet in size, with a vertical dimension of 120 feet. The effective porosity used in the model was 0.25. Horizontal and vertical hydraulic conductivity values in each layer were as follows:

- Layer 1 (top): 70 feet/day
- Layer 2: 65 feet/day
- Layer 3: 45 feet/day (injection and extraction wells are screened in this layer)
- Layer 4: 15 feet/day
- Layer 5: 0.65 feet/day
- Layer 6: 0.35 feet/day

Upgradient and downgradient constant heads were set to simulate the observed hydraulic gradient of 0.002 feet/feet under current conditions, as shown in Figure E-1 below. The modeled head difference, for a 3 gpm extraction rate, results in 0.94 feet of drawdown at EW01 and 0.96 feet of mounding at IW02. Under the proposed flow conditions, the horizontal hydraulic gradient is 0.038, based on a distance between the extraction and injection wells of 49.5 feet. Assuming a horizontal hydraulic conductivity (K_h) value of 45 feet/day in the intermediate aquifer and an effective porosity value of 0.25, the average linear velocity is 6.8 feet/day (which is at the upper end of the groundwater flow velocities determined by the particle track modeling). The travel time, based on the average linear velocity estimate from IW02 to EW01 is 7.3 days. Based on a 21.5-day residence time, the pore volume (assumed here to be equivalent to the flow path between the injection and the extraction wells) will be flushed approximately 17 times over the 4 month (120-day) pumping phase.

A pore volume flush estimate was also derived to provide additional justification of the proposed flow rate. Modeling results indicate that, under a 3 gpm pumping rate, the flow domain will be approximately 10 by 50 by 25 feet (width, length, depth). Although the flow domain is, of course, not a rectangle, this calculation is helpful in confirming that the proposed flow rate is appropriate. This flow domain is equivalent to a pore volume of 23,377 gallons. At 3 gpm, a single pore volume would be flushed in approximately 5.4 days, which implies that 22 pore volumes would be flushed during the 4-month (120 day) pumping phase.

Figure E-1 and E-2 below show the model output with Site conditions under current and pilot pumping (3 gpm) conditions.

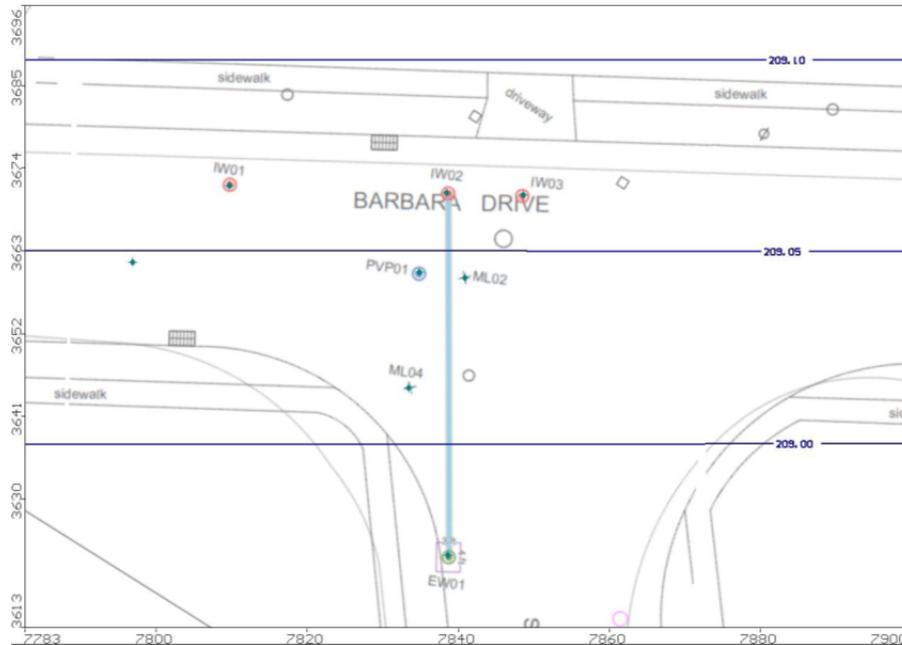


Figure E-1 – Model output showing equipotential lines (No Extraction or Injection).

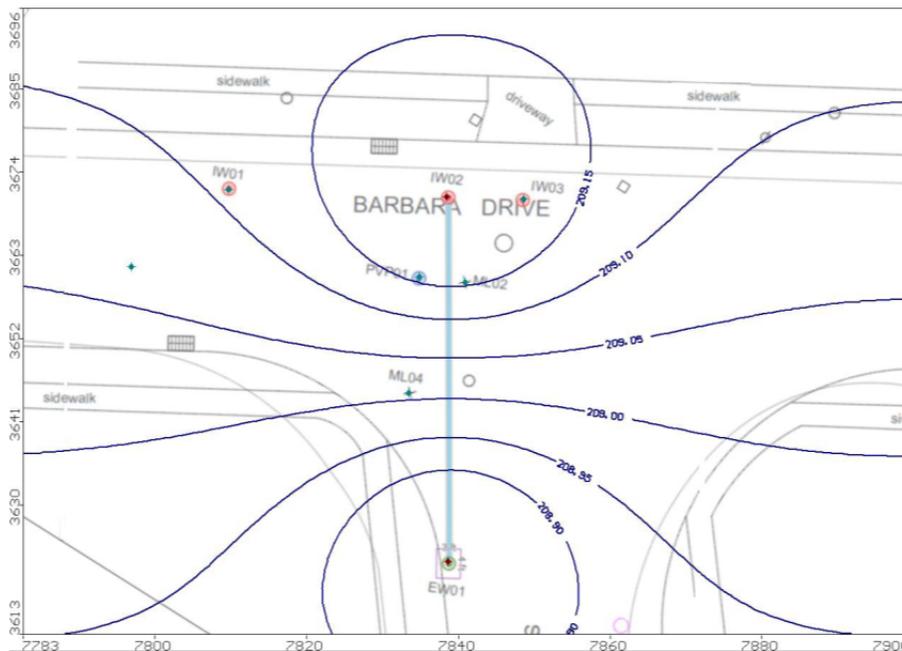


Figure E-2 – Model output showing equipotential lines (Extraction from EW01 at 3 gpm and Injection to IW02 at 3 gpm).

E.2 MODEL UPDATE DURING PILOT TEST

The delayed arrival of bromide tracer at the extraction well prompted an update to the model, which was completed in September 2013 using data collected during baseline monitoring as well as during the operation of the pilot test.

Baseline data from June 24, 2013 showed that the hydraulic gradient prior to system startup was reversed and groundwater flow was primarily North towards the site (Figure E-3). Additionally, data collected during the pilot indicated that the groundwater flow velocity was approximately 5 feet/day instead of the 45 feet/day initially estimated (Figure E-4).

Several model simulations were run at different flow rates (3, 5, 7.5 and 10 gpm) to determine if increasing the pump rate could help increase the hydraulic gradient between EW01 and IW02. A pumping rate between 5 and 7.5 gpm was determined to be necessary to overcome the flat hydraulic gradient conditions observed during the operation of the pilot test. Due to the fouling conditions and excessive drawdown at EW01 the pumping rate was turned down to 2 gpm to stop the system from shutting down due to low water levels in EW01. Increasing the flow rate to 5 or even 7.5 gpm was not possible.

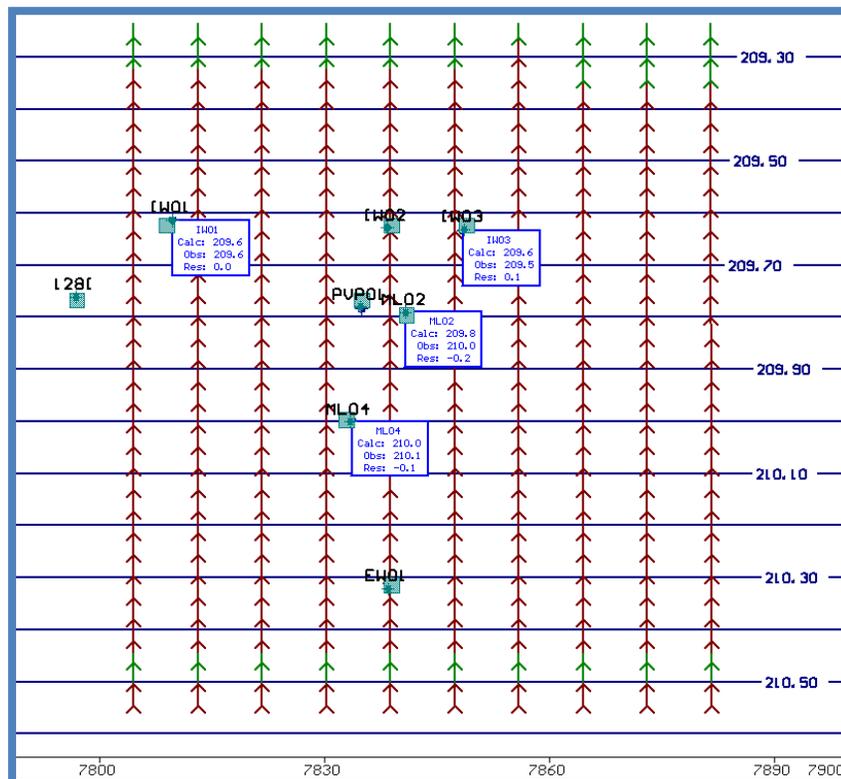


Figure E-3 – Model update using data from the baseline sampling event prior to the pilot test startup.

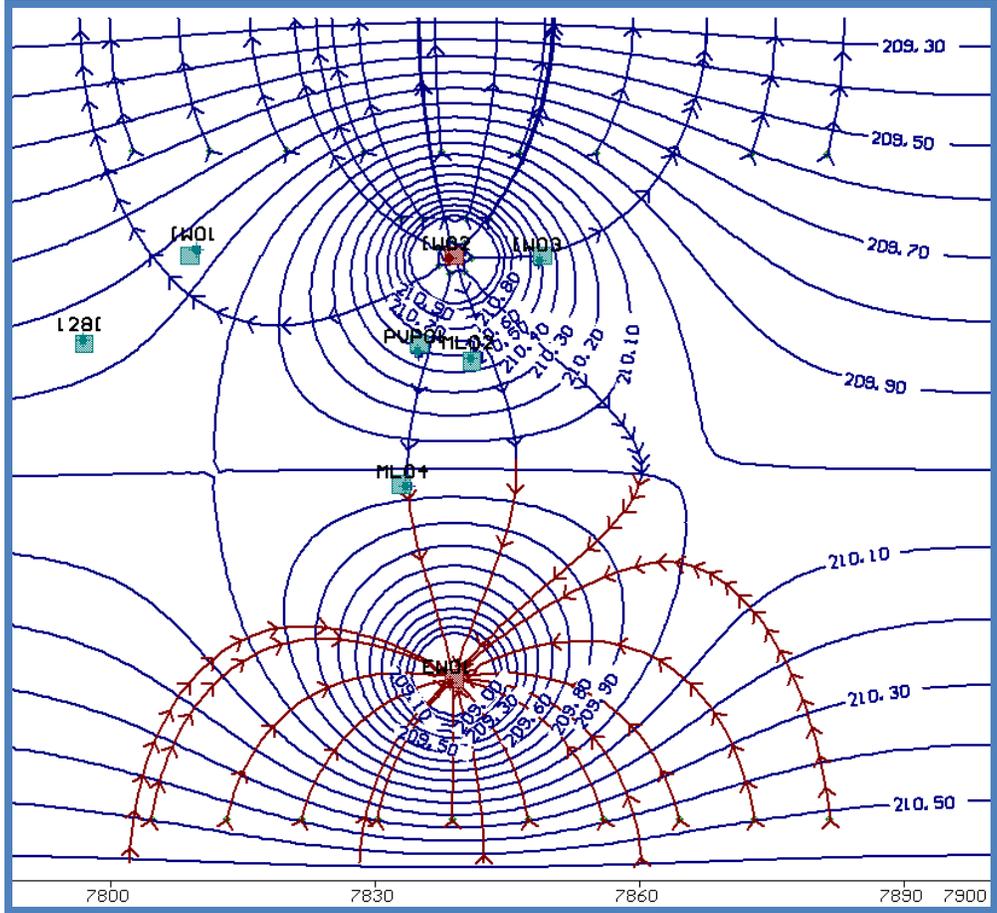


Figure E-4 – Model update showing particle tracking lines, flow primarily to the North with a hydraulic conductivity of 5 feet/day.

APPENDIX F
ANALYTICAL LABORATORY DATA

**ADQM DATA REVIEW
NARRATIVE**

Site POM – Pompton Lakes Works

Project EISB Monitoring 2013

Project Reviewer Candia Carle

Sampling Date May 1, 2, 14 – 17 , June 4, 6, 14, 2013, July 17, 31 and August 1, 2, 6, 14, 15, 27, 28, 29 and September 12, 13, 24, 25 and November 18, 19 and December 18, 19, and 23, 2013

Analytical Protocol

<u>Laboratory</u>	<u>Analytical Method</u>	<u>Parameter(s)</u>
Lancaster	EPA 300	Bromide
Lancaster	EPA 300	Chloride
Lancaster	RSK-175	Ethane, Ethene, Methane
Lancaster	SW 846 6010B	Iron
Lancaster	EPA 300	Sulfate
Lancaster	SM 4500-S2 D-2000	Sulfide
Lancaster	SW 846 9060A	TOC
Lancaster	8260B 25 mL purge	Volatile organics
SiREM		Gene-Trac® VC, Vinyl Chloride Reductase (vcrA) Assay
Test America Burlington	TO-15 NJ LL SUMMA	Volatile organics

Sample Receipt

May, 2013

- Assay samples were received at SiREM laboratories.
- All remaining samples were received in satisfactory condition and within EPA temperature guidelines at Lancaster Labs on May 3, 15, and 17, 2013.
- The labels did not always match the chain of custody. The lab logged per the chain for samples received on May 3 and 15, and per the label for samples received May 17, 2013.
- The number of containers received did not always match the number of containers recorded on the chain.
- Line-outs on the chains were not both initialed and dated.
- The sample for TOC at EW01(UPPER) collected on May 16, 2013 was not recorded on the chain. This sample was logged on June 5, 2013.
- Bromide was added to the analyses request after the samples were initially logged and reported. Revised reports were issued to include Bromide.

June, 2013

- Assay samples were received at SiREM laboratories.
- Air samples were received at TAL Burlington on June 6, 2013. Samples arrived in good condition.
- All remaining samples were received in satisfactory condition and within EPA temperature guidelines at Lancaster Labs on June 7, and 15, 2013.
- The number of containers received did not always match the number of containers recorded on the chain.
- Line-outs on the chains were not both initialed and dated.

July, 2013

- All samples were received in satisfactory condition and within EPA temperature guidelines at Lancaster Labs on July 18, 2013.
- The labels did not always match the chain of custody. The lab logged per the chain.
- The number of containers received did not always match the number of containers recorded on the chain.
- Line-outs on the chains were not both initialed and dated.
- The field duplicate identifier in the field sample ID (-D) was not included in the ID on the chain. The field duplicate note was written in the comment field on the chain. The lab logged the field sample ID as GW-071713-ML02-4-DUP. This field sample ID was changed in EIM to GW-071713-ML02-4-D.

August, 2013

- Air samples were received at TAL Burlington on August 7, 2013. Samples arrived in good condition. Air samples received at TAL Burlington on August 31, 2013 had labels that did not match the chain. Samples were logged per the chain.
- All remaining samples were received in satisfactory condition and within EPA temperature guidelines at Lancaster Labs on August 2, 16 and 30, 2013.
- The labels did not always match the chain of custody. The lab logged per the chain.
- The number of containers received did not always match the number of containers recorded on the chain.
- ML02-7, collected on 8/2/2013 was incorrectly logged in and reported as GW-080113-ML02-7. The ID was corrected and the report revised to reflect the ID as it was recorded on the chain: GW-080213-ML02-7.
- Three trip blanks with the same field sample ID were submitted with the samples received at the lab on August 30, 2013. An 'a', 'b' and 'c' were added to the field sample IDs to make them unique.
- Volatile vials marked for ML04-4 collected on August 27, 2013 were received at the lab but not recorded on the chain. The lab logged and reported for Volatile Organics and ethane, ethene and methane.

September, 2013

- Air samples were received at TAL Burlington on September 26, 2013. The labels and chains recorded a flow controller different than what was received.
- All remaining samples were received in satisfactory condition and within EPA temperature guidelines at Lancaster Labs on September 26, 2013. The samples received on September 13, 2013 were received with an averaged elevated cooler temperature of 9.5°. This is not expected to impact the data and the samples were analyzed and reported without qualification.
- The labels did not always match the chain of custody. The lab logged per the chain.
- The number of containers received did not always match the number of containers recorded on the chain.
- Gases vials labeled for ML02-5 were submitted to the lab with the labels line-out. The samples were not logged and not reported.

November, 2013

- Air samples were received at TAL Burlington on November 21, 2013. The labels did not match the chains; times were not recorded on the labels. Samples were logged per the chain.
- All remaining samples were received in satisfactory condition and within EPA temperature guidelines at Lancaster Labs on November 21, 2013.
- Samples collected at ML02-2 on November 19, 2013 were erroneously recorded on the chain with a field sample ID with a collection date of 111813. The lab corrected the log-in to reflect the actual collection date and the field sample ID was reported as GW-111913-ML02-2. The chain was not corrected.
- Three trip blanks were submitted. All were associated with the samples in the laboratory lot for the data review process.

December, 2013

- Air samples were received at TAL Burlington on December 24, 2013. Samples arrived in good condition.
- All remaining samples were received in satisfactory condition and within EPA temperature guidelines at Lancaster Labs on December 20, 2013.
- The sample collection date was not recorded for all samples on the chains.

Sample Information

May, 2013

- Field blanks were evaluated on a lot basis, not a sample collection date basis except where multiple field blanks were submitted and logged in one lot.
- There was no field bank for TOC for samples collected on May 17, 2013.

Data Review

The electronic data submitted for this project was reviewed via the automated DuPont Data Review (DDR) process via the EIM Data Validation Module (DVM). Overall the data is acceptable for use without qualification, except as noted below:

- Some of the analytical results have been qualified in the database. See the DuPont Data Review (DDR) Narrative Report for which samples were qualified, the specific reasons for qualification, and potential bias in reported results.

Attachments

The DDR Narrative report, SiREM lab reports, and the summary level TAL Burlington and Lancaster Labs reports are attached. The full deliverables provided by the labs, due to the large file size, are not attached but are stored on the server in the project folder.

DuPont In-House Review (DDR)

The DDR is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software (Locus EIM™ database Data Validation Module (DVM)) and manual reviewer evaluations. The data is evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike(MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample(LCS)/control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- RPD between field duplicate sample pairs
- RPD between laboratory replicates for inorganic analyses
- Difference / percent difference between total and dissolved sample pairs.

The DDR applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

Please refer to the laboratory report for a description of the lab qualifiers.

DDR Narrative Report

Site: Pompton Lakes Works

Sampling Program: EISB Monitoring Program 2013

Validation Options: LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the data rejection level. The reported non-detect result is unusable.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-051413-IW01 (LOWER)	05/14/2013	7057849	SULFIDE	0.054	MG/L	MDL	0.054	0.16	R	4500-S2 D-2000		
GW-051413-ML02-6	05/14/2013	7057846	SULFIDE	0.054	MG/L	MDL	0.054	0.16	R	4500-S2 D-2000		
GW-051413-IW01 (UPPER)	05/14/2013	7057847	SULFIDE	0.054	MG/L	MDL	0.054	0.16	R	4500-S2 D-2000		
GW-051413-ML02-1	05/14/2013	7057845	SULFIDE	0.054	MG/L	MDL	0.054	0.16	R	4500-S2 D-2000		

Validation Reason Code: Contamination detected in Field Blank(s). Sample result does not differ significantly from the analyte concentration detected in the associated field blank(s).

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-111913-EW01-LOWER	11/19/2013	7287936	IRON	1.90	MG/L	MDL	0.0430	0.200	B	6010B		3010A
GW-111913-ML04-2	11/19/2013	7287935	IRON	0.910	MG/L	MDL	0.0430	0.200	B	6010B		3010A

Validation Reason Code: The analysis hold time for this sample was exceeded. The reporting limit may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
W-051413FB	05/14/2013	7064401	SULFIDE	0.054	MG/L	MDL	0.054	0.16	UJ	4500-S2 D-2000		
W-051413FB	05/14/2013	7064401	METHANE	3.0	UG/L	MDL	3.0	5.0	UJ	RSK-175		
W-051413FB	05/14/2013	7064401	ETHANE	1.0	UG/L	MDL	1.0	5.0	UJ	RSK-175		
W-051413FB	05/14/2013	7064401	ETHENE	1.0	UG/L	MDL	1.0	5.0	UJ	RSK-175		

Validation Reason Code: Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-061413-EW-01(UPPER)	06/14/2013	7095235	TRANS-1,2-DICHLOROETHENE	260	UG/L	MDL	5.0	25	J	8260B		5030B

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-111813-ML04-4	11/18/2013	7287933	IRON	0.553	MG/L	MDL	0.0430	0.200	J	6010B		3010A
GW-111813-ML02-4-D	11/18/2013	7287941	IRON	1.24	MG/L	MDL	0.0430	0.200	J	6010B		3010A
GW-111813-ML02-4	11/18/2013	7287940	IRON	1.17	MG/L	MDL	0.0430	0.200	J	6010B		3010A
W-111913-FB-ML04-7	11/19/2013	7287943	IRON	0.417	MG/L	MDL	0.0430	0.200	J	6010B		3010A

Validation Reason Code: High relative percent difference (RPD) observed between field duplicate and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-071713-ML02-4	07/17/2013	7131567	VINYL CHLORIDE	110	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-071713-ML02-4-D	07/17/2013	7131568	VINYL CHLORIDE	61	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-071713-ML02-4	07/17/2013	7131567	TETRACHLOROETHENE	17	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-071713-ML02-4	07/17/2013	7131567	CIS-1,2 DICHLOROETHENE	510	UG/L	MDL	10	50	J	8260B		5030B
GW-071713-ML02-4	07/17/2013	7131567	TRANS-1,2- DICHLOROETHENE	170	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-071713-ML02-4	07/17/2013	7131567	TRICHLOROETHENE	44	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-071713-ML02-4-D	07/17/2013	7131568	TETRACHLOROETHENE	6.1	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-071713-ML02-4-D	07/17/2013	7131568	CIS-1,2 DICHLOROETHENE	300	UG/L	MDL	10	50	J	8260B		5030B
GW-071713-ML02-4-D	07/17/2013	7131568	TRANS-1,2- DICHLOROETHENE	81	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-071713-ML02-4-D	07/17/2013	7131568	TRICHLOROETHENE	22	UG/L	MDL	1.0	5.0	J	8260B		5030B

Validation Reason Code: High relative percent difference (RPD) observed between MS and MSD samples. The reported result may be imprecise.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-051413-ML02-1	05/14/2013	7057845	METHANE	10	UG/L	MDL	3.0	5.0	J	RSK-175		

Validation Reason Code: High relative percent difference (RPD) observed between REP (laboratory replicate) and parent sample. The reported result may be imprecise.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-051413-ML02-3	05/14/2013	7057850	SULFIDE	0.59	MG/L	MDL	0.22	0.64	J	4500-S2 D-2000		
GW-051413-ML02-4	05/14/2013	7057851	SULFIDE	0.14	MG/L	MDL	0.054	0.16	J	4500-S2 D-2000		
GW-051413-ML02-5	05/14/2013	7057848	SULFIDE	0.16	MG/L	MDL	0.054	0.16	J	4500-S2 D-2000		

Validation Reason Code: The analysis hold time for this sample was exceeded. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-051613- EW01(UPPER)	05/16/2013	7081736	TOTAL ORGANIC CARBON	5.7	MG/L	MDL	0.50	1.0	J	9060A		

Validation Reason Code: Associated LCS and/or LCSD analysis had relative percent recovery (RPR) values less than the lower control limit. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-092413-ML04-3	09/24/2013	7214034	VINYL CHLORIDE	95	UG/L	MDL	2.0	10	J	8260B		5030B
GW-092413-ML04-4	09/24/2013	7214033	VINYL CHLORIDE	110	UG/L	MDL	2.0	10	J	8260B		5030B
GW-092413-ML04-5	09/24/2013	7214031	VINYL CHLORIDE	28	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-092413-ML04-6	09/24/2013	7214027	VINYL CHLORIDE	1.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-092413-ML02-2	09/24/2013	7214029	VINYL CHLORIDE	110	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-092413-ML02-2-D	09/24/2013	7214030	VINYL CHLORIDE	110	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-092413-ML02-3	09/24/2013	7214028	VINYL CHLORIDE	140	UG/L	MDL	5.0	25	J	8260B		5030B
GW-092413-ML02-4	09/24/2013	7214025	VINYL CHLORIDE	140	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-092413-ML02-5	09/24/2013	7214026	VINYL CHLORIDE	120	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-092413-ML02-6	09/24/2013	7214023	VINYL CHLORIDE	0.8	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-092413-ML02-7	09/24/2013	7214032	VINYL CHLORIDE	100	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-092413-ML04-1	09/24/2013	7214024	VINYL CHLORIDE	1.0	UG/L	MDL	0.1	0.5	J	8260B		5030B

Validation Reason Code: The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-082713-ML02-1	08/27/2013	7181701	1,1,1-TRICHLOROETHANE	0.3	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-082713-ML02-1	08/27/2013	7181701	1,1-DICHLOROETHENE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-082713-ML02-4	08/27/2013	7181703	1,1-DICHLOROETHANE	3.1	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-082713-ML02-4	08/27/2013	7181703	1,1-DICHLOROETHENE	3.6	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-082713-ML02-4-D	08/27/2013	7181704	1,1-DICHLOROETHANE	3.2	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-082713-ML02-4-D	08/27/2013	7181704	1,1-DICHLOROETHENE	3.9	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-082713-ML02-5	08/27/2013	7181705	1,1,1-TRICHLOROETHANE	0.4	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-082713-ML02-5	08/27/2013	7181705	1,1-DICHLOROETHANE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-082713-ML02-5	08/27/2013	7181705	TOTAL ORGANIC CARBON	0.70	MG/L	MDL	0.50	1.0	J	9060A		
GW-082713-ML02-6	08/27/2013	7181702	1,1-DICHLOROETHENE	0.3	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-082713-ML02-6	08/27/2013	7181702	TOTAL ORGANIC CARBON	0.53	MG/L	MDL	0.50	1.0	J	9060A		
GW-082713-ML04-1	08/27/2013	7181693	1,1,1-TRICHLOROETHANE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-082713-ML04-2	08/27/2013	7181700	1,1-DICHLOROETHANE	4.7	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-082713-ML04-3	08/27/2013	7181699	ETHANE	4.6	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-082713-ML04-6	08/27/2013	7181694	1,1-DICHLOROETHANE	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-082713-ML04-6	08/27/2013	7181694	1,1-DICHLOROETHENE	0.4	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-082713-ML04-7	08/27/2013	7181706	1,1-DICHLOROETHENE	0.7	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-082713-ML04-7	08/27/2013	7181706	TRICHLOROETHENE	0.4	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-082813-EW01(UPPER)	08/28/2013	7181708	1,1,1-TRICHLOROETHANE	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-082813-EW01(UPPER)	08/28/2013	7181708	1,1-DICHLOROETHENE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-082813-ML02-2	08/28/2013	7181709	ETHANE	4.3	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-082813-ML02-7	08/28/2013	7181711	ETHANE	3.7	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-082813-ML02-7	08/28/2013	7181711	1,1-DICHLOROETHENE	0.4	UG/L	MDL	0.2	1.0	J	8260B		5030B

Validation Reason Code: The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-082813-ML02-7	08/28/2013	7181711	TRICHLOROETHENE	0.2	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-060413-IW-02(UPPER)	06/04/2013	7086387	1,1,1-TRICHLOROETHANE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-060413-IW-02(UPPER)	06/04/2013	7086387	VINYL CHLORIDE	0.4	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-060413-IW-02(UPPER)	06/04/2013	7086387	1,1-DICHLOROETHENE	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051413-IW01(LOWER)	05/14/2013	7057849	TETRACHLOROETHENE	0.6	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-051413-IW01(LOWER)	05/14/2013	7057849	ETHANE	3.4	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-051413-IW01(LOWER)	05/14/2013	7057849	ETHENE	3.6	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-051413-IW01(LOWER)	05/14/2013	7057849	1,1-DICHLOROETHANE	2.2	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-051413-ML02-6	05/14/2013	7057846	METHANE	3.3	UG/L	MDL	3.0	5.0	J	RSK-175		
GW-051413-ML02-6	05/14/2013	7057846	1,1-DICHLOROETHENE	0.3	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051513-IW02(LOWER)	05/15/2013	7064388	ETHANE	2.6	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-051513-IW02(LOWER)	05/15/2013	7064388	ETHENE	2.4	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-051513-IW02(LOWER)	05/15/2013	7064388	1,1-DICHLOROETHANE	2.0	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-051513-IW02(LOWER)	05/15/2013	7064388	1,1-DICHLOROETHENE	3.5	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-051513-IW03(UPPER)	05/15/2013	7064381	1,1,1-TRICHLOROETHANE	0.4	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051513-IW03(UPPER)	05/15/2013	7064381	1,1-DICHLOROETHANE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051513-IW03(UPPER)	05/15/2013	7064381	1,1-DICHLOROETHENE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051513-ML02-2	05/15/2013	7064385	TETRACHLOROETHENE	1.4	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-051513-ML02-2	05/15/2013	7064385	ETHENE	4.7	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-051513-ML02-2	05/15/2013	7064385	1,1-DICHLOROETHANE	4.3	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-051513-ML02-7	05/15/2013	7064386	TETRACHLOROETHENE	1.9	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-051513-ML02-7	05/15/2013	7064386	2-HEXANONE	10	UG/L	MDL	5.0	25	J	8260B		5030B
GW-051513-ML02-7	05/15/2013	7064386	ETHANE	4.7	UG/L	MDL	1.0	5.0	J	RSK-175		

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-051513-ML02-7	05/15/2013	7064386	1,1-DICHLOROETHANE	1.3	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-051513-ML02-7	05/15/2013	7064386	1,1-DICHLOROETHENE	1.0	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-071713-ML02-5	07/17/2013	7131566	1,1,1-TRICHLOROETHANE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-071713-ML02-5	07/17/2013	7131566	1,1-DICHLOROETHANE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-071713-ML02-7	07/17/2013	7131571	ACETONE	8.0	UG/L	MDL	6.0	10	J	8260B		5030B
GW-071713-ML02-7	07/17/2013	7131571	BENZENE	0.2	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-071713-ML02-7	07/17/2013	7131571	ETHANE	2.5	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-071713-ML02-7	07/17/2013	7131571	ETHYL CHLORIDE	0.5	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-073113-ML02-1	07/31/2013	7149554	1,1,1-TRICHLOROETHANE	0.3	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-073113-ML02-1	07/31/2013	7149554	1,1-DICHLOROETHANE	0.3	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-073113-ML02-1	07/31/2013	7149554	1,1-DICHLOROETHENE	0.4	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-073113-ML02-5	07/31/2013	7149555	1,1,1-TRICHLOROETHANE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-073113-ML02-5	07/31/2013	7149555	1,1-DICHLOROETHANE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-073113-ML02-6	07/31/2013	7149556	1,1-DICHLOROETHENE	0.3	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-073113-ML02-6	07/31/2013	7149556	TOTAL ORGANIC CARBON	0.51	MG/L	MDL	0.50	1.0	J	9060A		
GW-073113-ML04-1	07/31/2013	7149563	1,1,1-TRICHLOROETHANE	0.3	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-073113-ML04-1	07/31/2013	7149563	1,1-DICHLOROETHANE	0.3	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-073113-ML04-1	07/31/2013	7149563	1,1-DICHLOROETHENE	0.4	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-073113-ML04-5	07/31/2013	7149564	1,1-DICHLOROETHANE	0.4	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-073113-ML04-6	07/31/2013	7149565	1,1-DICHLOROETHANE	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-073113-ML04-6	07/31/2013	7149565	1,1-DICHLOROETHENE	0.4	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-080113-ML02-2	08/01/2013	7149570	ETHANE	4.0	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-080113-ML02-2	08/01/2013	7149570	ETHENE	4.5	UG/L	MDL	1.0	5.0	J	RSK-175		

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-080113-ML04-3	08/01/2013	7149562	ETHANE	3.9	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-080113-ML04-3	08/01/2013	7149562	ETHENE	3.8	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-080113-ML04-4	08/01/2013	7149559	ETHANE	4.6	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-080113-ML04-4	08/01/2013	7149559	1,1-DICHLOROETHANE	2.3	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-080113-ML04-4-D	08/01/2013	7149566	ETHANE	4.6	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-080113-ML04-4-D	08/01/2013	7149566	1,1-DICHLOROETHANE	2.4	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-080113-ML04-7	08/01/2013	7149568	1,1-DICHLOROETHENE	0.7	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-080113-ML04-7	08/01/2013	7149568	TRICHLOROETHENE	0.4	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-080213-EW01-UPPER	08/02/2013	7149557	1,1,1-TRICHLOROETHANE	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-080213-EW01-UPPER	08/02/2013	7149557	1,1-DICHLOROETHENE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-080213-ML02-7	08/02/2013	7149569	ETHANE	4.8	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-080213-ML02-7	08/02/2013	7149569	1,1-DICHLOROETHANE	1.1	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-081413-ML02-2	08/14/2013	7165129	1,1,1-TRICHLOROETHANE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-081413-ML02-2	08/14/2013	7165129	ETHANE	4.1	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-081413-ML02-2	08/14/2013	7165129	ETHENE	4.6	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-081413-ML02-3	08/14/2013	7165128	1,1,1-TRICHLOROETHANE	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-081413-ML02-3	08/14/2013	7165128	ETHANE	4.8	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-081413-ML02-4	08/14/2013	7165127	1,1,1-TRICHLOROETHANE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-081413-ML02-5	08/14/2013	7165126	1,1,1-TRICHLOROETHANE	0.3	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-081413-ML02-5	08/14/2013	7165126	1,1-DICHLOROETHANE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-081413-ML02-7	08/14/2013	7165130	ETHANE	4.4	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-081413-ML02-7	08/14/2013	7165130	TRICHLOROETHENE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-081513-EW01-LOWER	08/15/2013	7165131	1,1-DICHLOROETHANE	3.2	UG/L	MDL	1.0	5.0	J	8260B		5030B

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GW-081513-EW01-LOWER	08/15/2013	7165131	1,1-DICHLOROETHENE	3.6	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-081513-EW01-UPPER	08/15/2013	7165132	1,1,1-TRICHLOROETHANE	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-081513-EW01-UPPER	08/15/2013	7165132	1,1-DICHLOROETHENE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-050113-128-D	05/02/2013	7045321	ETHENE	1.1	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-050113-128-I	05/02/2013	7045320	ETHENE	3.7	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-051613-IW03(LOWER)	05/17/2013	7064397	ETHANE	1.7	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-051613-IW03(LOWER)	05/17/2013	7064397	ETHENE	3.0	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-051613-IW03(LOWER)	05/17/2013	7064397	1,1-DICHLOROETHANE	1.3	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-051613-IW03(LOWER)	05/17/2013	7064397	1,1-DICHLOROETHENE	2.8	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-051613-IW03(LOWER)-D	05/17/2013	7064400	ETHANE	1.7	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-051613-IW03(LOWER)-D	05/17/2013	7064400	ETHENE	3.0	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-051613-IW03(LOWER)-D	05/17/2013	7064400	1,1-DICHLOROETHANE	1.2	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-051613-IW03(LOWER)-D	05/17/2013	7064400	1,1-DICHLOROETHENE	2.7	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-051613-ML04-3	05/16/2013	7064393	1,1-DICHLOROETHANE	0.3	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051613-ML04-4	05/16/2013	7064392	1,1,1-TRICHLOROETHANE	0.4	UG/L	MDL	0.3	1.3	J	8260B		5030B
GW-051613-ML04-4	05/16/2013	7064392	1,1-DICHLOROETHANE	0.4	UG/L	MDL	0.3	1.3	J	8260B		5030B
GW-051613-ML04-4	05/16/2013	7064392	1,1-DICHLOROETHENE	1.1	UG/L	MDL	0.3	1.3	J	8260B		5030B
GW-051613-ML04-5	05/16/2013	7064391	METHANE	3.4	UG/L	MDL	3.0	5.0	J	RSK-175		
GW-051613-ML04-5	05/16/2013	7064391	1,1-DICHLOROETHENE	0.5	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-051613-ML04-6	05/16/2013	7064390	1,1-DICHLOROETHANE	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051613-ML04-6	05/16/2013	7064390	1,1-DICHLOROETHENE	0.3	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051713-EW01(UPPER)	05/17/2013	7064396	1,1,1-TRICHLOROETHANE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051713-EW01(UPPER)	05/17/2013	7064396	1,1-DICHLOROETHANE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B

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GW-051713-EW01(UPPER)	05/17/2013	7064396	1,1-DICHLOROETHENE	0.3	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051713-ML04-7	05/17/2013	7064395	2-HEXANONE	13	UG/L	MDL	5.0	25	J	8260B		5030B
GW-051713-ML04-7	05/17/2013	7064395	BENZENE	0.6	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-051713-ML04-7	05/17/2013	7064395	ETHYL CHLORIDE	0.9	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-051713-ML04-7	05/17/2013	7064395	1,1-DICHLOROETHANE	1.7	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-051713-ML04-7	05/17/2013	7064395	1,1-DICHLOROETHENE	1.2	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-051713-ML04-7	05/17/2013	7064395	METHYL ETHYL KETONE	12	UG/L	MDL	5.0	25	J	8260B		5030B
GW-061413-EW-01(UPPER)	06/14/2013	7095235	TETRACHLOROETHENE	0.9	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-071713-ML02-4-D	07/17/2013	7131568	ETHANE	4.6	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-071713-ML02-4	07/17/2013	7131567	ETHANE	4.2	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-071713-ML02-4	07/17/2013	7131567	ETHENE	4.6	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-061413-EW-01(UPPER)	06/14/2013	7095235	ETHANE	2.3	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-061413-EW-01(UPPER)	06/14/2013	7095235	ETHENE	3.7	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-071713-EW01(LOWER)	07/17/2013	7131563	ETHANE	4.8	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-071713-EW01(LOWER)	07/17/2013	7131563	ETHENE	4.9	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-071713-EW01(LOWER)	07/17/2013	7131563	1,1-DICHLOROETHANE	3.1	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-071713-EW01(LOWER)	07/17/2013	7131563	1,1-DICHLOROETHENE	3.9	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-071713-EW01(UPPER)	07/17/2013	7131562	1,1-DICHLOROETHENE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-071713-ML02-2	07/17/2013	7131570	ETHANE	1.1	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-071713-ML02-2	07/17/2013	7131570	ETHENE	1.1	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-071713-ML02-2	07/17/2013	7131570	1,1-DICHLOROETHANE	1.0	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-071713-ML02-2	07/17/2013	7131570	1,1-DICHLOROETHENE	1.2	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-071713-ML02-3	07/17/2013	7131569	ETHANE	3.0	UG/L	MDL	1.0	5.0	J	RSK-175		

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Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-071713-ML02-3	07/17/2013	7131569	ETHENE	3.6	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-051413-ML02-1	05/14/2013	7057845	1,1-DICHLOROETHANE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051413-ML02-1	05/14/2013	7057845	1,1-DICHLOROETHENE	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051413-ML02-3	05/14/2013	7057850	ETHANE	2.5	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-051413-ML02-4	05/14/2013	7057851	1,1-DICHLOROETHANE	0.4	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051413-ML02-5	05/14/2013	7057848	1,1,1-TRICHLOROETHANE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051413-ML02-5	05/14/2013	7057848	1,1-DICHLOROETHANE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051613-ML04-1	05/16/2013	7064389	1,1,1-TRICHLOROETHANE	0.3	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051413-ML02-1	05/14/2013	7057845	1,1,1-TRICHLOROETHANE	0.4	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051413-IW01(UPPER)	05/14/2013	7057847	1,1,1-TRICHLOROETHANE	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051413-IW01(UPPER)	05/14/2013	7057847	1,1-DICHLOROETHENE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-051413-ML02-1	05/14/2013	7057845	TOLUENE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-071713-ML02-4-D	07/17/2013	7131568	1,1-DICHLOROETHANE	1.8	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-071713-ML02-4-D	07/17/2013	7131568	1,1-DICHLOROETHENE	1.5	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-071713-ML02-4	07/17/2013	7131567	1,1-DICHLOROETHANE	2.9	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-071713-ML02-4	07/17/2013	7131567	1,1-DICHLOROETHENE	3.2	UG/L	MDL	1.0	5.0	J	8260B		5030B
W-051713FB	05/17/2013	7064404	METHYLENE CHLORIDE	0.2	UG/L	MDL	0.2	0.5	J	8260B		5030B
GW-092413-ML04-1	09/24/2013	7214024	1,1-DICHLOROETHANE	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-092413-ML04-1	09/24/2013	7214024	1,1-DICHLOROETHENE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-092413-ML02-7	09/24/2013	7214032	TRICHLOROETHENE	0.3	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-092413-ML04-1	09/24/2013	7214024	1,1,1-TRICHLOROETHANE	0.3	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-092413-ML02-6	09/24/2013	7214023	1,1-DICHLOROETHENE	0.3	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-092413-ML02-6	09/24/2013	7214023	TOTAL ORGANIC CARBON	0.91	MG/L	MDL	0.50	1.0	J	9060A		

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GW-092413-ML02-7	09/24/2013	7214032	ETHANE	3.6	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-092413-ML02-2-D	09/24/2013	7214030	1,1-DICHLOROETHANE	3.3	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-092413-ML02-2-D	09/24/2013	7214030	1,1-DICHLOROETHENE	3.9	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-092413-ML02-3	09/24/2013	7214028	TETRACHLOROETHENE	2.1	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-092413-ML02-2	09/24/2013	7214029	1,1-DICHLOROETHANE	3.1	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-092413-ML02-2	09/24/2013	7214029	1,1-DICHLOROETHENE	3.9	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-092413-ML04-6	09/24/2013	7214027	1,1-DICHLOROETHANE	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-092513-EW01-UPPER	09/25/2013	7214036	1,1,1-TRICHLOROETHANE	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-092513-EW01-UPPER	09/25/2013	7214036	1,1-DICHLOROETHENE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-092513-ML04-2	09/25/2013	7214035	1,1-DICHLOROETHANE	3.3	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-092513-ML04-2	09/25/2013	7214035	1,1-DICHLOROETHENE	4.9	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-092513-ML04-7	09/25/2013	7214037	1,1-DICHLOROETHANE	1.7	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-092513-ML04-7	09/25/2013	7214037	1,1-DICHLOROETHENE	0.7	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-092413-ML04-5	09/24/2013	7214031	1,1-DICHLOROETHANE	0.9	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-121813-ML02-2	12/18/2013	7321189	TETRACHLOROETHENE	0.6	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-121813-ML02-3	12/18/2013	7321188	ETHANE	4.3	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-121813-ML02-3	12/18/2013	7321188	TRICHLOROETHENE	1.2	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-121813-ML02-4	12/18/2013	7321187	TETRACHLOROETHENE	0.6	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-121813-ML02-4	12/18/2013	7321187	1,1-DICHLOROETHENE	0.9	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-121813-ML04-1	12/18/2013	7321183	1,1,1-TRICHLOROETHANE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-121813-ML04-3	12/18/2013	7321191	TETRACHLOROETHENE	0.7	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-121813-ML04-6	12/18/2013	7321185	1,1-DICHLOROETHENE	0.4	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-121913-ML02-7	12/19/2013	7321201	ETHANE	4.0	UG/L	MDL	1.0	5.0	J	RSK-175		

Validation Reason Code: The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-121913-ML02-7	12/19/2013	7321201	1,1-DICHLOROETHANE	0.8	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-121913-ML02-7	12/19/2013	7321201	1,1-DICHLOROETHENE	0.3	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-121913-ML04-2	12/19/2013	7321197	1,1-DICHLOROETHANE	3.4	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-121913-ML04-2	12/19/2013	7321197	1,1-DICHLOROETHENE	4.8	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-121913-ML04-7	12/19/2013	7321200	ETHANE	4.9	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-121913-ML04-7	12/19/2013	7321200	1,1-DICHLOROETHENE	0.7	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-121913-ML04-7	12/19/2013	7321200	TRICHLOROETHENE	0.5	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-111913-ML04-2	11/19/2013	7288091	1,1-DICHLOROETHANE	3.4	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-111913-ML04-2	11/19/2013	7288091	1,1-DICHLOROETHENE	4.6	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-111913-ML04-3	11/19/2013	7288086	TETRACHLOROETHENE	1.1	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-111913-ML04-7	11/19/2013	7288095	ETHANE	4.6	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-111913-ML04-7	11/19/2013	7288095	1,1-DICHLOROETHENE	0.7	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-111913-ML04-7	11/19/2013	7288095	TRICHLOROETHENE	0.4	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-111913-EW01-LOWER	11/19/2013	7288092	1,1-DICHLOROETHANE	2.5	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-111913-EW01-LOWER	11/19/2013	7288092	1,1-DICHLOROETHENE	3.8	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-111913-ML02-7	11/19/2013	7288090	ETHANE	4.3	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-111913-ML02-7	11/19/2013	7288090	1,1-DICHLOROETHANE	1	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-111813-ML02-4	11/18/2013	7288088	1,1-DICHLOROETHANE	3.5	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-111813-ML02-4	11/18/2013	7288088	1,1-DICHLOROETHENE	3.1	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-111813-ML02-4-D	11/18/2013	7288089	TETRACHLOROETHENE	1.9	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-111813-ML02-4-D	11/18/2013	7287941	SULFIDE	0.12	MG/L	MDL	0.054	0.16	J	4500-S2 D-2000		
GW-111813-ML02-3	11/18/2013	7288084	TRICHLOROETHENE	1.6	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-111813-ML02-4	11/18/2013	7288088	TETRACHLOROETHENE	2.0	UG/L	MDL	1.0	5.0	J	8260B		5030B

Validation Reason Code: The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-111813-ML02-4	11/18/2013	7287940	SULFIDE	0.11	MG/L	MDL	0.054	0.16	J	4500-S2 D-2000		
GW-111813-ML02-4-D	11/18/2013	7288089	1,1-DICHLOROETHANE	3.3	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-111813-ML02-4-D	11/18/2013	7288089	1,1-DICHLOROETHENE	2.8	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-111813-ML02-6	11/18/2013	7288080	1,1-DICHLOROETHENE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-111813-ML04-1	11/18/2013	7288081	1,1,1-TRICHLOROETHANE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-111813-ML04-1	11/18/2013	7288081	TOTAL ORGANIC CARBON	0.89	MG/L	MDL	0.50	1.0	J	9060A		
GW-111813-ML04-4	11/18/2013	7287933	SULFATE	2.2	MG/L	MDL	1.5	5.0	J	300.0		
GW-111813-ML04-6	11/18/2013	7288079	1,1-DICHLOROETHANE	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-111813-ML04-6	11/18/2013	7288079	1,1-DICHLOROETHENE	0.4	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-091213-ML02-2	09/12/2013	7198162	ETHANE	4.7	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-091213-ML02-4	09/12/2013	7198157	1,1-DICHLOROETHANE	3.6	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-091213-ML02-4	09/12/2013	7198157	1,1-DICHLOROETHENE	4.3	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-091213-ML02-4-D	09/12/2013	7198160	1,1-DICHLOROETHANE	3.5	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-091213-ML02-4-D	09/12/2013	7198160	1,1-DICHLOROETHENE	4.2	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-091213-ML02-5	09/12/2013	7198156	1,1,1-TRICHLOROETHANE	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-091213-ML02-7	09/12/2013	7198163	ETHANE	4.9	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-091213-ML02-7	09/12/2013	7198163	1,1-DICHLOROETHENE	0.4	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-091213-ML02-7	09/12/2013	7198163	TRICHLOROETHENE	0.4	UG/L	MDL	0.2	1.0	J	8260B		5030B
GW-091313-EW01-UPPER	09/13/2013	7198165	1,1,1-TRICHLOROETHANE	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-091313-EW01-UPPER	09/13/2013	7198165	1,1-DICHLOROETHENE	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B

Certificate of Analysis: Gene-Trac® VC, Vinyl Chloride Reductase (*vcrA*) Assay

Customer: Laura Zimmerman, Geosyntec Consultants

SiREM Reference: S-2877

Project: EISB

Report Date: 5-Jul-13

Customer Reference: TR 0352A

Data Files: MyiQ-VC-QPCR-0576
VC-QPCR-check-gel-0591
MyiQ-DB-VC-QPCR-0302
DHC-UP-0754

Table 1: Test Results

Customer Sample ID	SiREM Sample ID	Sample Collection Date	Sample Matrix	Percent <i>vcrA</i> *	Vinyl Chloride Reductase (<i>vcrA</i>) Gene Copies/Liter
GW-061413-EW-01 (UPPER)	VCR-4041	14-Jun-13	Groundwater	0.0006 - 0.002 %	5 x 10 ³ C
W-061413-EW-01-FB	VCR-4042	14-Jun-13	Groundwater	NA	3 x 10 ³ U, I

Notes:

* Percent *vcrA* in microbial population. This value is calculated by dividing the number of vinyl chloride reductase A (*vcrA*) gene copies quantified by the total number of bacteria estimated to be in the sample based on the mass of DNA extracted from the sample. Range represents normal variation in enumeration of *vcrA*.

J The associated value is an estimated quantity between the method detection limit and quantitation limit.

U Not detected, associated value is the quantification limit.

B Analyte was also detected in the method blank.

NA Not applicable as *vcrA* not detected and/or quantifiable DNA not extracted from the sample.

I Sample inhibited the test reaction based on inability to PCR amplify extracted DNA with universal primers.

C Correction factor applied to correct for non-specific PCR amplification products, value is an estimated quantity.

Analyst: 
Jennifer Wilkinson
Senior Laboratory Technician

Approved: 
Ximena Druar, B.Sc.
Genetic Testing Coordinator

Table 2: Detailed Test Parameters, Gene-Trac Test Reference S-2877

Customer Sample ID	GW-061413-EW-01 (UPPER)	W-061413-EW-01-FB
SiREM <i>vcrA</i> Sample ID	VCR-4041	VCR-4042
Date Received	20-Jun-13	20-Jun-13
Sample Temperature	9 °C	9 °C
Filtration Date	26-Jun-13	26-Jun-13
Volume Used for DNA Extraction	500 mL	500 mL
DNA Extraction Date	26-Jun-13	26-Jun-13
DNA Concentration in Sample (extractable)	1802 ng/L	671 ng/L
PCR Amplifiable DNA	Detected	ND
<i>vcrA</i> qPCR Date Analyzed	2-Jul-13	2-Jul-13
Laboratory Controls (see Table 3)	Passed	Passed
Comments	--	--

Notes:

Refer to Table 3 for detailed results of controls.
 ND = not detected
 °C = degrees Celsius

PCR = polymerase chain reaction
 qPCR = quantitative PCR
vcrA = vinyl chloride reductase

ng/L = nanograms per liter
 mL = milliliters
 DNA = Deoxyribonucleic acid

Table 3: Gene-Trac® VC Control Results, Test Reference S-2877

Laboratory Control	Analysis Date	Control Description	Spiked <i>vcrA</i> reductase Gene Copies per Liter	Recovered <i>vcrA</i> reductase Gene Copies per Liter	Comments
Positive Control Low Concentration	2-Jul-13	qPCR with KB1 genomic DNA (CSLV-0444)	8.2×10^4	9.2×10^4	--
Positive Control High Concentration	2-Jul-13	qPCR with KB1 genomic DNA (CSHV-0444)	1.0×10^7	1.2×10^7	--
DNA Extraction Blank	2-Jul-13	DNA extraction sterile water (FB-1972)	0	2.6×10^3 U	--
Negative Control	2-Jul-13	Tris Reagent Blank (TBV-0415)	0	2.6×10^3 U	--

Notes:

DNA = Deoxyribonucleic acid

qPCR = quantitative PCR

16S rRNA = 16S ribosomal ribonucleic acid

U Not detected, associated value is the quantification limit.

vcrA = vinyl chloride reductase

Certificate of Analysis: Gene-Trac® VC, Vinyl Chloride Reductase (*vcrA*) Assay

Customer: Laura Zimmerman, Geosyntec Consultants

Project: EISB

Customer Reference: TR0352A

SiREM Reference: S-2867

Report Date: 27-Jun-13

Data Files: iQ5-VC-QPCR-0575
iQ5-DB-VC-QPCR-0301
DHC-UP-0753

Table 1: Test Results

Customer Sample ID	SiREM Sample ID	Sample Collection Date	Sample Matrix	Percent <i>vcrA</i> *	Vinyl Chloride Reductase (<i>vcrA</i>) Gene Copies/Liter
GW 060413-IW-02 (upper)	VCR-4033	4-Jun-13	Groundwater	NA	3 x 10 ³ U, I

Notes:

* Percent *vcrA* in microbial population. This value is calculated by dividing the number of vinyl chloride reductase A (*vcrA*) gene copies quantified by the total number of bacteria estimated to be in the sample based on the mass of DNA extracted from the sample. Range represents normal variation in enumeration of *vcrA*.

J The associated value is an estimated quantity between the method detection limit and quantitation limit.

U Not detected, associated value is the quantitation limit.

B Analyte was also detected in the method blank.

NA Not applicable as *vcrA* not detected and/or quantifiable DNA not extracted from the sample.

I Sample inhibited the test reaction based on inability to PCR amplify extracted DNA with universal primers.

C Correction factor applied to correct for non-specific PCR amplification products, value is an estimated quantity.

E Extracted genomic DNA was not detected in the sample.

Analyst: 
Jen Wilkinson
Senior Laboratory Technician

Approved: 
Ximena Druar, B.Sc.
Genetic Testing Coordinator

Table 2: Detailed Test Parameters, Test Reference S-2867

Customer Sample ID	GW 060413-IW-02 (upper)
SiREM Sample ID	VCR-4033
Date Received	12-Jun-13
Sample Temperature	5 °C
Filtration Date	17-Jun-13
Volume Used for DNA Extraction	500 mL
DNA Extraction Date	17-Jun-13
DNA Concentration in Sample (extractable)	1977 ng/L
PCR Amplifiable DNA	ND
qPCR Date Analyzed	27-Jun-13
Laboratory Controls (see Table 3)	Passed
Comments	--

Notes:

Refer to Table 3 for detailed results of controls.

mL = milliliters

ng/L = nanograms per liter

PCR = polymerase chain reaction

qPCR = quantitative PCR

vcrA = vinyl chloride reductase

DNA = Deoxyribonucleic acid

°C = degrees Celsius

ND = not detected

Table 3: Laboratory Controls, Test Reference S-2867

Laboratory Control	Analysis Date	Control Description	Spiked <i>vcrA</i> reductase Gene Copies per Liter	Recovered <i>vcrA</i> reductase Gene Copies per Liter	Comments
Positive Control	27-Jun-13	qPCR with KB-1 genomic DNA (CSHV-0443)	1.2×10^7	1.1×10^7	--
Negative Control	27-Jun-13	Tris Reagent Blank (TBV-0414)	0	2.6×10^3 U	--
DNA Extraction Blank	27-Jun-13	DNA extraction sterile water (FB-1965)	0	2.6×10^3 U	--

Notes:

qPCR = quantitative PCR

DNA = Deoxyribonucleic acid

16S rRNA = 16S ribosomal ribonucleic acid

vcrA = vinyl chloride reductase

U = Not detected, associated value is the quantitation limit.



Chain-of-Custody Form

siremlab.com

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Guelph ON, Canada N1G 5G3
(519) 822-2265

Lab #
S-2867

Project Name EISB		Project # 50-7882		Analysis																																																																																																												
Project Manager Norma Eichlin				Gene-Trac (Inv. #)	<table border="1"> <tr> <td colspan="12">Preservative Key</td> </tr> <tr> <td colspan="12">0. None ICE</td> </tr> <tr> <td colspan="12">1. HCL _____</td> </tr> <tr> <td colspan="12">2. Other _____</td> </tr> <tr> <td colspan="12">3. Other _____</td> </tr> <tr> <td colspan="12">4. Other _____</td> </tr> <tr> <td colspan="12">5. Other _____</td> </tr> <tr> <td colspan="12">6. Other _____</td> </tr> </table>												Preservative Key												0. None ICE												1. HCL _____												2. Other _____												3. Other _____												4. Other _____												5. Other _____												6. Other _____											
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Cooler Condition: Good		P.O. # 50-7882	
Cooler Temperature: 5°C		Bill To: E.I. DuPont	
Custody Seals: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

For Lab Use Only

Relinquished By: George Nemeth		Received By: Susan Fayer		Relinquished By:		Received By:	
Signature		Signature		Signature		Signature	
Printed Name George Nemeth		Printed Name Susan Fayer		Printed Name		Printed Name	
Firm E.I. DuPont		Firm SIREM		Firm		Firm	
Date/Time 6/7/13 1700		Date/Time 6/12/13 13:00		Date/Time		Date/Time	

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

In the absence of an executed agreement, submission of samples to SIREM implies consent for performance of analyses specified on this Chain-of-Custody form and agreement with the terms and conditions of the SIREM Laboratory Services Agreement. The entity submitting samples shall be responsible for payment in full for said analyses.

Certificate of Analysis: Gene-Trac® VC, Vinyl Chloride Reductase (*vcrA*) Assay

Customer: Laura Zimmerman, Geosyntec Consultants

SiREM Reference: S-2848

Project: EISB

Report Date: 5-Jun-13

Customer Reference: TR0352A

Data Files: MyiQ-VC-QPCR-0569
VC-QPCR-check-gel-0584
MyiQ-DB-VC-QPCR-0295
DHC-UP-0748

Table 1: Test Results

Customer Sample ID	SiREM Sample ID	Sample Collection Date	Sample Matrix	Percent <i>vcrA</i> *	Vinyl Chloride Reductase (<i>vcrA</i>) Gene Copies/Liter
GW 051413-ML02-3	VCR-3979	14-May-13	Groundwater	NA	1 x 10 ⁴ U, I
GW 051513-IW02 (lower)	VCR-3980	15-May-13	Groundwater	0.0004 - 0.001 %	2 x 10 ³
GW 051513-IW02 (lower)- D	VCR-3981	15-May-13	Groundwater	0.0002 - 0.0006 %	2 x 10 ³
GW 051713- EW01 (upper)	VCR-3982	17-May-13	Groundwater	NA	3 x 10 ³ U
W 051513-FB	VCR-3983	15-May-13	Groundwater	NA	3 x 10 ³ U, I
W 051613-FB	VCR-3984	16-May-13	Groundwater	NA	3 x 10 ³ U, I
051713-FB	VCR-3985	17-May-13	Groundwater	NA	3 x 10 ³ U, I
GW 051713- ML04-3	VCR-3986	17-May-13	Groundwater	0.0005 - 0.001 %	2 x 10 ⁴

Notes:

* Percent *vcrA* in microbial population. This value is calculated by dividing the number of vinyl chloride reductase A (*vcrA*) gene copies quantified by the total number of bacteria estimated to be in the sample based on the mass of DNA extracted from the sample. Range represents normal variation in enumeration of *vcrA*.

J The associated value is an estimated quantity between the method detection limit and quantitation limit.

U Not detected, associated value is the quantification limit.

B Analyte was also detected in the method blank.

NA Not applicable as *vcrA* not detected and/or quantifiable DNA not extracted from the sample.

I Sample inhibited the test reaction based on inability to PCR amplify extracted DNA with universal primers.

C Correction factor applied to correct for non-specific PCR amplification products, value is an estimated quantity.

Analyst: 
Jennifer Wilkinson
Senior Laboratory Technician

Approved: 
Ximena Druar, B.Sc.
Genetic Testing Coordinator

Table 2.1: Detailed Test Parameters, Gene-Trac Test Reference S-2848

Customer Sample ID	GW 051413-ML02-3	GW 051513-IW02 (lower)	GW 051513-IW02 (lower)- D	GW 051713- EW01 (upper)
SiREM <i>vcrA</i> Sample ID	VCR-3979	VCR-3980	VCR-3981	VCR-3982
Date Received	22-May-13	22-May-13	22-May-13	22-May-13
Sample Temperature	5 °C	5 °C	5 °C	5 °C
Filtration Date	27-May-13	27-May-13	27-May-13	27-May-13
Volume Used for DNA Extraction	100 mL	500 mL	500 mL	500 mL
DNA Extraction Date	28-May-13	28-May-13	28-May-13	28-May-13
DNA Concentration in Sample (extractable)	3150 ng/L	1205 ng/L	2076 ng/L	1800 ng/L
PCR Amplifiable DNA	ND	Detected	Detected	ND
<i>vcrA</i> qPCR Date Analyzed	29-May-13	29-May-13	29-May-13	29-May-13
Laboratory Controls (see Table 3)	Passed	Passed	Passed	Passed
Comments	--	--	--	--

Notes:

Refer to Table 3 for detailed results of controls.

ND = not detected

°C = degrees Celsius

PCR = polymerase chain reaction

qPCR = quantitative PCR

vcrA = vinyl chloride reductase

ng/L = nanograms per liter

mL = milliliters

DNA = Deoxyribonucleic acid

Table 2.2: Detailed Test Parameters, Gene-Trac Test Reference S-2848

Customer Sample ID	W 051513-FB	W 051613-FB	051713-FB	GW 051713- ML04-3
SiREM <i>vcrA</i> Sample ID	VCR-3983	VCR-3984	VCR-3985	VCR-3986
Date Received	22-May-13	22-May-13	22-May-13	22-May-13
Sample Temperature	5 °C	5 °C	5 °C	5 °C
Filtration Date	27-May-13	27-May-13	27-May-13	27-May-13
Volume Used for DNA Extraction	500 mL	500 mL	500 mL	100 mL
DNA Extraction Date	28-May-13	28-May-13	28-May-13	28-May-13
DNA Concentration in Sample (extractable)	1118 ng/L	1461 ng/L	1248 ng/L	7853 ng/L
PCR Amplifiable DNA	ND	ND	ND	Detected
<i>vcrA</i> qPCR Date Analyzed	29-May-13	29-May-13	29-May-13	29-May-13
Laboratory Controls (see Table 3)	Passed	Passed	Passed	Passed
Comments	--	--	--	--

Notes:

Refer to Table 3 for detailed results of controls.

ND = not detected

°C = degrees Celsius

PCR = polymerase chain reaction

qPCR = quantitative PCR

vcrA = vinyl chloride reductase

ng/L = nanograms per liter

mL = milliliters

DNA = Deoxyribonucleic acid

Table 3: Experimental Control Results, Gene-Trac Test Reference S-2848

Laboratory Control	Analysis Date	Control Description	Spiked <i>vcrA</i> reductase Gene Copies per Liter	Recovered <i>vcrA</i> reductase Gene Copies per Liter	Comments
Positive Control Low Concentration	29-May-13	qPCR with KB1 genomic DNA (CSLV-0437)	8.2×10^4	1.1×10^5	--
Positive Control High Concentration	29-May-13	qPCR with KB1 genomic DNA (CSHV-0437)	1.0×10^7	1.2×10^7	--
DNA Extraction Blank	29-May-13	DNA extraction sterile water (FB-1946)	0	2.6×10^3 U	--
Negative Control	29-May-13	Tris Reagent Blank (TBV-0408)	0	2.6×10^3 U	--

Notes:

DNA = Deoxyribonucleic acid

qPCR = quantitative PCR

16S rRNA = 16S ribosomal ribonucleic acid

U Not detected, associated value is the quantification limit.

vcrA = vinyl chloride reductase

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

June 21, 2013

Project: POM - EISB MONITORING PROGRAM

Submission Date: 05/03/2013
Group Number: 1387615
SDG: POM60
PO Number: LBIO-66380
State of Sample Origin: NJ

Client Sample Description

GW-050113-128 Groundwater
GW-050113-128-I Groundwater
GW-050113-128-D Groundwater
W-050113-128-D Groundwater
W-050113-128FB Blank Water
W-050113-128TB Blank Water

Lancaster Labs (LLI) #

7045319
7045320
7045321
7045322
7045323
7045324

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

1 COPY TO Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

REVISED

Sample Description: GW-050113-128 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7045319
LLI Group # 1387615
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/01/2013 14:13 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/03/2013 18:01

Reported: 06/21/2013 15:48

128-- SDG#: POM60-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Miscellaneous			RSKSOP-175 modified	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1
Wet Chemistry			EPA 300.0	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	202	10.0	20.0	50
00228	Sulfate	14808-79-8	17.9	1.5	5.0	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131290025A	05/09/2013 19:45	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13128655902A	05/08/2013 22:02	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13128655902A	05/09/2013 17:53	Christopher D Meeks	50
00228	Sulfate	EPA 300.0	1	13128655902A	05/08/2013 22:02	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-050113-128-I Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7045320
LLI Group # 1387615
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/02/2013 11:38 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/03/2013 18:01

Reported: 06/21/2013 15:48

128-I SDG#: POM60-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	5.4	1.0	5.0	1
07105	Ethene	74-85-1	3.7 J	1.0	5.0	1
07105	Methane	74-82-8	1,100	30	50	10
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	84.8	4.0	8.0	20
00228	Sulfate	14808-79-8	36.2	1.5	5.0	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131290025A	05/09/2013 20:39	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131290025A	05/09/2013 23:41	Elizabeth J Marin	10
01505	Bromide	EPA 300.0	1	13128655902A	05/08/2013 22:51	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13128655902A	05/09/2013 18:42	Christopher D Meeks	20
00228	Sulfate	EPA 300.0	1	13128655902A	05/08/2013 22:51	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-050113-128-D Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7045321
LLI Group # 1387615
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/02/2013 15:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/03/2013 18:01
Reported: 06/21/2013 15:48

128D1 SDG#: POM60-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Miscellaneous		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	1.1 J	1.0	5.0	1
07105	Methane	74-82-8	190	3.0	5.0	1
Wet Chemistry		EPA 300.0	mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	11.8	1.0	2.0	5
00228	Sulfate	14808-79-8	12.6	1.5	5.0	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131290025A	05/09/2013 21:33	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13128655902A	05/08/2013 23:07	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13128655902A	05/08/2013 23:07	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13128655902A	05/08/2013 23:07	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: W-050113-128-D Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7045322
LLI Group # 1387615
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/02/2013 09:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/03/2013 18:01

Reported: 06/21/2013 15:48

128D2 SDG#: POM60-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Miscellaneous			RSKSOP-175 modified	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1
Wet Chemistry			EPA 300.0	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	N.D.	1.0	2.0	5
00228	Sulfate	14808-79-8	N.D.	1.5	5.0	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131290025A	05/09/2013 21:52	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13128655902A	05/09/2013 00:12	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13128655902A	05/09/2013 00:12	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13128655902A	05/09/2013 00:12	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

Sample Description: W-050113-128FB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7045323
LLI Group # 1387615
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/01/2013 15:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/03/2013 18:01

Reported: 06/21/2013 15:48

128FB SDG#: POM60-05FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Miscellaneous			RSKSOP-175 modified	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1
Wet Chemistry			EPA 300.0	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	0.40	0.50	1
00224	Chloride	16887-00-6	N.D.	0.20	0.40	1
00228	Sulfate	14808-79-8	N.D.	0.30	1.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131290025A	05/09/2013 22:10	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13128655902A	05/08/2013 23:23	Christopher D Meeks	1
00224	Chloride	EPA 300.0	1	13128655902A	05/08/2013 23:23	Christopher D Meeks	1
00228	Sulfate	EPA 300.0	1	13128655902A	05/08/2013 23:23	Christopher D Meeks	1

*=This limit was used in the evaluation of the final result

Sample Description: W-050113-128TB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7045324
LLI Group # 1387615
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/02/2013 09:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/03/2013 18:01

Reported: 06/21/2013 15:48

128TB SDG#: POM60-06TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC Miscellaneous						
		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131290025A	05/09/2013 22:28	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 06/21/13 at 03:48 PM

Group Number: 1387615

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 131290025A	Sample number(s): 7045319-7045324								
Ethane	N.D.	1.0	5.0	ug/l	110		80-120		
Ethene	N.D.	1.0	5.0	ug/l	107		80-120		
Methane	N.D.	3.0	5.0	ug/l	115		80-120		
Batch number: 13128655902A	Sample number(s): 7045319-7045323								
Bromide	N.D.	0.40	0.50	mg/l	101		90-110		
Chloride	N.D.	0.20	0.40	mg/l	99		90-110		
Sulfate	N.D.	0.30	1.0	mg/l	102		90-110		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 131290025A	Sample number(s): 7045319-7045324 UNSPK: 7045319								
Ethane	96	100	32-129	4	20				
Ethene	97	101	35-162	4	20				
Methane	100	104	35-157	4	20				
Batch number: 13128655902A	Sample number(s): 7045319-7045323 UNSPK: 7045319 BKG: 7045319								
Bromide	103		90-110			N.D.	N.D.	0 (1)	20
Chloride	98		90-110			202	206	2	20
Sulfate	108		90-110			17.9	18.2	2 (1)	20

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 131290025A
Propene

7045319	94
7045320	84

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 06/21/13 at 03:48 PM

Group Number: 1387615

Surrogate Quality Control

7045321	93
7045322	96
7045323	93
7045324	101
Blank	113
LCS	108
MS	93
MSD	96

Limits: 42-131

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Sample Administration *1387615*
Receipt Documentation Log

Client/Project: DuPont Pompton Lakes
Date of Receipt: 5/3/13
Time of Receipt: 1801
Source Code: 01

Shipping Container Sealed: YES NO
Custody Seal Present * : YES NO
* Custody seal was intact unless otherwise noted in the discrepancy section
Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	2.3	TB	WI	Y	B	
2			/				
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:
W-050113-128-FB labeled W-050113-1285-FB

Unpacker Signature/Emp#: [Signature] 2308 Date/Time: 5/3/13 1950

Issued by Dept. 6042 Management

2174.06

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

June 20, 2013

Project: POM - EISB MONITORING PROGRAM

Submittal Date: 05/15/2013

Group Number: 1390224

SDG: POM63

PO Number: LBIO-66380

State of Sample Origin: NJ

Client Sample Description

GW-051413-ML02-1 Groundwater
GW-051413-ML02-6 Groundwater
GW-051413-IW01(UPPER) Groundwater
GW-051413-ML02-5 Groundwater
GW-051413-IW01(LOWER) Groundwater
GW-051413-ML02-3 Groundwater
GW-051413-ML02-4 Groundwater
W-051513-TB Blank Water

Lancaster Labs (LLI) #

7057845
7057846
7057847
7057848
7057849
7057850
7057851
7057852

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

1 COPY TO Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: GW-051413-ML02-1 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7057845
LLI Group # 1390224
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/14/2013 10:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/15/2013 18:50

Reported: 06/20/2013 13:58

ML021 SDG#: POM63-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	1.3	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.2 J	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 J	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	41	1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	9.9	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	23	0.1	0.5	1
02898	Toluene	108-88-3	0.2 J	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.4 J	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	14	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	5.4	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	10	3.0	5.0	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	35.0	2.0	4.0	10

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051413-ML02-1 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7057845
LLI Group # 1390224
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/14/2013 10:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/15/2013 18:50

Reported: 06/20/2013 13:58

ML021 SDG#: POM63-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
00228	Sulfate	EPA 300.0 14808-79-8	mg/l 23.2	mg/l 1.5	mg/l 5.0	5
00230	Sulfide	SM 4500-S2 D-2000 18496-25-8	mg/l N.D.	mg/l 0.054	mg/l 0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	C131422AA	05/22/2013 23:52	Kevin A Sposito	1
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	C131432AA	05/24/2013 04:34	Kevin A Sposito	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131422AA	05/22/2013 23:52	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C131432AA	05/24/2013 04:34	Kevin A Sposito	10
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131420031A	05/22/2013 18:51	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13141655602B	05/22/2013 01:43	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13141655602B	05/22/2013 15:03	Christopher D Meeks	10
00228	Sulfate	EPA 300.0	1	13141655602B	05/22/2013 01:43	Christopher D Meeks	5
00230	Sulfide	SM 4500-S2 D-2000	1	13140023001A	05/20/2013 12:30	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-051413-ML02-6 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7057846
LLI Group # 1390224
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/14/2013 11:28 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/15/2013 18:50

Reported: 06/20/2013 13:58

ML026 SDG#: POM63-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.3 J	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	22	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	16	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	19	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	22	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	1.2	0.1	0.5	1
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	3.3 J	3.0	5.0	1
Wet Chemistry EPA 300.0						
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	34.6	2.0	4.0	10
00228	Sulfate	14808-79-8	39.8	1.5	5.0	5
SM 4500-S2 D-2000						
00230	Sulfide	18496-25-8	N.D.	0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131422AA	05/23/2013 00:14	Kevin A Sposito	1
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131432AA	05/24/2013 04:57	Kevin A Sposito	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131422AA	05/23/2013 00:14	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C131432AA	05/24/2013 04:57	Kevin A Sposito	10
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131420031A	05/22/2013 19:45	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13141655602B	05/22/2013 02:31	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13141655602B	05/22/2013 15:35	Christopher D Meeks	10

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051413-ML02-6 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7057846
LLI Group # 1390224
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/14/2013 11:28 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/15/2013 18:50

Reported: 06/20/2013 13:58

ML026 SDG#: POM63-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00228	Sulfate	EPA 300.0	1	13141655602B	05/22/2013 02:31	Christopher D Meeks	5
00230	Sulfide	SM 4500-S2 D-2000	1	13140023001A	05/20/2013 12:30	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-051413-IW01 (UPPER) Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7057847
LLI Group # 1390224
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/14/2013 12:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/15/2013 18:50

Reported: 06/20/2013 13:58

IW01U SDG#: POM63-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.2 J	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	24	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	16	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	21	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 J	0.1	0.5	1
02898	Trichloroethene	79-01-6	25	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	0.9	0.1	0.5	1
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1
Wet Chemistry EPA 300.0						
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	60.1	4.0	8.0	20
00228	Sulfate	14808-79-8	25.8	1.5	5.0	5
SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	2.0	0.50	1.0	1
The reported result is the average of the following trials:						
	1.784	mg/l				
	2.235	mg/l				
	2.026	mg/l				
	2.085	mg/l				
SM 4500-S2 D-2000						
00230	Sulfide	18496-25-8	N.D.	0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131422AA	05/23/2013 00:36	Kevin A Sposito	1
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131432AA	05/24/2013 05:19	Kevin A Sposito	10

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051413-IW01 (UPPER) Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7057847
LLI Group # 1390224
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/14/2013 12:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/15/2013 18:50

Reported: 06/20/2013 13:58

IW01U SDG#: POM63-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131422AA	05/23/2013	00:36	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C131432AA	05/24/2013	05:19	Kevin A Sposito	10
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131420031A	05/22/2013	20:03	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13141655602B	05/22/2013	02:48	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13141655602B	05/22/2013	15:52	Christopher D Meeks	20
00228	Sulfate	EPA 300.0	1	13141655602B	05/22/2013	02:48	Christopher D Meeks	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13140049502A	05/20/2013	05:23	James S Mathiot	1
00230	Sulfide	SM 4500-S2 D-2000	1	13140023001A	05/20/2013	12:30	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-051413-ML02-5 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7057848
LLI Group # 1390224
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/14/2013 12:45 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/15/2013 18:50

Reported: 06/20/2013 13:58

ML025 SDG#: POM63-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.2 J	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.5	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	45	0.5	2.5	5
02898	trans-1,2-Dichloroethene	156-60-5	25	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	24	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.2 J	0.1	0.5	1
02898	Trichloroethene	79-01-6	40	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	1.8	0.1	0.5	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	5.8	3.0	5.0	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	13.0	1.0	2.0	5
00228	Sulfate	14808-79-8	28.6	1.5	5.0	5
	SM 4500-S2 D-2000		mg/l	mg/l	mg/l	
00230	Sulfide	18496-25-8	0.16 J	0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131422AA	05/23/2013 00:58	Kevin A Sposito	5
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131432AA	05/24/2013 06:26	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131422AA	05/23/2013 00:58	Kevin A Sposito	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C131432AA	05/24/2013 06:26	Kevin A Sposito	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131420031A	05/22/2013 20:21	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13141655602B	05/22/2013 03:36	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13141655602B	05/22/2013 03:36	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051413-ML02-5 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7057848
LLI Group # 1390224
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/14/2013 12:45 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/15/2013 18:50

Reported: 06/20/2013 13:58

ML025 SDG#: POM63-04

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00228	Sulfate	EPA 300.0	1	13141655602B	05/22/2013 03:36	Christopher D Meeks	5
00230	Sulfide	SM 4500-S2 D-2000	1	13140023001A	05/20/2013 12:30	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051413-IW01 (LOWER) Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7057849
LLI Group # 1390224
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/14/2013 16:32 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/15/2013 18:50

Reported: 06/20/2013 13:58

IW01L SDG#: POM63-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	N.D.	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	2.2 J	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	N.D.	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	3.7	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	440	5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	150	5.0	25	50
02898	Tetrachloroethene	127-18-4	0.6 J	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	2.5	5
02898	Trichloroethene	79-01-6	22	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	79	0.5	2.5	5
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	3.4 J	1.0	5.0	1
07105	Ethene	74-85-1	3.6 J	1.0	5.0	1
07105	Methane	74-82-8	880	15	25	5
Wet Chemistry EPA 300.0						
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	55.4	4.0	8.0	20
00228	Sulfate	14808-79-8	39.8	1.5	5.0	5
SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	5.7	0.50	1.0	1
The reported result is the average of the following trials:						
	5.958	mg/l				
	5.443	mg/l				
	5.795	mg/l				
	5.418	mg/l				
SM 4500-S2 D-2000						
00230	Sulfide	18496-25-8	N.D.	0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131422AA	05/23/2013 01:42	Kevin A Sposito	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131422AA	05/23/2013 02:05	Kevin A Sposito	50
		purge					

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051413-IW01 (LOWER) Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7057849
LLI Group # 1390224
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/14/2013 16:32 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/15/2013 18:50

Reported: 06/20/2013 13:58

IW01L SDG#: POM63-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131422AA	05/23/2013	01:42	Kevin A Sposito	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C131422AA	05/23/2013	02:05	Kevin A Sposito	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131420031A	05/22/2013	20:59	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131420031A	05/23/2013	18:51	Elizabeth J Marin	5
01505	Bromide	EPA 300.0	1	13141655602B	05/22/2013	03:52	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13141655602B	05/22/2013	16:08	Christopher D Meeks	20
00228	Sulfate	EPA 300.0	1	13141655602B	05/22/2013	03:52	Christopher D Meeks	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13140049502A	05/20/2013	06:14	James S Mathiot	1
00230	Sulfide	SM 4500-S2 D-2000	1	13140023001A	05/20/2013	12:30	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-051413-ML02-3 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7057850
LLI Group # 1390224
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/14/2013 16:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/15/2013 18:50

Reported: 06/20/2013 13:58

ML023 SDG#: POM63-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	2.7	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	2.4	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	280	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	81	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	7.7	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	52	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	46	1.0	5.0	10
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	2.5 J	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	140	3.0	5.0	1
Wet Chemistry EPA 300.0						
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	48.3	2.0	4.0	10
00228	Sulfate	14808-79-8	39.6	1.5	5.0	5
SM 4500-S2 D-2000						
00230	Sulfide	18496-25-8	0.59 J	0.22	0.64	4
Reporting limits were raised due to interference from the sample matrix.						

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131422AA	05/23/2013 02:28	Kevin A Sposito	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131432AA	05/24/2013 05:41	Kevin A Sposito	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I131441AA	05/24/2013 19:22	Jason M Long	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131422AA	05/23/2013 02:28	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C131432AA	05/24/2013 05:41	Kevin A Sposito	10
01163	GC/MS VOA Water Prep	SW-846 5030B	3	I131441AA	05/24/2013 19:22	Jason M Long	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131420031A	05/22/2013 21:17	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051413-ML02-3 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7057850
LLI Group # 1390224
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/14/2013 16:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/15/2013 18:50

Reported: 06/20/2013 13:58

ML023 SDG#: POM63-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	13141655602B	05/22/2013	04:08	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13141655602B	05/22/2013	16:24	Christopher D Meeks	10
00228	Sulfate	EPA 300.0	1	13141655602B	05/22/2013	04:08	Christopher D Meeks	5
00230	Sulfide	SM 4500-S2 D-2000	1	13140023001A	05/20/2013	12:30	Susan E Hibner	4

*=This limit was used in the evaluation of the final result

Sample Description: GW-051413-ML02-4 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7057851
LLI Group # 1390224
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/14/2013 15:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/15/2013 18:50

Reported: 06/20/2013 13:58

ML024 SDG#: POM63-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.4 J	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	1.4	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	89	1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	36	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	46	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	0.5	0.1	0.5	1
02898	Trichloroethene	79-01-6	85	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	6.0	0.1	0.5	1
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	22	3.0	5.0	1
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	20.6	1.0	2.0	5
00228	Sulfate	14808-79-8	43.8	1.5	5.0	5
	SM 4500-S2 D-2000		mg/l	mg/l	mg/l	
00230	Sulfide	18496-25-8	0.14 J	0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131422AA	05/23/2013 02:50	Kevin A Sposito	1
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131432AA	05/24/2013 06:03	Kevin A Sposito	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131422AA	05/23/2013 02:50	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C131432AA	05/24/2013 06:03	Kevin A Sposito	10
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131420031A	05/22/2013 21:36	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13141655602B	05/22/2013 04:24	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13141655602B	05/22/2013 04:24	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051413-ML02-4 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7057851
LLI Group # 1390224
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/14/2013 15:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/15/2013 18:50

Reported: 06/20/2013 13:58

ML024 SDG#: POM63-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00228	Sulfate	EPA 300.0	1	13141655602B	05/22/2013 04:24	Christopher D Meeks	5
00230	Sulfide	SM 4500-S2 D-2000	1	13140023001A	05/20/2013 12:30	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: W-051513-TB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7057852
LLI Group # 1390224
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/15/2013 10:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/15/2013 18:50

Reported: 06/20/2013 13:58

515TB SDG#: POM63-08TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1

*=This limit was used in the evaluation of the final result

Sample Description: W-051513-TB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7057852
LLI Group # 1390224
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/15/2013 10:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/15/2013 18:50

Reported: 06/20/2013 13:58

515TB SDG#: POM63-08TB*

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	C131422AA	05/22/2013 22:00	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131422AA	05/22/2013 22:00	Kevin A Sposito	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131420031A	05/22/2013 18:33	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 06/20/13 at 01:58 PM

Group Number: 1390224

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: C131422AA	Sample number(s): 7057845-7057852								
Acetone	N.D.	3.0	5.0	ug/l	127	112	73-135	13	30
Benzene	N.D.	0.1	0.5	ug/l	104	103	80-120	0	30
Bromochloromethane	N.D.	0.1	0.5	ug/l	107	107	80-125	0	30
Bromodichloromethane	N.D.	0.1	0.5	ug/l	102	103	80-120	0	30
Bromoform	N.D.	0.1	0.5	ug/l	103	105	63-132	2	30
Bromomethane	N.D.	0.1	0.5	ug/l	97	98	38-146	1	30
2-Butanone	N.D.	1.0	5.0	ug/l	126	108	70-130	15	30
Carbon Disulfide	N.D.	0.4	0.5	ug/l	105	104	80-128	0	30
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	107	106	74-133	1	30
Chlorobenzene	N.D.	0.1	0.5	ug/l	108	107	80-120	1	30
Chloroethane	N.D.	0.1	0.5	ug/l	97	97	67-124	0	30
Chloroform	N.D.	0.1	0.5	ug/l	105	105	80-120	1	30
Chloromethane	N.D.	0.2	0.5	ug/l	83	84	55-135	0	30
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	128	107	57-141	18	30
Dibromochloromethane	N.D.	0.1	0.5	ug/l	108	107	80-126	1	30
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	104	103	80-120	0	30
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	103	103	80-120	0	30
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	104	104	80-120	0	30
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	103	104	80-112	0	30
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	105	105	80-120	0	30
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	106	104	80-127	2	30
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	107	107	80-123	0	30
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	106	105	80-120	1	30
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	106	105	80-120	1	30
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	107	108	80-120	0	30
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	98	100	74-120	1	30
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	92	94	73-126	2	30
Ethylbenzene	N.D.	0.1	0.5	ug/l	103	103	80-120	0	30
2-Hexanone	N.D.	1.0	5.0	ug/l	100	102	80-129	1	30
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	99	101	69-135	2	30
Methylene Chloride	N.D.	0.2	0.5	ug/l	106	107	80-120	0	30
Styrene	N.D.	0.1	0.5	ug/l	107	107	80-120	1	30
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	101	100	80-125	1	30
Tetrachloroethene	N.D.	0.1	0.5	ug/l	104	103	80-120	0	30
Toluene	N.D.	0.1	0.5	ug/l	104	104	80-120	0	30
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	104	104	79-127	0	30
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	107	107	80-120	0	30
Trichloroethene	N.D.	0.1	0.5	ug/l	105	105	80-120	0	30
Vinyl Chloride	N.D.	0.1	0.5	ug/l	90	90	65-127	0	30
Xylene (Total)	N.D.	0.1	0.5	ug/l	105	105	80-120	0	30
Batch number: C131432AA	Sample number(s): 7057845-7057848,7057850-7057851								
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	105		74-133		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 06/20/13 at 01:58 PM

Group Number: 1390224

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	103		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	103		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	104		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	103		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	104		80-120		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	101		80-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	102		79-127		
Trichloroethene	N.D.	0.1	0.5	ug/l	103		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	82		65-127		
Batch number: I131441AA	Sample number(s): 7057850								
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	104	101	80-120	3	30
Batch number: 131420031A	Sample number(s): 7057845-7057852								
Ethane	N.D.	1.0	5.0	ug/l	99		80-120		
Ethene	N.D.	1.0	5.0	ug/l	99		80-120		
Methane	N.D.	3.0	5.0	ug/l	101		80-120		
Batch number: 13140049502A	Sample number(s): 7057847,7057849								
Total Organic Carbon (Quad)	N.D.	0.50	1.0	mg/l	104		91-113		
Batch number: 13141655602B	Sample number(s): 7057845-7057851								
Bromide	N.D.	0.40	0.50	mg/l	94		90-110		
Chloride	N.D.	0.20	0.40	mg/l	95		90-110		
Sulfate	N.D.	0.30	1.0	mg/l	99		90-110		
Batch number: 13140023001A	Sample number(s): 7057845-7057851								
Sulfide	N.D.	0.054	0.16	mg/l	98		90-110		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: C131432AA	Sample number(s): 7057845-7057848,7057850-7057851 UNSPK: P067258								
Carbon Tetrachloride	118	119	81-148	1	30				
1,1-Dichloroethane	109	110	88-136	1	30				
1,2-Dichloroethane	104	107	82-135	3	30				
1,1-Dichloroethene	116	120	83-150	4	30				
cis-1,2-Dichloroethene	108	113	82-129	4	30				
trans-1,2-Dichloroethene	112	115	88-127	3	30				
Tetrachloroethene	112	116	75-129	3	30				
1,1,1-Trichloroethane	111	114	85-140	3	30				
Trichloroethene	112	116	85-131	4	30				
Vinyl Chloride	88	90	65-151	3	30				
Batch number: 131420031A	Sample number(s): 7057845-7057852 UNSPK: 7057845								
Ethane	82	65	32-129	23*	20				
Ethene	82	65	35-162	24*	20				
Methane	86	64	35-157	24*	20				

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 06/20/13 at 01:58 PM

Group Number: 1390224

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Batch number: 13140049502A	Sample number(s): 7057847,7057849 UNSPK: 7057847							
Total Organic Carbon (Quad)	107	99	63-142	7	20			
Batch number: 13141655602B	Sample number(s): 7057845-7057851 UNSPK: 7057845 BKG: 7057845							
Bromide	97		90-110		N.D.	N.D.	0 (1)	20
Chloride	94		90-110		35.0	34.0	3	20
Sulfate	101		90-110		23.2	23.7	2 (1)	20
Batch number: 13140023001A	Sample number(s): 7057845-7057851 UNSPK: P057559 BKG: P057559							
Sulfide	-39*	46	42-131	43*	16	0.99	0.91	9* 5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles

Batch number: C131422AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7057845	104	100	99	96
7057846	104	101	98	95
7057847	103	100	99	95
7057849	103	98	100	97
7057850	103	97	98	97
7057851	105	103	98	96
7057852	103	102	100	97
Blank	103	100	100	97
LCS	102	101	101	100
LCSD	101	98	102	99

Limits: 77-114 74-113 77-110 78-110

Analysis Name: GC/MS Volatiles

Batch number: C131432AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7057848	105	101	98	95
Blank	105	103	99	96
LCS	103	103	101	99
MS	102	101	100	99
MSD	102	100	101	100

Limits: 77-114 74-113 77-110 78-110

Analysis Name: Volatile Headspace Hydrocarbon

Batch number: 131420031A

Propene

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 06/20/13 at 01:58 PM

Group Number: 1390224

Surrogate Quality Control

7057845	62
7057846	94
7057847	83
7057848	83
7057849	97
7057850	92
7057851	93
7057852	98
Blank	94
LCS	101
MS	81
MSD	65

Limits: 42-131

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



Lancaster Laboratories

Analysis Request / Environmental Services Chain of Custody

2 of 9

For Lancaster Laboratories Use Only

Group No.: 1390224 Sample Nos.: 7057845-52
Acc't: 07032 SF: 178283 SCR No.: 139279 Cooler No.: C17680 **25402**
Cooler Temperature upon receipt: 1.9 °C Container No.: 1

Facility Name: Pompton Lakes		Project Manager: George Nemeth		Analyses Required										Comments:											
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735		Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)	10/92 SOW List of Volatiles (8260)																			
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																							
2000 Cannonball Road		Release No.:																							
Pompton Lakes NJ 07442		PO Number: LBIO-66380																							
Sampler(s): <u>G. Nemeth / R. Hyatt</u>																									
Project Name: EISB MONITORING PROGRAM 2013																									
Sample Identification	Date Collected	Time Collected	Matrix	Containers			Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)	10/92 SOW List of Volatiles (8260)													Condition upon receipt:			
				Volume (ml)	Preserv	No.																			
GW-051413-MLO2-1	5/14/13	1000	WW	40	HCl	3		X															intact		
GW-051413-MLO2-1	↓	↓	WW	40	HCl	2	X																		
GW-051413-MLO2-6	5/14/13	1128	WW	40	HCl	3		X																	
GW-↓	↓	↓	WW	40	HCl	2	X																		
GW-051413-IW01 (Upper)	5/14/13	1230	WW	40	HCl	3	X	X																	
GW-↓	↓	↓	WW	40	HCl	2	X																		
GW-051413-MLO2-5	5/14/13	1245	WW	40	HCl	3		X																	
GW-↓	↓	↓	WW	40	HCl	2	X																		
GW-051413-IW01 (Lower)	5/14/13	1632	WW	40	HCl	3		X																	
GW-↓	↓	↓	WW	40	HCl	2	X																		
Turnaround Time Requested (please circle): <u>Normal</u> Rush Number of days: _____				Special Instructions: Full Deliverables needed																					
Bottles Relinquished by: <u>George Nemeth</u>		Date: <u>5/15/13</u>	Time: <u>1500</u>	Bottles Received by: <u>W.A. King</u>		Date: <u>5/15/13</u>	Time: <u>1500</u>																		
Bottles Relinquished by: <u>W.A. King</u>		Date: <u>5-15-13</u>	Time: <u>18.50</u>	Bottles Received by:		Date:	Time:																		
Bottles Relinquished by:		Date:	Time:	Bottles Received by:		Date:	Time:																		
Bottles Relinquished by:		Date:	Time:	Bottles Received by: <u>W.A. King</u>		Date: <u>5/15/13</u>	Time: <u>1850</u>																		

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.



Lancaster Laboratories

Analysis Request / Environmental Services Chain of Custody

1 of 1

For Lancaster Laboratories Use Only

Group No.: 1390224 Sample Nos.: 7057845-52
Acc't: 07032 SF: 178283 SCR No.: 139279 Cooler No.: C21746 25396
Cooler Temperature upon receipt: 1.9-3.6 °C Container No.: 1,2

Facility Name: Pompton Lakes		Project Manager: George Nemeth		Analyses Required										Comments:											
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735																							
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																							
2000 Cannonball Road		Release No.:																							
Pompton Lakes NJ 07442		PO Number: LBIO-66380																							
Sampler(s): <u>G. Nemeth / R. Nyatt</u>		Project Name: EISB MONITORING PROGRAM 2013												Condition upon receipt: <u>intact</u>											
Sample Identification	Date Collected	Time Collected	Matrix	Containers			Cl- (300.0)	S2- (4500 S2 D)	SO4 (300.0)	TOC Quad (SW-846 9060A)															
				Volume (ml)	Preserv	No.																			
GW- <u>051413-MLO2-5</u>	<u>5/14/13</u>	<u>1245</u>	WW	40	None	2	X	X																	
GW- ↓	↓	↓	WW	250	NaOH/ZnAc	1			X																
GW- <u>051413-IW01 (Lower)</u>	<u>5/14/13</u>	<u>1632</u>	WW	40	H3PO4	5				X															
GW- ↓	↓	↓	WW	40	None	2	X	X																	
GW- ↓	↓	↓	WW	250	NaOH/ZnAc	1			X																
GW-			WW	40	H3PO4	5																			
GW- <u>051413-MLO2-3</u>	<u>5/14/13</u>	<u>1600</u>	WW	40	None	2	X	X																	
GW- ↓	↓	↓	WW	250	NaOH/ZnAc	1			X																
GW-			WW	40	H3PO4	5																			

GIN

Turnaround Time Requested (please circle): <u>Normal</u> Rush Number of days: _____				Special Instructions: Full Deliverables needed			
Bottles Relinquished by: <u>George Nemeth</u>		Date: <u>5/15/13</u> Time: <u>1500</u>		Bottles Received by: <u>Washington</u>		Date: <u>5/15/13</u> Time: <u>1500</u>	
Bottles Relinquished by: <u>Washington</u>		Date: <u>5-15-13</u> Time: <u>1850</u>		Bottles Received by:		Date: _____ Time: _____	
Bottles Relinquished by:		Date: _____ Time: _____		Bottles Received by:		Date: _____ Time: _____	
Bottles Relinquished by:		Date: _____ Time: _____		Bottles Received by: <u>Gi</u>		Date: <u>5/15/13</u> Time: <u>1850</u>	

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300
Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Environmental Sample Administration
Receipt Documentation Log

1390224

Client/Project: DuPont Pompton Lakes
 Date of Receipt: 5/15/13
 Time of Receipt: 1850
 Source Code: 01

Shipping Container Sealed: YES NO

Custody Seal Present * : YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	10T121	1.9	TB	WI	Y	B	
2	↓	3.6	↓	↓	↓	↓	
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0 (2#38 + 2#57)

Paperwork Discrepancy/Unpacking Problems:

③ ^{when 5/15/13}
 Sulfide bottle for MLO2-1 date=5/13/13
~~unpreserved and 2 HCl vials for GW-051413. MLO2-1 labeled GW-051313 -~~
 MLO2-1
 only received 4 tripblank vials total
 received 1 extra vial labeled as void

Unpacker Signature/Emp#: [Signature] 2308 Date/Time: 5/15/13 2117

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

June 20, 2013

Project: POM - EISB MONITORING PROGRAM

Submission Date: 05/17/2013

Group Number: 1391495

SDG: POM64

PO Number: LBIO-66380

State of Sample Origin: NJ

Client Sample Description

Lancaster Labs (LLI) #

GW-051513-IW03(UPPER) Groundwater	7064381
GW-051513-IW03(UPPER) MS Groundwater	7064382
GW-051513-IW03(UPPER) MSD Groundwater	7064383
GW-051513-IW03(UPPER) Dupl Groundwater	7064384
GW-051513-ML02-2 Groundwater	7064385
GW-051513-ML02-7 Groundwater	7064386
GW-051513-ML02-7-D Groundwater	7064387
GW-051513-IW02(LOWER) Groundwater	7064388
GW-051613-ML04-1 Groundwater	7064389
GW-051613-ML04-6 Groundwater	7064390
GW-051613-ML04-5 Groundwater	7064391
GW-051613-ML04-4 Groundwater	7064392
GW-051613-ML04-3 Groundwater	7064393
GW-051713-ML04-2 Groundwater	7064394
GW-051713-ML04-7 Groundwater	7064395
GW-051713-EW01(UPPER) Groundwater	7064396
GW-051613-IW03(LOWER) Groundwater	7064397
GW-051613-IW03(LOWER) MS Groundwater	7064398
GW-051613-IW03(LOWER) MSD Groundwater	7064399
GW-051613-IW03(LOWER)-D Groundwater	7064400
W-051413FB Blank Water	7064401
W-051513FB Blank Water	7064402
W-051613FB Blank Water	7064403
W-051713FB Blank Water	7064404
W-051713TB Blank Water	7064405

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

1 COPY TO Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

REVISED

Sample Description: GW-051513-IW03 (UPPER) Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064381
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/15/2013 14:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-IW03 SDG#: POM64-01BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.2 J	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.2 J	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	22	1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	10	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	19	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.4 J	0.1	0.5	1
02898	Trichloroethene	79-01-6	17	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	2.2	0.1	0.5	1
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	22	3.0	5.0	1
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	77.2	4.0	8.0	20
00228	Sulfate	14808-79-8	24.4	1.5	5.0	5
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	N.D.	0.50	1.0	1
	The reported result is the average of the following trials:					
	0	mg/l				
	0	mg/l				
	0	mg/l				
	0	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131431AA	05/23/2013 13:48	Kerri E Legerlotz	1
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131431AA	05/23/2013 14:59	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131431AA	05/23/2013 13:48	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C131431AA	05/23/2013 14:59	Kerri E Legerlotz	10

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051513-IW03 (UPPER) Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064381
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/15/2013 14:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-IW03 SDG#: POM64-01BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/28/2013	16:48	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13145655601B	05/25/2013	20:44	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13145655601B	05/29/2013	22:12	Christopher D Meeks	20
00228	Sulfate	EPA 300.0	1	13145655601B	05/25/2013	20:44	Christopher D Meeks	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13144049502A	05/24/2013	02:31	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-051513-IW03 (UPPER) MS Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064382
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/15/2013 14:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-IW03 SDG#: POM64-01MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	5.2	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	5.0	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	4.8	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.3	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	33	E 0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	15	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	24	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.4	0.1	0.5	1
02898	Trichloroethene	79-01-6	21	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	6.4	0.1	0.5	1
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	57	1.0	5.0	1
07105	Ethene	74-85-1	59	1.0	5.0	1
07105	Methane	74-82-8	77	3.0	5.0	1
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	49.7	4.0	5.0	10
00224	Chloride	16887-00-6	171	10.0	20.0	50
00228	Sulfate	14808-79-8	75.1	3.0	10.0	10
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	11.5	0.50	1.0	1
	The reported result is the average of the following trials:					
	11.588	mg/l				
	11.607	mg/l				
	11.496	mg/l				
	11.354	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131431AA	05/23/2013 14:15	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131431AA	05/23/2013 14:15	Kerri E Legerlotz	1
07105	Volatile Headspace	RSKSOP-175	1	131480004A	05/28/2013 17:07	Elizabeth J Marin	1
	Hydrocarbon	modified					
01505	Bromide	EPA 300.0	1	13145655601B	05/25/2013 21:16	Christopher D Meeks	10

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051513-IW03 (UPPER) MS Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064382
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/15/2013 14:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-IW03 SDG#: POM64-01MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
00224	Chloride	EPA 300.0	1	13145655601B	05/29/2013	22:44	Christopher D Meeks	50
00228	Sulfate	EPA 300.0	1	13145655601B	05/25/2013	21:16	Christopher D Meeks	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13144049502A	05/24/2013	03:00	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-051513-IW03 (UPPER) MSD Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064383
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/15/2013 14:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-IW03 SDG#: POM64-01MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	5.1	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	4.9	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	4.6	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.2	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	33 E	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	15	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	24	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	5.2	0.1	0.5	1
02898	Trichloroethene	79-01-6	21	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	6.7	0.1	0.5	1
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	52	1.0	5.0	1
07105	Ethene	74-85-1	54	1.0	5.0	1
07105	Methane	74-82-8	71	3.0	5.0	1
Wet Chemistry						
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	11.5	0.50	1.0	1
	The reported result is the average of the following trials:					
	11.577	mg/l				
	11.473	mg/l				
	11.438	mg/l				
	11.313	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131431AA	05/23/2013 14:37	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131431AA	05/23/2013 14:37	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/28/2013 17:25	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13144049502A	05/24/2013 03:47	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-051513-IW03 (UPPER) Dupl Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064384
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/15/2013 14:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-IW03 SDG#: POM64-01DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry			EPA 300.0	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	78.9	4.0	8.0	20
00228	Sulfate	14808-79-8	24.0	1.5	5.0	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	13145655601B	05/25/2013 21:00	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13145655601B	05/29/2013 22:28	Christopher D Meeks	20
00228	Sulfate	EPA 300.0	1	13145655601B	05/25/2013 21:00	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-051513-ML02-2 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064385
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/15/2013 11:35 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-ML22 SDG#: POM64-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	N.D.	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	4.3 J	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	N.D.	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	5.3	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	830	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	310	10	50	100
02898	Tetrachloroethene	127-18-4	1.4 J	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	N.D.	1.0	5.0	10
02898	Trichloroethene	79-01-6	10	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	140	1.0	5.0	10
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	6.4	1.0	5.0	1
07105	Ethene	74-85-1	4.7 J	1.0	5.0	1
07105	Methane	74-82-8	730	15	25	5
Wet Chemistry EPA 300.0						
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	59.2	4.0	8.0	20
00228	Sulfate	14808-79-8	33.2	1.5	5.0	5
SM 4500-S2 D-2000						
00230	Sulfide	18496-25-8	N.D.	0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131431AA	05/23/2013 15:22	Kerri E Legerlotz	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131431AA	05/23/2013 15:44	Kerri E Legerlotz	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131431AA	05/23/2013 15:22	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C131431AA	05/23/2013 15:44	Kerri E Legerlotz	100
07105	Volatiles Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/28/2013 17:44	Elizabeth J Marin	1
07105	Volatiles Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013 05:56	Elizabeth J Marin	5
01505	Bromide	EPA 300.0	1	13145655601B	05/25/2013 21:32	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051513-ML02-2 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064385
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/15/2013 11:35 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-ML22 SDG#: POM64-02

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
00224	Chloride	EPA 300.0	1	13145655601B	05/29/2013	23:00	Christopher D Meeks	20
00228	Sulfate	EPA 300.0	1	13145655601B	05/25/2013	21:32	Christopher D Meeks	5
00230	Sulfide	SM 4500-S2 D-2000	1	13142023001A	05/22/2013	13:40	Michele L Graham	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-051513-ML02-7 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064386
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/15/2013 13:35 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-ML27 SDG#: POM64-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	87	15	25	5
02898	Benzene	71-43-2	N.D.	0.5	2.5	5
02898	Bromochloromethane	74-97-5	N.D.	0.5	2.5	5
02898	Bromodichloromethane	75-27-4	N.D.	0.5	2.5	5
02898	Bromoform	75-25-2	N.D.	0.5	2.5	5
02898	Bromomethane	74-83-9	N.D.	0.5	2.5	5
02898	2-Butanone	78-93-3	39	5.0	25	5
02898	Carbon Disulfide	75-15-0	N.D.	2.0	2.5	5
02898	Carbon Tetrachloride	56-23-5	N.D.	0.5	2.5	5
02898	Chlorobenzene	108-90-7	N.D.	0.5	2.5	5
02898	Chloroethane	75-00-3	N.D.	0.5	2.5	5
02898	Chloroform	67-66-3	N.D.	0.5	2.5	5
02898	Chloromethane	74-87-3	N.D.	1.0	2.5	5
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1.0	2.5	5
02898	Dibromochloromethane	124-48-1	N.D.	0.5	2.5	5
02898	1,2-Dibromoethane	106-93-4	N.D.	0.5	2.5	5
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	2.5	5
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	2.5	5
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	1.3 J	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	N.D.	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	1.0 J	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	190	5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	57	0.5	2.5	5
02898	1,2-Dichloropropane	78-87-5	N.D.	0.5	2.5	5
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	2.5	5
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	2.5	5
02898	Ethylbenzene	100-41-4	N.D.	0.5	2.5	5
02898	2-Hexanone	591-78-6	10 J	5.0	25	5
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	25	5
02898	Methylene Chloride	75-09-2	N.D.	1.0	2.5	5
02898	Styrene	100-42-5	N.D.	0.5	2.5	5
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	2.5	5
02898	Tetrachloroethene	127-18-4	1.9 J	0.5	2.5	5
02898	Toluene	108-88-3	N.D.	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	2.5	5
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	2.5	5
02898	Trichloroethene	79-01-6	14	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	55	0.5	2.5	5
02898	Xylene (Total)	1330-20-7	N.D.	0.5	2.5	5
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	4.7 J	1.0	5.0	1
07105	Ethene	74-85-1	13	1.0	5.0	1
07105	Methane	74-82-8	1,900	60	100	20
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	62.4	4.0	8.0	20

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051513-ML02-7 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064386
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/15/2013 13:35 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-ML27 SDG#: POM64-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
00228	Sulfate	EPA 300.0 14808-79-8	mg/l 29.2	mg/l 1.5	mg/l 5.0	5
00230	Sulfide	SM 4500-S2 D-2000 18496-25-8	mg/l N.D.	mg/l 0.054	mg/l 0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	H131442AA	05/25/2013 03:31	Kevin A Sposito	5
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	H131442AA	05/25/2013 03:52	Kevin A Sposito	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131442AA	05/25/2013 03:31	Kevin A Sposito	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	H131442AA	05/25/2013 03:52	Kevin A Sposito	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/28/2013 18:02	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013 06:14	Elizabeth J Marin	20
01505	Bromide	EPA 300.0	1	13145655601B	05/25/2013 22:21	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13145655601B	05/29/2013 23:16	Christopher D Meeks	20
00228	Sulfate	EPA 300.0	1	13145655601B	05/25/2013 22:21	Christopher D Meeks	5
00230	Sulfide	SM 4500-S2 D-2000	1	13142023001A	05/22/2013 13:40	Michele L Graham	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051513-ML02-7-D Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064387
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/15/2013 13:35 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-ML7D SDG#: POM64-04FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
		SM 4500-S2 D-2000	mg/l	mg/l	mg/l	
00230	Sulfide	18496-25-8	N.D.	0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00230	Sulfide	SM 4500-S2 D-2000	1	13142023001A	05/22/2013 13:40	Michele L Graham	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-051513-IW02 (LOWER) Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064388
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/15/2013 16:01 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-IW02 SDG#: POM64-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	N.D.	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	2.0 J	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	N.D.	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	3.5 J	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	440	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	150	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	N.D.	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	N.D.	1.0	5.0	10
02898	Trichloroethene	79-01-6	23	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	70	1.0	5.0	10
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	2.6 J	1.0	5.0	1
07105	Ethene	74-85-1	2.4 J	1.0	5.0	1
07105	Methane	74-82-8	650	15	25	5
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	50.4	4.0	8.0	20
00228	Sulfate	14808-79-8	41.0	1.5	5.0	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131431AA	05/23/2013 16:06	Kerri E Legerlotz	10
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131431AA	05/23/2013 16:29	Kerri E Legerlotz	100
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131431AA	05/23/2013 16:06	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C131431AA	05/23/2013 16:29	Kerri E Legerlotz	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/28/2013 18:21	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013 06:33	Elizabeth J Marin	5
01505	Bromide	EPA 300.0	1	13145655601B	05/25/2013 22:37	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13145655601B	05/29/2013 23:32	Christopher D Meeks	20

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051513-IW02 (LOWER) Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064388
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/15/2013 16:01 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-IW02 SDG#: POM64-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00228	Sulfate	EPA 300.0	1	13145655601B	05/25/2013 22:37	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-051613-ML04-1 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064389
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/16/2013 11:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-ML41 SDG#: POM64-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	5.5	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	12	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	2.3	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	20	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.3 J	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	14	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	40.7	2.0	4.0	10

*=This limit was used in the evaluation of the final result

Sample Description: GW-051613-ML04-1 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064389
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/16/2013 11:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-ML41 SDG#: POM64-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
00228	Sulfate	14808-79-8	23.3	1.5	5.0	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	H131442AA	05/25/2013 04:13	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131442AA	05/25/2013 04:13	Kevin A Sposito	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/28/2013 18:39	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13145655601B	05/25/2013 22:53	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13145655601B	05/29/2013 23:49	Christopher D Meeks	10
00228	Sulfate	EPA 300.0	1	13145655601B	05/25/2013 22:53	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-051613-ML04-6 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064390
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/16/2013 12:10 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-ML46 SDG#: POM64-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 J	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.3 J	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	30	0.2	1.0	2
02898	trans-1,2-Dichloroethene	156-60-5	16	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	22	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	26	0.2	1.0	2
02898	Vinyl Chloride	75-01-4	1	0.1	0.5	1
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	19.7	1.0	2.0	5
00228	Sulfate	14808-79-8	42.3	1.5	5.0	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131431AA	05/23/2013 16:52	Kerri E Legerlotz	2
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I131491AA	05/29/2013 11:00	Jason M Long	1
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131431AA	05/23/2013 16:52	Kerri E Legerlotz	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I131491AA	05/29/2013 11:00	Jason M Long	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/28/2013 19:16	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13145655601B	05/25/2013 23:09	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13145655601B	05/25/2013 23:09	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13145655601B	05/25/2013 23:09	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-051613-ML04-5 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064391
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/16/2013 13:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-ML45 SDG#: POM64-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	N.D.	0.2	1.0	2
02898	1,1-Dichloroethane	75-34-3	N.D.	0.2	1.0	2
02898	1,2-Dichloroethane	107-06-2	N.D.	0.2	1.0	2
02898	1,1-Dichloroethene	75-35-4	0.5 J	0.2	1.0	2
02898	cis-1,2-Dichloroethene	156-59-2	44	2.0	10	20
02898	trans-1,2-Dichloroethene	156-60-5	23	0.2	1.0	2
02898	Tetrachloroethene	127-18-4	7.8	0.2	1.0	2
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1.0	2
02898	Trichloroethene	79-01-6	32	0.2	1.0	2
02898	Vinyl Chloride	75-01-4	1.3	0.2	1.0	2
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	3.4 J	3.0	5.0	1
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	30.5	2.0	4.0	10
00228	Sulfate	14808-79-8	25.9	1.5	5.0	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131431AA	05/23/2013 17:37	Kerri E Legerlotz	2
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131431AA	05/23/2013 17:59	Kerri E Legerlotz	20
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131431AA	05/23/2013 17:37	Kerri E Legerlotz	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C131431AA	05/23/2013 17:59	Kerri E Legerlotz	20
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013 01:18	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13145655601C	05/26/2013 00:30	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13145655601C	05/30/2013 01:26	Christopher D Meeks	10
00228	Sulfate	EPA 300.0	1	13145655601C	05/26/2013 00:30	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-051613-ML04-4 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064392
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/16/2013 15:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-ML44 SDG#: POM64-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	N.D.	0.3	1.3	2.5
02898	1,1-Dichloroethane	75-34-3	0.4 J	0.3	1.3	2.5
02898	1,2-Dichloroethane	107-06-2	N.D.	0.3	1.3	2.5
02898	1,1-Dichloroethene	75-35-4	1.1 J	0.3	1.3	2.5
02898	cis-1,2-Dichloroethene	156-59-2	75	2.5	13	25
02898	trans-1,2-Dichloroethene	156-60-5	38	0.3	1.3	2.5
02898	Tetrachloroethene	127-18-4	39	0.3	1.3	2.5
02898	1,1,1-Trichloroethane	71-55-6	0.4 J	0.3	1.3	2.5
02898	Trichloroethene	79-01-6	70	2.5	13	25
02898	Vinyl Chloride	75-01-4	4.2	0.3	1.3	2.5
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	7.4	3.0	5.0	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	28.9	1.0	2.0	5
00228	Sulfate	14808-79-8	37.5	1.5	5.0	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131431AA	05/23/2013 18:21	Kerri E Legerlotz	2.5
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131431AA	05/23/2013 18:43	Kerri E Legerlotz	25
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131431AA	05/23/2013 18:21	Kerri E Legerlotz	2.5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C131431AA	05/23/2013 18:43	Kerri E Legerlotz	25
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013 01:37	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13145655601B	05/25/2013 23:25	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13145655601B	05/25/2013 23:25	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13145655601B	05/25/2013 23:25	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-051613-ML04-3 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064393
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/16/2013 16:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-ML43 SDG#: POM64-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.3 J	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.6	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	64	2.0	10	20
02898	trans-1,2-Dichloroethene	156-60-5	23	2.0	10	20
02898	Tetrachloroethene	127-18-4	1.7	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	17	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	7.7	0.1	0.5	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	110	3.0	5.0	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	45.3	2.0	4.0	10
00228	Sulfate	14808-79-8	44.7	1.5	5.0	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131491AA	05/29/2013 12:13	Lauren C Temple	20
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131491AA	05/29/2013 13:20	Lauren C Temple	1
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131491AA	05/29/2013 12:13	Lauren C Temple	20
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C131491AA	05/29/2013 13:20	Lauren C Temple	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013 01:55	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13145655601B	05/25/2013 23:41	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13145655601B	05/30/2013 00:37	Christopher D Meeks	10
00228	Sulfate	EPA 300.0	1	13145655601B	05/25/2013 23:41	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051713-ML04-2 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064394
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/17/2013 10:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-ML42 SDG#: POM64-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	N.D.	0.2	1.0	2
02898	1,1-Dichloroethane	75-34-3	1.5	0.2	1.0	2
02898	1,2-Dichloroethane	107-06-2	N.D.	0.2	1.0	2
02898	1,1-Dichloroethene	75-35-4	1.9	0.2	1.0	2
02898	cis-1,2-Dichloroethene	156-59-2	200	1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	62	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	3.8	0.2	1.0	2
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1.0	2
02898	Trichloroethene	79-01-6	24	0.2	1.0	2
02898	Vinyl Chloride	75-01-4	45	1.0	5.0	10
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	20	1.0	5.0	1
07105	Ethene	74-85-1	31	1.0	5.0	1
07105	Methane	74-82-8	4,100	75	130	25
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	118	10.0	20.0	50
00228	Sulfate	14808-79-8	31.9	1.5	5.0	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	H131442AA	05/25/2013 04:56	Kevin A Sposito	10
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131491AA	05/29/2013 12:36	Lauren C Temple	2
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131442AA	05/25/2013 04:56	Kevin A Sposito	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C131491AA	05/29/2013 12:36	Lauren C Temple	2
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013 02:14	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013 08:24	Elizabeth J Marin	25
01505	Bromide	EPA 300.0	1	13145655601B	05/25/2013 23:57	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13145655601B	05/30/2013 00:53	Christopher D Meeks	50

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051713-ML04-2 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064394
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/17/2013 10:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56
Reported: 06/20/2013 14:00

-ML42 SDG#: POM64-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00228	Sulfate	EPA 300.0	1	13145655601B	05/25/2013 23:57	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-051713-ML04-7 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064395
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/17/2013 12:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-ML47 SDG#: POM64-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	29	15	25	5
02898	Benzene	71-43-2	0.6 J	0.5	2.5	5
02898	Bromochloromethane	74-97-5	N.D.	0.5	2.5	5
02898	Bromodichloromethane	75-27-4	N.D.	0.5	2.5	5
02898	Bromoform	75-25-2	N.D.	0.5	2.5	5
02898	Bromomethane	74-83-9	N.D.	0.5	2.5	5
02898	2-Butanone	78-93-3	12 J	5.0	25	5
02898	Carbon Disulfide	75-15-0	N.D.	2.0	2.5	5
02898	Carbon Tetrachloride	56-23-5	N.D.	0.5	2.5	5
02898	Chlorobenzene	108-90-7	N.D.	0.5	2.5	5
02898	Chloroethane	75-00-3	0.9 J	0.5	2.5	5
02898	Chloroform	67-66-3	N.D.	0.5	2.5	5
02898	Chloromethane	74-87-3	N.D.	1.0	2.5	5
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	1.0	2.5	5
02898	Dibromochloromethane	124-48-1	N.D.	0.5	2.5	5
02898	1,2-Dibromoethane	106-93-4	N.D.	0.5	2.5	5
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.5	2.5	5
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.5	2.5	5
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	1.7 J	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	N.D.	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	1.2 J	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	220	5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	35	0.5	2.5	5
02898	1,2-Dichloropropane	78-87-5	N.D.	0.5	2.5	5
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.5	2.5	5
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.5	2.5	5
02898	Ethylbenzene	100-41-4	N.D.	0.5	2.5	5
02898	2-Hexanone	591-78-6	13 J	5.0	25	5
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	5.0	25	5
02898	Methylene Chloride	75-09-2	N.D.	1.0	2.5	5
02898	Styrene	100-42-5	N.D.	0.5	2.5	5
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.5	2.5	5
02898	Tetrachloroethene	127-18-4	N.D.	0.5	2.5	5
02898	Toluene	108-88-3	N.D.	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	2.5	5
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.5	2.5	5
02898	Trichloroethene	79-01-6	4.6	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	150	5.0	25	50
02898	Xylene (Total)	1330-20-7	N.D.	0.5	2.5	5
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	5.4	1.0	5.0	1
07105	Ethene	74-85-1	11	1.0	5.0	1
07105	Methane	74-82-8	2,700	30	50	10
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	64.9	4.0	8.0	20

*=This limit was used in the evaluation of the final result

Sample Description: GW-051713-ML04-7 Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064395
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/17/2013 12:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-ML47 SDG#: POM64-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry			EPA 300.0	mg/l	mg/l	
00228	Sulfate	14808-79-8	34.5	1.5	5.0	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	H131442AA	05/25/2013 05:39	Kevin A Sposito	5
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	H131442AA	05/25/2013 06:00	Kevin A Sposito	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131442AA	05/25/2013 05:39	Kevin A Sposito	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	H131442AA	05/25/2013 06:00	Kevin A Sposito	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013 02:32	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013 08:42	Elizabeth J Marin	10
01505	Bromide	EPA 300.0	1	13145655601B	05/26/2013 00:14	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13145655601B	05/30/2013 01:09	Christopher D Meeks	20
00228	Sulfate	EPA 300.0	1	13145655601B	05/26/2013 00:14	Christopher D Meeks	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-051713-EW01 (UPPER) Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064396
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/17/2013 13:02 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-EW01 SDG#: POM64-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.2 J	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.3 J	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	29	1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	17	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	16	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.2 J	0.1	0.5	1
02898	Trichloroethene	79-01-6	20	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	4.3	0.1	0.5	1
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	26	3.0	5.0	1
Wet Chemistry EPA 300.0						
01505	Bromide	24959-67-9	N.D.	0.15	5.0	10
00224	Chloride	16887-00-6	47.9	2.0	4.0	10
00228	Sulfate	14808-79-8	34.3	3.0	10.0	10
SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	N.D.	0.50	1.0	1
The reported result is the average of the following trials:						
	0	mg/l				
	0	mg/l				
	0	mg/l				
	0	mg/l				
SM 4500-S2 D-2000						
00230	Sulfide	18496-25-8	N.D.	0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	H131442AA	05/25/2013 06:22	Kevin A Sposito	1
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131491AA	05/29/2013 12:58	Lauren C Temple	10

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051713-EW01 (UPPER) Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064396
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/17/2013 13:02 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-EW01 SDG#: POM64-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131442AA	05/25/2013	06:22	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C131491AA	05/29/2013	12:58	Lauren C Temple	10
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013	02:50	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13148987131A	05/28/2013	16:19	Clinton M Wilson	10
00224	Chloride	EPA 300.0	1	13148987131A	05/28/2013	16:19	Clinton M Wilson	10
00228	Sulfate	EPA 300.0	1	13148987131A	05/28/2013	16:19	Clinton M Wilson	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13144049502A	05/24/2013	04:17	James S Mathiot	1
00230	Sulfide	SM 4500-S2 D-2000	1	13142023001A	05/22/2013	13:40	Michele L Graham	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051613-IW03 (LOWER) Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064397
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/17/2013 12:20 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-IW3- SDG#: POM64-14BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL purge						
02898	Carbon Tetrachloride	56-23-5	N.D.	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	1.3 J	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	N.D.	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	2.8 J	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	380	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	140	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	N.D.	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	N.D.	1.0	5.0	10
02898	Trichloroethene	79-01-6	28	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	56	1.0	5.0	10
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	1.7 J	1.0	5.0	1
07105	Ethene	74-85-1	3.0 J	1.0	5.0	1
07105	Methane	74-82-8	1,000	15	25	5
Wet Chemistry EPA 300.0						
01505	Bromide	24959-67-9	N.D.	0.075	2.5	5
00224	Chloride	16887-00-6	48.3	2.0	4.0	10
00228	Sulfate	14808-79-8	42.4	1.5	5.0	5
SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	6.9	0.50	1.0	1
The reported result is the average of the following trials:						
	6.821	mg/l				
	6.87	mg/l				
	6.659	mg/l				
	7.121	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	H131442AA	05/25/2013 06:43	Kevin A Sposito	10
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	H131442AA	05/25/2013 07:04	Kevin A Sposito	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131442AA	05/25/2013 06:43	Kevin A Sposito	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	H131442AA	05/25/2013 07:04	Kevin A Sposito	100

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051613-IW03 (LOWER) Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064397
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/17/2013 12:20 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-IW3- SDG#: POM64-14BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013	03:09	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013	09:00	Elizabeth J Marin	5
01505	Bromide	EPA 300.0	1	13148987131A	05/28/2013	15:34	Clinton M Wilson	5
00224	Chloride	EPA 300.0	1	13148987131A	05/30/2013	02:32	Clinton M Wilson	10
00228	Sulfate	EPA 300.0	1	13148987131A	05/28/2013	15:34	Clinton M Wilson	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13144049502B	05/24/2013	04:47	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-051613-IW03 (LOWER) MS Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064398
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/17/2013 12:20 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56
Reported: 06/20/2013 14:00

-IW3- SDG#: POM64-14MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	SW-846	9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	18.0	0.50	1.0	1
	The reported result is the average of the following trials:					
	18.104	mg/l				
	17.926	mg/l				
	17.974	mg/l				
	17.875	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13144049502B	05/24/2013 05:32	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-051613-IW03 (LOWER) MSD Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064399
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/17/2013 12:20 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56
Reported: 06/20/2013 14:00

-IW3- SDG#: POM64-14MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	SW-846	9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	18.1	0.50	1.0	1
	The reported result is the average of the following trials:					
	18.161	mg/l				
	18.037	mg/l				
	18.056	mg/l				
	17.964	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13144049502B	05/24/2013 06:03	James S Mathiot	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: GW-051613-IW03 (LOWER) -D Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064400
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/17/2013 12:20 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-GWI3 SDG#: POM64-15FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	N.D.	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	1.2 J	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	N.D.	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	2.7 J	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	370	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	140	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	N.D.	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	N.D.	1.0	5.0	10
02898	Trichloroethene	79-01-6	28	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	55	1.0	5.0	10
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	1.7 J	1.0	5.0	1
07105	Ethene	74-85-1	3.0 J	1.0	5.0	1
07105	Methane	74-82-8	840	15	25	5
Wet Chemistry EPA 300.0						
01505	Bromide	24959-67-9	N.D.	0.075	2.5	5
00224	Chloride	16887-00-6	46.8	2.0	4.0	10
00228	Sulfate	14808-79-8	42.5	1.5	5.0	5
SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	7.2	0.50	1.0	1
The reported result is the average of the following trials:						
	7.224	mg/l				
	7.111	mg/l				
	7.242	mg/l				
	7.152	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	H131442AA	05/25/2013 07:25	Kevin A Sposito	10
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	H131442AA	05/25/2013 07:47	Kevin A Sposito	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131442AA	05/25/2013 07:25	Kevin A Sposito	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	H131442AA	05/25/2013 07:47	Kevin A Sposito	100

*=This limit was used in the evaluation of the final result

Sample Description: GW-051613-IW03 (LOWER) -D Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064400
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/17/2013 12:20 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

-GWI3 SDG#: POM64-15FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013	03:28	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013	09:19	Elizabeth J Marin	5
01505	Bromide	EPA 300.0	1	13148987131A	05/28/2013	16:34	Clinton M Wilson	5
00224	Chloride	EPA 300.0	1	13148987131A	05/30/2013	03:17	Clinton M Wilson	10
00228	Sulfate	EPA 300.0	1	13148987131A	05/28/2013	16:34	Clinton M Wilson	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13144049502B	05/24/2013	06:49	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: W-051413FB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064401
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/14/2013 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

WFB14 SDG#: POM64-16FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	0.015	0.50	1
00224	Chloride	16887-00-6	N.D.	0.20	0.40	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: W-051413FB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064401
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/14/2013 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

WFB14 SDG#: POM64-16FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
00228	Sulfate	EPA 300.0 14808-79-8	mg/l N.D.	mg/l 0.30	mg/l 1.0	1
00354	Total Organic Carbon (Quad)	SW-846 9060A n.a.	mg/l N.D.	mg/l 0.50	mg/l 1.0	1
	The reported result is the average of the following trials:					
	0	mg/l				
	0	mg/l				
	0	mg/l				
	0	mg/l				
00230	Sulfide	SM 4500-S2 D-2000 18496-25-8	mg/l N.D.	mg/l 0.054	mg/l 0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	H131442AA	05/24/2013 22:49	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131442AA	05/24/2013 22:49	Kevin A Sposito	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013 03:46	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13148987131A	05/28/2013 16:49	Clinton M Wilson	1
00224	Chloride	EPA 300.0	1	13148987131A	05/28/2013 16:49	Clinton M Wilson	1
00228	Sulfate	EPA 300.0	1	13148987131A	05/28/2013 16:49	Clinton M Wilson	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13144049502B	05/24/2013 07:19	James S Mathiot	1
00230	Sulfide	SM 4500-S2 D-2000	1	13142023001A	05/22/2013 13:40	Michele L Graham	1

*=This limit was used in the evaluation of the final result

Sample Description: W-051513FB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064402
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/15/2013 16:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

WFB15 SDG#: POM64-17FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	0.015	0.50	1
00224	Chloride	16887-00-6	N.D.	0.20	0.40	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: W-051513FB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064402
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/15/2013 16:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

WFB15 SDG#: POM64-17FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
00228	Sulfate	EPA 300.0 14808-79-8	mg/l N.D.	mg/l 0.30	mg/l 1.0	1
00354	Total Organic Carbon (Quad)	SW-846 9060A n.a.	mg/l N.D.	mg/l 0.50	mg/l 1.0	1
	The reported result is the average of the following trials:					
	0	mg/l				
	0	mg/l				
	0	mg/l				
	0	mg/l				
00230	Sulfide	SM 4500-S2 D-2000 18496-25-8	mg/l N.D.	mg/l 0.054	mg/l 0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	H131442AA	05/24/2013 23:11	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131442AA	05/24/2013 23:11	Kevin A Sposito	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013 04:05	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13148987131A	05/28/2013 17:33	Clinton M Wilson	1
00224	Chloride	EPA 300.0	1	13148987131A	05/28/2013 17:33	Clinton M Wilson	1
00228	Sulfate	EPA 300.0	1	13148987131A	05/28/2013 17:33	Clinton M Wilson	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13144049502B	05/24/2013 08:03	James S Mathiot	1
00230	Sulfide	SM 4500-S2 D-2000	1	13142023001A	05/22/2013 13:40	Michele L Graham	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: W-051613FB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064403
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/16/2013 16:20 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

WFB16 SDG#: POM64-18FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	0.015	0.50	1
00224	Chloride	16887-00-6	N.D.	0.20	0.40	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: W-051613FB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064403
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/16/2013 16:20 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

WFB16 SDG#: POM64-18FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
00228	Sulfate	14808-79-8	N.D.	0.30	1.0	1
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	N.D.	0.50	1.0	1
	The reported result is the average of the following trials:					
	0	mg/l				
	0	mg/l				
	0	mg/l				
	0	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	H131442AA	05/24/2013 23:32	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131442AA	05/24/2013 23:32	Kevin A Sposito	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013 04:42	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13148987131A	05/28/2013 17:48	Clinton M Wilson	1
00224	Chloride	EPA 300.0	1	13148987131A	05/28/2013 17:48	Clinton M Wilson	1
00228	Sulfate	EPA 300.0	1	13148987131A	05/28/2013 17:48	Clinton M Wilson	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13144049502B	05/24/2013 08:32	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: W-051713FB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064404
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/17/2013 10:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

WFB17 SDG#: POM64-19FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	0.2 J	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1
Wet Chemistry	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	0.015	0.50	1
00224	Chloride	16887-00-6	N.D.	0.20	0.40	1

*=This limit was used in the evaluation of the final result

REVISED

Sample Description: W-051713FB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064404
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/17/2013 10:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

WFB17 SDG#: POM64-19FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
00228	Sulfate	14808-79-8	N.D.	0.30	1.0	1
	SM 4500-S2 D-2000		mg/l	mg/l	mg/l	
00230	Sulfide	18496-25-8	N.D.	0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	H131442AA	05/24/2013 23:54	Kevin A Sposito	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131442AA	05/24/2013 23:54	Kevin A Sposito	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013 05:00	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13148987131A	05/28/2013 18:03	Clinton M Wilson	1
00224	Chloride	EPA 300.0	1	13148987131A	05/28/2013 18:03	Clinton M Wilson	1
00228	Sulfate	EPA 300.0	1	13148987131A	05/28/2013 18:03	Clinton M Wilson	1
00230	Sulfide	SM 4500-S2 D-2000	1	13142023001A	05/22/2013 13:40	Michele L Graham	1

*=This limit was used in the evaluation of the final result

Sample Description: W-051713TB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064405
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/17/2013 10:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

WTB17 SDG#: POM64-20TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1

*=This limit was used in the evaluation of the final result

Sample Description: W-051713TB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7064405
LLI Group # 1391495
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/17/2013 10:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 05/17/2013 19:56

Reported: 06/20/2013 14:00

WTB17 SDG#: POM64-20TB

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	H131442AA	05/25/2013 00:16	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131442AA	05/25/2013 00:16	Kevin A Sposito	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131480004A	05/29/2013 05:19	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 06/20/13 at 02:00 PM

Group Number: 1391495

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: C131431AA	Sample number(s): 7064381-7064383,7064385,7064388,7064390-7064392								
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	105		74-133		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	102		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	103		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	105		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	104		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	103		80-120		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	102		80-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	101		79-127		
Trichloroethene	N.D.	0.1	0.5	ug/l	104		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	88		65-127		
Batch number: C131491AA	Sample number(s): 7064393-7064394,7064396								
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	105	104	74-133	1	30
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	97	101	80-120	3	30
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	101	99	80-127	2	30
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	108	107	80-123	0	30
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	101	101	80-120	0	30
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	102	104	80-120	1	30
Tetrachloroethene	N.D.	0.1	0.5	ug/l	103	104	80-120	0	30
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	101	101	79-127	0	30
Trichloroethene	N.D.	0.1	0.5	ug/l	100	102	80-120	2	30
Vinyl Chloride	N.D.	0.1	0.5	ug/l	105	106	65-127	1	30
Batch number: H131442AA	Sample number(s): 7064386,7064389,7064394-7064397,7064400-7064405								
Acetone	N.D.	3.0	5.0	ug/l	99		73-135		
Benzene	N.D.	0.1	0.5	ug/l	102		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	104		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	100		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	96		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	85		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	104		70-130		
Carbon Disulfide	N.D.	0.4	0.5	ug/l	100		80-128		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	106		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	100		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	88		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	104		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	70		55-135		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	103		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	99		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	98		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	98		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	99		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	98		80-112		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 06/20/13 at 02:00 PM

Group Number: 1391495

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	105		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	106		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	108		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	102		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	103		80-120		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	101		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	91		73-126		
Ethylbenzene	N.D.	0.1	0.5	ug/l	98		80-120		
2-Hexanone	N.D.	1.0	5.0	ug/l	103		80-129		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	104		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	107		80-120		
Styrene	N.D.	0.1	0.5	ug/l	101		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	99		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	100		80-120		
Toluene	N.D.	0.1	0.5	ug/l	98		80-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	105		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	101		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	102		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	78		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	99		80-120		

Batch number: I131491AA	Sample number(s): 7064390
Carbon Tetrachloride	N.D. 0.1 0.5 ug/l 101 74-133
1,1-Dichloroethane	N.D. 0.1 0.5 ug/l 103 80-120
1,2-Dichloroethane	N.D. 0.1 0.5 ug/l 104 80-127
1,1-Dichloroethene	N.D. 0.1 0.5 ug/l 107 80-123
trans-1,2-Dichloroethene	N.D. 0.1 0.5 ug/l 102 80-120
Tetrachloroethene	N.D. 0.1 0.5 ug/l 103 80-120
1,1,1-Trichloroethane	N.D. 0.1 0.5 ug/l 100 79-127
Vinyl Chloride	N.D. 0.1 0.5 ug/l 109 65-127

Batch number: 131480004A	Sample number(s): 7064381-7064383,7064385-7064386,7064388-7064397,7064400-7064405
Ethane	N.D. 1.0 5.0 ug/l 100 80-120
Ethene	N.D. 1.0 5.0 ug/l 98 80-120
Methane	N.D. 3.0 5.0 ug/l 101 80-120

Batch number: 13144049502A	Sample number(s): 7064381-7064383,7064396
Total Organic Carbon (Quad)	N.D. 0.50 1.0 mg/l 99 91-113

Batch number: 13144049502B	Sample number(s): 7064397-7064403
Total Organic Carbon (Quad)	N.D. 0.50 1.0 mg/l 99 91-113

Batch number: 13145655601B	Sample number(s): 7064381-7064382,7064384-7064386,7064388-7064390,7064392-7064395
Bromide	N.D. 0.40 0.50 mg/l 98 90-110
Chloride	N.D. 0.20 0.40 mg/l 98 90-110
Sulfate	N.D. 0.30 1.0 mg/l 99 90-110

Batch number: 13145655601C	Sample number(s): 7064391
Bromide	N.D. 0.40 0.50 mg/l 98 90-110
Chloride	N.D. 0.20 0.40 mg/l 98 90-110
Sulfate	N.D. 0.30 1.0 mg/l 99 90-110

Batch number: 13148987131A	Sample number(s): 7064396-7064397,7064400-7064404
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*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 06/20/13 at 02:00 PM

Group Number: 1391495

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Bromide	N.D.	0.015	0.50	mg/l	99	95	90-110	4	20
Chloride	N.D.	0.20	0.40	mg/l	98	95	90-110	4	20
Sulfate	N.D.	0.30	1.0	mg/l	100	96	90-110	5	20

Batch number: 13142023001A
Sulfide

Sample number(s): 7064385-7064387,7064396,7064401-7064402,7064404
N.D. 0.054 0.16 mg/l 109 90-110

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: C131431AA	Sample number(s): 7064381-7064383,7064385,7064388,7064390-7064392 UNSPK: 7064381								
Carbon Tetrachloride	105	101	81-148	4	30				
1,1-Dichloroethane	95	94	88-136	1	30				
1,2-Dichloroethane	96	93	82-135	3	30				
1,1-Dichloroethene	103	100	83-150	3	30				
cis-1,2-Dichloroethene	72 (2)	76 (2)	82-129	1	30				
trans-1,2-Dichloroethene	94	92	88-127	1	30				
Tetrachloroethene	92	96	75-129	1	30				
1,1,1-Trichloroethane	101	97	85-140	3	30				
Trichloroethene	92	94	85-131	0	30				
Vinyl Chloride	84	91	65-151	5	30				
Batch number: H131442AA	Sample number(s): 7064386,7064389,7064394-7064397,7064400-7064405 UNSPK: P066500								
Acetone	101	99	57-163	2	30				
Benzene	110	112	87-126	2	30				
Bromochloromethane	110	112	82-125	2	30				
Bromodichloromethane	105	110	82-133	5	30				
Bromoform	100	101	60-138	1	30				
Bromomethane	92	91	41-145	1	30				
2-Butanone	110	97	63-146	12	30				
Carbon Disulfide	112	114	84-141	2	30				
Carbon Tetrachloride	117	120	81-148	3	30				
Chlorobenzene	107	109	78-133	2	30				
Chloroethane	93	94	70-139	1	30				
Chloroform	111	115	86-136	3	30				
Chloromethane	73	74	55-152	1	30				
1,2-Dibromo-3-chloropropane	106	95	43-143	11	30				
Dibromochloromethane	103	104	79-125	1	30				
1,2-Dibromoethane	102	105	84-127	2	30				
1,2-Dichlorobenzene	104	105	83-117	1	30				
1,3-Dichlorobenzene	107	109	81-118	2	30				
1,4-Dichlorobenzene	105	106	79-120	2	30				
1,1-Dichloroethane	112	116	88-136	3	30				
1,2-Dichloroethane	108	111	82-135	3	30				
1,1-Dichloroethene	121	125	83-150	3	30				
cis-1,2-Dichloroethene	112	114	82-129	2	30				
trans-1,2-Dichloroethene	115	119	88-127	3	30				
1,2-Dichloropropane	108	111	91-126	3	30				
cis-1,3-Dichloropropene	106	109	74-132	3	30				

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 06/20/13 at 02:00 PM

Group Number: 1391495

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
trans-1,3-Dichloropropene	95	98	71-128	4	30				
Ethylbenzene	107	108	80-140	0	30				
2-Hexanone	100	104	59-169	3	30				
4-Methyl-2-Pentanone	103	105	69-149	3	30				
Methylene Chloride	114	114	84-122	0	30				
Styrene	106	108	63-151	2	30				
1,1,2,2-Tetrachloroethane	99	101	75-131	3	30				
Tetrachloroethene	111	112	75-129	1	30				
Toluene	106	108	83-127	2	30				
1,1,1-Trichloroethane	116	119	85-140	3	30				
1,1,2-Trichloroethane	103	107	85-129	4	30				
Trichloroethene	111	113	85-131	1	30				
Vinyl Chloride	84	85	65-151	1	30				
Xylene (Total)	106	108	81-137	2	30				
Batch number: I131491AA Sample number(s): 7064390 UNSPK: P069132									
Carbon Tetrachloride	105	105	81-148	0	30				
1,1-Dichloroethane	103	103	88-136	0	30				
1,2-Dichloroethane	99	100	82-135	1	30				
1,1-Dichloroethene	111	110	83-150	1	30				
trans-1,2-Dichloroethene	103	104	88-127	1	30				
Tetrachloroethene	115	116	75-129	0	30				
1,1,1-Trichloroethane	102	102	85-140	0	30				
Vinyl Chloride	110	112	65-151	2	30				
Batch number: 131480004A Sample number(s): 7064381-7064383,7064385-7064386,7064388-7064397,7064400-7064405 UNSPK: 7064381									
Ethane	94	86	32-129	9	20				
Ethene	95	88	35-162	8	20				
Methane	94	83	35-157	8	20				
Batch number: 13144049502A Sample number(s): 7064381-7064383,7064396 UNSPK: 7064381									
Total Organic Carbon (Quad)	115	115	63-142	1	20				
Batch number: 13144049502B Sample number(s): 7064397-7064403 UNSPK: 7064397									
Total Organic Carbon (Quad)	111	112	63-142	0	20				
Batch number: 13145655601B Sample number(s): 7064381-7064382,7064384-7064386,7064388-7064390,7064392-7064395 UNSPK: 7064381 BKG: 7064381									
Bromide	99		90-110			N.D.	N.D.	0 (1)	20
Chloride	94		90-110			77.2	78.9	2	20
Sulfate	101		90-110			24.4	24.0	1 (1)	20
Batch number: 13145655601C Sample number(s): 7064391 UNSPK: 7064391 BKG: 7064391									
Bromide	107		90-110			N.D.	N.D.	0 (1)	20
Chloride	108		90-110			30.5	29.4	3	20
Sulfate	108		90-110			25.9	24.8	4 (1)	20
Batch number: 13148987131A Sample number(s): 7064396-7064397,7064400-7064404 UNSPK: 7064397 BKG: 7064397									
Bromide	104		90-110			N.D.	N.D.	0 (1)	20
Chloride	96		90-110			48.3	46.7	4	20
Sulfate	106		90-110			42.4	42.4	0	20

*- Outside of specification

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Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 06/20/13 at 02:00 PM

Group Number: 1391495

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 13142023001A	Sample number(s): 7064385-7064387,7064396,7064401-7064402,7064404 UNSPK: 7064396								
Sulfide	92	84	42-131	8	16	N.D.	N.D.	0 (1)	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles

Batch number: C131431AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7064381	105	102	98	96
7064382	102	101	101	99
7064383	102	99	101	99
7064385	104	100	100	97
7064388	103	101	99	96
7064391	105	101	99	96
7064392	105	103	98	95
Blank	104	103	99	96
LCS	103	101	101	101
MS	102	101	101	99
MSD	102	99	101	99
Limits:	77-114	74-113	77-110	78-110

Analysis Name: GC/MS Volatiles

Batch number: C131491AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7064393	105	100	97	99
7064394	104	99	98	96
Blank	104	102	99	94
LCS	102	101	102	99
LCSD	103	99	102	100
Limits:	77-114	74-113	77-110	78-110

Analysis Name: GC/MS Volatiles

Batch number: H131442AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7064386	102	102	97	97
7064389	103	102	98	99
7064395	103	103	97	98
7064396	104	102	97	98
7064397	103	101	98	98

*- Outside of specification

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Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 06/20/13 at 02:00 PM

Group Number: 1391495

Surrogate Quality Control

7064400	102	101	97	98
7064401	103	102	98	98
7064402	103	101	98	99
7064403	103	102	98	98
7064404	103	100	98	98
7064405	102	102	98	98
Blank	102	102	97	97
LCS	102	100	99	100
MS	101	98	99	101
MSD	103	102	98	100

Limits: 77-114 74-113 77-110 78-110

Analysis Name: GC/MS Volatiles

Batch number: I131491AA

Dibromofluoromethane 1,2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene

7064390	98	103	101	97
Blank	98	107	100	99
LCS	97	103	102	99
MS	98	105	102	100
MSD	97	106	102	99

Limits: 77-114 74-113 77-110 78-110

Analysis Name: Volatile Headspace Hydrocarbon

Batch number: 131480004A

Propene

7064381	92
7064382	90
7064383	82
7064385	78
7064386	73
7064388	73
7064389	86
7064390	89
7064391	100
7064392	82
7064393	78
7064394	92
7064395	76
7064396	91
7064397	92
7064400	93
7064401	82
7064402	92
7064403	93
7064404	96
7064405	91
Blank	92
LCS	100
MS	90
MSD	82

Limits: 42-131

*- Outside of specification

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Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 06/20/13 at 02:00 PM

Group Number: 1391495

Surrogate Quality Control

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
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**Environmental Sample Administration
Receipt Documentation Log** 1391495

Client/Project: DuPont
 Date of Receipt: 5/17/13
 Time of Receipt: 1956
 Source Code: 01

Shipping Container Sealed: YES NO
 Custody Seal Present * : YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT131	1.7	TB	WI	Y	L	
2		2.7					
3		2.2					
4		3.4					
5	-----						
6	-----						

Number of Trip Blanks received NOT listed on chain of custody: 7

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: KAR 2241 Date/Time: 5/17/13 2035

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

June 17, 2013

Project: POM - EISB MONITORING PROGRAM

Submission Date: 06/05/2013
Group Number: 1394754
SDG: POM64
PO Number: LBIO-66380
State of Sample Origin: NJ

Client Sample Description
GW-051613-EW01(UPPER) Groundwater

Lancaster Labs (LLI) #
7081736

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

1 COPY TO Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: GW-051613-EW01 (UPPER) Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7081736
LLI Group # 1394754
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 05/16/2013

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/05/2013 14:20

Reported: 06/17/2013 09:24

EW01U SDG#: POM64-21*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	5.7	0.50	1.0	1
	The reported result is the average of the following trials:					
	5.951	mg/l				
	5.492	mg/l				
	5.841	mg/l				
	5.438	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

This sample was originally submitted to the laboratory on 05/17/13 at 19:56. We received authorization for further testing on 06/05/13.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13165049503A	06/14/2013 03:41	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 06/17/13 at 09:24 AM

Group Number: 1394754

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 13165049503A	Sample number(s): 7081736								
Total Organic Carbon (Quad)	N.D.	0.50	1.0	mg/l	97		91-113		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 13165049503A	Sample number(s): 7081736 UNSPK: P086387								
Total Organic Carbon (Quad)	99	98	63-142	1	20				

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Sample Administration
Receipt Documentation Log

1394754
~~1394495~~ ③ KAM 6/5/13

Client/Project: DuPont
Date of Receipt: 5/17/13
Time of Receipt: 1956
Source Code: 01

Shipping Container Sealed: YES NO
Custody Seal Present * : YES NO
* Custody seal was intact unless otherwise noted in the discrepancy section
Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT131	1.7	TB	WI	Y	L	
2		2.7					
3		2.2					
4		3.4					
5	-----						
6	-----						

Number of Trip Blanks received NOT listed on chain of custody: 7

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: KAM 2241 Date/Time: 5/17/13 2035

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

June 19, 2013

Project: POM - EISB MONITORING PROGRAM

Submittal Date: 06/07/2013
Group Number: 1395650
SDG: POM67
PO Number: LBIO-66380
State of Sample Origin: NJ

Client Sample Description

GW-060413-IW-02(UPPER) Groundwater
W-060413-IW-02(UPPER)-FB Blank Water
W-060413-IW-02(UPPER)-TB Blank Water

Lancaster Labs (LLI) #

7086387
7086388
7086389

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

1 COPY TO Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: GW-060413-IW-02 (UPPER) Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7086387
LLI Group # 1395650
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 06/04/2013 12:43 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/07/2013 17:26

Reported: 06/19/2013 13:45

643I2 SDG#: POM67-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 J	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	14	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	7.2	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	19	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	0.2 J	0.1	0.5	1
02898	Trichloroethene	79-01-6	19	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.4 J	0.1	0.5	1
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1
Wet Chemistry EPA 300.0						
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	26.5	1.0	2.0	5
00228	Sulfate	14808-79-8	37.1	1.5	5.0	5
SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	1.0	0.50	1.0	1
The reported result is the average of the following trials:						
	1.132	mg/l				
	0.982	mg/l				
	1.062	mg/l				
	0.969	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131612AA	06/11/2013 02:02	Kevin A Sposito	1
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I131622AA	06/12/2013 05:55	Kevin A Sposito	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131612AA	06/11/2013 02:02	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I131622AA	06/12/2013 05:55	Kevin A Sposito	10

*=This limit was used in the evaluation of the final result

Sample Description: GW-060413-IW-02 (UPPER) Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7086387
LLI Group # 1395650
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 06/04/2013 12:43 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/07/2013 17:26

Reported: 06/19/2013 13:45

643I2 SDG#: POM67-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131640002A	06/13/2013	15:53	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13159655601B	06/08/2013	23:12	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13159655601B	06/08/2013	23:12	Christopher D Meeks	5
00228	Sulfate	EPA 300.0	1	13159655601B	06/08/2013	23:12	Christopher D Meeks	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13165049503A	06/14/2013	05:05	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: W-060413-IW-02 (UPPER) -FB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7086388
LLI Group # 1395650
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 06/04/2013 17:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/07/2013 17:26

Reported: 06/19/2013 13:45

643F2 SDG#: POM67-02FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	0.40	0.50	1
00224	Chloride	16887-00-6	N.D.	0.20	0.40	1
00228	Sulfate	14808-79-8	N.D.	0.30	1.0	1
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	N.D.	0.50	1.0	1
	The reported result is the average of the following trials:					
	0.111	mg/l				
	0.316	mg/l				
	0.132	mg/l				
	0.292	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131612AA	06/10/2013 23:48	Kevin A Sposito	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131612AA	06/10/2013 23:48	Kevin A Sposito	1
07105	Volatiles Headspace	RSKSOP-175	1	131640002A	06/13/2013 16:12	Elizabeth J Marin	1
	Hydrocarbon	modified					
01505	Bromide	EPA 300.0	1	13159655601B	06/09/2013 00:00	Christopher D Meeks	1

*=This limit was used in the evaluation of the final result

Sample Description: W-060413-IW-02 (UPPER) -FB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7086388
LLI Group # 1395650
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 06/04/2013 17:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/07/2013 17:26

Reported: 06/19/2013 13:45

643F2 SDG#: POM67-02FB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00224	Chloride	EPA 300.0	1	13159655601B	06/09/2013 00:00	Christopher D Meeks	1
00228	Sulfate	EPA 300.0	1	13159655601B	06/09/2013 00:00	Christopher D Meeks	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13165049503A	06/14/2013 06:12	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: W-060413-IW-02 (UPPER) -TB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7086389
LLI Group # 1395650
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 06/04/2013 12:43 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/07/2013 17:26

Reported: 06/19/2013 13:45

643T2 SDG#: POM67-03TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C131612AA	06/11/2013 00:11	Kevin A Sposito	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C131612AA	06/11/2013 00:11	Kevin A Sposito	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131640002A	06/13/2013 16:30	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 06/19/13 at 01:45 PM

Group Number: 1395650

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: C131612AA	Sample number(s): 7086387-7086389								
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	108	108	74-133	1	30
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	99	100	80-120	2	30
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	102	103	80-127	1	30
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	108	107	80-123	0	30
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	104	105	80-120	0	30
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	108	107	80-120	1	30
Tetrachloroethene	N.D.	0.1	0.5	ug/l	106	107	80-120	0	30
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	103	103	79-127	0	30
Trichloroethene	N.D.	0.1	0.5	ug/l	105	107	80-120	1	30
Vinyl Chloride	N.D.	0.1	0.5	ug/l	86	86	65-127	0	30
Batch number: I131622AA	Sample number(s): 7086387								
Tetrachloroethene	N.D.	0.1	0.5	ug/l	97		80-120		
Batch number: 131640002A	Sample number(s): 7086387-7086389								
Ethane	N.D.	1.0	5.0	ug/l	98		80-120		
Ethene	N.D.	1.0	5.0	ug/l	97		80-120		
Methane	N.D.	3.0	5.0	ug/l	100		80-120		
Batch number: 13159655601B	Sample number(s): 7086387-7086388								
Bromide	N.D.	0.40	0.50	mg/l	99		90-110		
Chloride	N.D.	0.20	0.40	mg/l	99		90-110		
Sulfate	N.D.	0.30	1.0	mg/l	99		90-110		
Batch number: 13165049503A	Sample number(s): 7086387-7086388								
Total Organic Carbon (Quad)	N.D.	0.50	1.0	mg/l	97		91-113		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: I131622AA	Sample number(s): 7086387 UNSPK: P087837								
Tetrachloroethene	100	101	75-129	0	30				
Batch number: 131640002A	Sample number(s): 7086387-7086389 UNSPK: P085442								
Ethane	57	59	32-129	2	20				
Ethene	59	60	35-162	1	20				

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 06/19/13 at 01:45 PM

Group Number: 1395650

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Methane	59	60	35-157	3	20				
Batch number: 13159655601B	Sample number(s): 7086387-7086388 UNSPK: 7086387 BKG: 7086387								
Bromide	98		90-110			N.D.	N.D.	0 (1)	20
Chloride	100		90-110			26.5	27.4	3	20
Sulfate	106		90-110			37.1	38.1	2	20
Batch number: 13165049503A	Sample number(s): 7086387-7086388 UNSPK: 7086387								
Total Organic Carbon (Quad)	99	98	63-142	1	20				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles

Batch number: C131612AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7086387	107	103	96	93
7086388	106	102	98	94
7086389	107	103	97	93
Blank	107	104	98	94
LCS	103	100	101	98
LCSD	104	99	101	99
Limits:	77-114	74-113	77-110	78-110

Analysis Name: Volatile Headspace Hydrocarbon

Batch number: 131640002A

	Propene
7086387	60
7086388	58
7086389	87
Blank	100
LCS	101
MS	58
MSD	58
Limits:	42-131

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.



Lancaster Laboratories

Analysis Request / Environmental Services Chain of Custody

1 of 1

For Lancaster Laboratories Use Only

Group No.: 1395050

Sample Nos.: 7080387-89

Acc't: 07032

SF: 178283

SCR No.: 139589

Cooler No.: C23494 **25460**

Cooler Temperature upon receipt: 3.5 °C

Container No.: 1

Facility Name: Pompton Lakes		Project Manager: George Nemeth		Analyses Required										Comments:											
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735		Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)	10/92 SOW List of Volatiles (8260)																			
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																							
2000 Cannonball Road		Release No.:																							
Pompton Lakes NJ 07442		PO Number: LBIO-66380																							
Sampler(s): <u>GINemeth / M. Mislasek</u>																									
Project Name: EISB MONITORING PROGRAM 2013																									
Sample Identification	Date Collected	Time Collected	Matrix	Containers			Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)	10/92 SOW List of Volatiles (8260)													Condition upon receipt:			
				Volume (ml)	Preserv	No.																	intact		
GW- <u>060413-IN-02(upper)</u>	<u>6/4/13</u>	<u>1243</u>	WW	40	HCl	3		X																	
GW- <u>060413-IN-02(upper)</u>	<u>↓</u>	<u>1243</u>	WW	40	HCl	2	X																		
GW-			WW	40	HCl	3																			
GW-			WW	40	HCl	2																			
W- <u>060413-IN-02(upper)-FB</u>	<u>6/4/13</u>	<u>1700</u>	WW	40	HCl	3		X																	
W- <u>060413-IN-02(upper)-FB</u>	<u>↓</u>	<u>1700</u>	WW	40	HCl	2	X																		
W- <u>060413-IN-02(upper)-TB</u>	<u>↓</u>	<u>—</u>	WW	40	HCl	2	X																		
W- <u>060413-IN-02(upper)-TB</u>	<u>↓</u>	<u>—</u>	WW	40	HCl	3	X																		
Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>				Special Instructions: Full Deliverables needed																					
Bottles Relinquished by: <u>Bottle Storage</u>		Date	Time	Bottles Received by: <u>George Nemeth</u>		Date:	Time:																		
Bottles Relinquished by: <u>George Nemeth</u>		Date: <u>6/7/13</u>	Time: <u>1230</u>	Bottles Received by:		Date:	Time:																		
Bottles Relinquished by:		Date:	Time:	Bottles Received by:		Date:	Time:																		
Bottles Relinquished by:		Date:	Time:	Bottles Received by:		Date: <u>6/7/13</u>	Time: <u>1726</u>																		

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Environmental Sample Administration
Receipt Documentation Log

1395650

Client/Project: Dupont Pompton Lakes
 Date of Receipt: 6/7/13
 Time of Receipt: 1726
 Source Code: 01

Shipping Container Sealed: YES NO

Custody Seal Present * : YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	3.5	TB	WI	Y	B	
2			/				
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0 (received 4)

Paperwork Discrepancy/Unpacking Problems:

Only received 4 trip blank vials total

Unpacker Signature/Emp#: [Signature] 2308 Date/Time: 6/7/13 1827

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

June 27, 2013

Project: POM - EISB MONITORING PROGRAM

Submittal Date: 06/15/2013
Group Number: 1397514
SDG: POM70
PO Number: LBIO-66380
State of Sample Origin: NJ

Client Sample Description

GW-061413-EW-01(UPPER) Groundwater
W-061413-EW-01FB Blank Water
W-061413-EW-01TB Blank Water

Lancaster Labs (LLI) #

7095235
7095236
7095237

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

1 COPY TO Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: GW-061413-EW-01 (UPPER) Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7095235
LLI Group # 1397514
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 06/14/2013 14:36 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/15/2013 09:30

Reported: 06/27/2013 10:59

PME01 SDG#: POM70-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	N.D.	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	2.5	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	N.D.	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	4.6	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	630	5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	260	5.0	25	50
02898	Tetrachloroethene	127-18-4	0.9 J	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.5	2.5	5
02898	Trichloroethene	79-01-6	43	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	97	0.5	2.5	5
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	2.3 J	1.0	5.0	1
07105	Ethene	74-85-1	3.7 J	1.0	5.0	1
07105	Methane	74-82-8	910	30	50	10
Wet Chemistry EPA 300.0						
01505	Bromide	24959-67-9	N.D.	2.0	2.5	5
00224	Chloride	16887-00-6	54.1	2.0	4.0	10
00228	Sulfate	14808-79-8	43.9	3.0	10.0	10
SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	17.4	0.50	1.0	1
The reported result is the average of the following trials:						
	17.046	mg/l				
	17.874	mg/l				
	17.319	mg/l				
	17.418	mg/l				
SM 4500-S2 D-2000						
00230	Sulfide	18496-25-8	N.D.	0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	H131711AA	06/20/2013 17:40	Kerri E Legerlotz	5
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	H131711AA	06/20/2013 18:01	Kerri E Legerlotz	50

*=This limit was used in the evaluation of the final result

Sample Description: GW-061413-EW-01 (UPPER) Groundwater
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7095235
LLI Group # 1397514
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 06/14/2013 14:36 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/15/2013 09:30

Reported: 06/27/2013 10:59

PME01 SDG#: POM70-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131711AA	06/20/2013	17:40	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	H131711AA	06/20/2013	18:01	Kerri E Legerlotz	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131710021A	06/21/2013	16:49	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131710021A	06/21/2013	17:07	Elizabeth J Marin	10
01505	Bromide	EPA 300.0	1	13176655901B	06/26/2013	16:36	Christopher D Meeks	5
00224	Chloride	EPA 300.0	1	13176655901B	06/26/2013	02:25	Christopher D Meeks	10
00228	Sulfate	EPA 300.0	1	13176655901B	06/26/2013	02:25	Christopher D Meeks	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13169049501A	06/18/2013	02:20	James S Mathiot	1
00230	Sulfide	SM 4500-S2 D-2000	1	13170023002A	06/19/2013	10:55	Michele L Graham	1

*=This limit was used in the evaluation of the final result

Sample Description: W-061413-EW-01FB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7095236
LLI Group # 1397514
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 06/14/2013 16:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/15/2013 09:30

Reported: 06/27/2013 10:59

PMFB1 SDG#: POM70-02FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	N.D.	0.40	0.50	1
00224	Chloride	16887-00-6	0.91	0.20	0.40	1
00228	Sulfate	14808-79-8	N.D.	0.30	1.0	1
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	N.D.	0.50	1.0	1
	The reported result is the average of the following trials:					
	0	mg/l				
	0	mg/l				
	0	mg/l				
	0	mg/l				
	SM 4500-S2 D-2000		mg/l	mg/l	mg/l	
00230	Sulfide	18496-25-8	N.D.	0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	H131711AA	06/20/2013 17:20	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131711AA	06/20/2013 17:20	Kerri E Legerlotz	1

*=This limit was used in the evaluation of the final result

Sample Description: W-061413-EW-01FB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7095236
LLI Group # 1397514
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 06/14/2013 16:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/15/2013 09:30

Reported: 06/27/2013 10:59

PMFB1 SDG#: POM70-02FB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131710021A	06/21/2013	17:26	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	13176655901B	06/26/2013	03:46	Christopher D Meeks	1
00224	Chloride	EPA 300.0	1	13176655901B	06/26/2013	03:46	Christopher D Meeks	1
00228	Sulfate	EPA 300.0	1	13176655901B	06/26/2013	03:46	Christopher D Meeks	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13169049501A	06/18/2013	03:20	James S Mathiot	1
00230	Sulfide	SM 4500-S2 D-2000	1	13170023002A	06/19/2013	10:55	Michele L Graham	1

*=This limit was used in the evaluation of the final result

Sample Description: W-061413-EW-01TB Blank Water
EISB MONITORING PROGRAM 2013

LLI Sample # WW 7095237
LLI Group # 1397514
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 06/14/2013 14:36 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 06/15/2013 09:30

Reported: 06/27/2013 10:59

PMTB1 SDG#: POM70-03TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	H131711AA	06/20/2013 17:00	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	H131711AA	06/20/2013 17:00	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	131710021A	06/20/2013 19:43	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 06/27/13 at 10:59 AM

Group Number: 1397514

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: H131711AA	Sample number(s): 7095235-7095237								
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	122	115	74-133	6	30
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	115	109	80-120	5	30
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	108	108	80-127	0	30
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	121	117	80-123	4	30
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	117	111	80-120	5	30
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	122*	118	80-120	3	30
Tetrachloroethene	N.D.	0.1	0.5	ug/l	104	99	80-120	5	30
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	118	113	79-127	4	30
Trichloroethene	N.D.	0.1	0.5	ug/l	116	112	80-120	3	30
Vinyl Chloride	N.D.	0.1	0.5	ug/l	90	84	65-127	7	30
Batch number: 131710021A	Sample number(s): 7095235-7095237								
Ethane	N.D.	1.0	5.0	ug/l	98		80-120		
Ethene	N.D.	1.0	5.0	ug/l	98		80-120		
Methane	N.D.	3.0	5.0	ug/l	99		80-120		
Batch number: 13169049501A	Sample number(s): 7095235-7095236								
Total Organic Carbon (Quad)	N.D.	0.50	1.0	mg/l	100		91-113		
Batch number: 13176655901B	Sample number(s): 7095235-7095236								
Bromide	N.D.	0.40	0.50	mg/l	100		90-110		
Chloride	N.D.	0.20	0.40	mg/l	100		90-110		
Sulfate	N.D.	0.30	1.0	mg/l	99		90-110		
Batch number: 13170023002A	Sample number(s): 7095235-7095236								
Sulfide	N.D.	0.054	0.16	mg/l	102		90-110		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 131710021A	Sample number(s): 7095235-7095237 UNSPK: P091613								
Ethane	92	92	32-129	0	20				
Ethene	92	93	35-162	1	20				
Methane	93	93	35-157	1	20				
Batch number: 13169049501A	Sample number(s): 7095235-7095236 UNSPK: 7095235								

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 06/27/13 at 10:59 AM

Group Number: 1397514

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Total Organic Carbon (Quad)	89	84	63-142	2	20				
Batch number: 13176655901B	Sample number(s): 7095235-7095236 UNSPK: 7095235 BKG: 7095235								
Bromide	109		90-110			N.D.	N.D.	0 (1)	20
Chloride	107		90-110			54.1	53.6	1	20
Sulfate	108		90-110			43.9	44.1	0 (1)	20
Batch number: 13170023002A	Sample number(s): 7095235-7095236 UNSPK: P094864 BKG: P094864								
Sulfide	81	83	42-131	2	16	N.D.	N.D.	0 (1)	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles

Batch number: H131711AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7095235	103	99	95	100
7095236	104	100	93	98
7095237	104	101	93	99
Blank	104	101	94	99
LCS	104	102	94	101
LCSD	104	101	95	101
Limits:	77-114	74-113	77-110	78-110

Analysis Name: Volatile Headspace Hydrocarbon

Batch number: 131710021A

	Propene
7095235	52
7095236	55
7095237	87
Blank	88
LCS	84
MS	83
MSD	84
Limits:	42-131

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

For Lancaster Laboratories Use Only

Group No.: 1397514 Sample Nos.: 7095235-37
 Acct: 07032 SF: 178283 SCR No.: 140770 Cooler No.: C23621 25636
 Cooler Temperature upon receipt: 1.2 °C Container No.: 1

Facility Name: Pompton Lakes	Project Manager: George Nemeth	Analyses Required Br- (300.0) Cl- (300.0) S2- (4500 S2 D) SO4 (300.0) TOC Quad (SW-846 9060A)	Comments: Condition upon receipt: <u>In fact</u>
Facility Contact: George Nemeth	Facility Contact Phone No.: 973-492-7735		
Facility Address: Pompton Lakes Works	Job No.: 9267 7720100C WH06 507882		
2000 Cannonball Road	Release No.:		
Pompton Lakes NJ 07442	PO Number: LBIO-66380		
Sampler(s): <u>G. Nemeth / L. Zimmermann</u>			
Project Name: EISB MONITORING PROGRAM 2013			

Sample Identification	Date Collected	Time Collected	Matrix	Containers			Br- (300.0)	Cl- (300.0)	S2- (4500 S2 D)	SO4 (300.0)	TOC Quad (SW-846 9060A)
				Volume (ml)	Preserv	No.					
GW-061413-EW-01(upper)	6/14/13	1436	WW	250	NaOH/ZnAc	1			X		
GW-			WW	40	None	2	X	X		X	
GW-			WW	40	H3PO4	5				X	
GW-			WW	250	NaOH/ZnAc	1			X		
GW-			WW	40	None	2	X	X		X	
GW-			WW	40	H3PO4	5				X	

Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>	Special Instructions: <u>Full Deliverables needed</u>
Bottles Relinquished by: <u>[Signature]</u> Date: <u>6-10-13</u> Time: <u>1300</u>	Bottles Received by: <u>George Nemeth</u> Date: <u>6/11/13</u> Time: <u>2100</u>
Bottles Relinquished by: <u>George Nemeth</u> Date: <u>6/14/13</u> Time: <u>1700</u>	Bottles Received by: _____ Date: _____ Time: _____
Bottles Relinquished by: _____ Date: _____ Time: _____	Bottles Received by: _____ Date: _____ Time: _____
Bottles Relinquished by: _____ Date: _____ Time: _____	Bottles Received by: <u>Pat Yu</u> Date: <u>6/15/13</u> Time: <u>0930</u>

Environmental Sample Administration

Receipt Documentation Log

1397514

Client/Project: DuPont

Shipping Container Sealed: YES NO

Date of Receipt: 6/15/2013

Custody Seal Present * : YES NO

Time of Receipt: 0930

* Custody seal was intact unless otherwise noted in the discrepancy section

Source Code: 50

Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	1.2	TB	WI	Y	B	
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: Pat G 3472

Date/Time: 6/15/2013 1258

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m3	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter
<	less than - The number following the sign is the <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).		
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.		
ppb	parts per billion		
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.		

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL LANCASTER LABORATORIES BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF LANCASTER LABORATORIES AND (B) WHETHER LANCASTER LABORATORIES HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Lancaster Laboratories which includes any conditions that vary from the Standard Terms and Conditions, and Lancaster hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

July 24, 2013

Project: POM - EISB MONITORING PROGRAM

Submission Date: 07/18/2013

Group Number: 1405155

SDG: POM71

PO Number: LBIO-66380

State of Sample Origin: NJ

Client Sample Description

Lancaster Labs (LL) #

GW-071713-EW01(UPPER) Groundwater	7131562
GW-071713-EW01(LOWER) Groundwater	7131563
GW-071713-EW01(LOWER) MS Groundwater	7131564
GW-071713-EW01(LOWER) MSD Groundwater	7131565
GW-071713-ML02-5 Groundwater	7131566
GW-071713-ML02-4 Groundwater	7131567
GW-071713-ML02-4-DUP Groundwater	7131568
GW-071713-ML02-3 Groundwater	7131569
GW-071713-ML02-2 Groundwater	7131570
GW-071713-ML02-7 Groundwater	7131571
W-071713-FB Blank Water	7131572
W-071713-TB Blank Water	7131573

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

1 COPY TO Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: GW-071713-EW01 (UPPER) Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7131562
LL Group # 1405155
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/17/2013 15:15 by MNG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 07/18/2013 09:25
Reported: 07/24/2013 13:23

UEW1- SDG#: POM71-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL purge		ug/l	ug/l	ug/l	
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.2 J	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	17	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	9.8	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	21	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	22	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.6	0.1	0.5	1
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	C132031AA	07/22/2013 14:45	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132031AA	07/22/2013 14:45	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132040005A	07/23/2013 13:13	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-071713-EW01 (LOWER) Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7131563
LL Group # 1405155
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/17/2013 10:00 by MNG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 07/18/2013 09:25
Reported: 07/24/2013 13:23

LEW1- SDG#: POM71-02BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	N.D.	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	3.1 J	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	N.D.	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	3.9 J	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	530	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	200	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	22	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	N.D.	1.0	5.0	10
02898	Trichloroethene	79-01-6	49	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	120	1.0	5.0	10
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	4.8 J	1.0	5.0	1
07105	Ethene	74-85-1	4.9 J	1.0	5.0	1
07105	Methane	74-82-8	900	15	25	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132031AA	07/22/2013 12:54	Kerri E Legerlotz	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132031AA	07/22/2013 14:01	Kerri E Legerlotz	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132031AA	07/22/2013 12:54	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132031AA	07/22/2013 14:01	Kerri E Legerlotz	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132040005A	07/23/2013 13:31	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132040005A	07/23/2013 17:12	Elizabeth J Marin	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-071713-EW01 (LOWER) MS Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7131564
LL Group # 1405155
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/17/2013 10:11 by MNG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 07/18/2013 09:25
Reported: 07/24/2013 13:23

LEW1- SDG#: POM71-02MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	46		1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	47		1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	44		1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	50		1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	570	E	1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	240		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	67		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	45		1.0	5.0	10
02898	Trichloroethene	79-01-6	97		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	170		1.0	5.0	10
GC Miscellaneous		RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	41		1.0	5.0	1
07105	Ethene	74-85-1	43		1.0	5.0	1
07105	Methane	74-82-8	630	E	3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132031AA	07/22/2013 13:16	Kerri E Legerlotz	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132031AA	07/22/2013 13:16	Kerri E Legerlotz	10
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132040005A	07/23/2013 13:50	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-071713-EW01 (LOWER) MSD Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7131565
LL Group # 1405155
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/17/2013 10:12 by MNG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 07/18/2013 09:25
Reported: 07/24/2013 13:23

LEW1- SDG#: POM71-02MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	50		1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	51		1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	48		1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	54		1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	560	E	1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	240		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	71		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	49		1.0	5.0	10
02898	Trichloroethene	79-01-6	100		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	170		1.0	5.0	10
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	42		1.0	5.0	1
07105	Ethene	74-85-1	44		1.0	5.0	1
07105	Methane	74-82-8	640	E	3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132031AA	07/22/2013 13:38	Kerri E Legerlotz	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132031AA	07/22/2013 13:38	Kerri E Legerlotz	10
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132040005A	07/23/2013 14:09	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-071713-ML02-5 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7131566
LL Group # 1405155
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/17/2013 11:00 by MNG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 07/18/2013 09:25
Reported: 07/24/2013 13:23

ML25- SDG#: POM71-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.2 J	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.5	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	53	1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	24	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	12	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	0.2 J	0.1	0.5	1
02898	Trichloroethene	79-01-6	30	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	5.4	0.1	0.5	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132031AA	07/22/2013 15:08	Kerri E Legerlotz	1
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132031AA	07/22/2013 15:30	Kerri E Legerlotz	10
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132031AA	07/22/2013 15:08	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132031AA	07/22/2013 15:30	Kerri E Legerlotz	10

*=This limit was used in the evaluation of the final result

Sample Description: GW-071713-ML02-4 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7131567
LL Group # 1405155
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/17/2013 11:40 by MNG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 07/18/2013 09:25
Reported: 07/24/2013 13:23

ML24- SDG#: POM71-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	N.D.	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	2.9 J	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	N.D.	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	3.2 J	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	510	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	170	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	17	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	N.D.	1.0	5.0	10
02898	Trichloroethene	79-01-6	44	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	110	1.0	5.0	10
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	4.2 J	1.0	5.0	1
07105	Ethene	74-85-1	4.6 J	1.0	5.0	1
07105	Methane	74-82-8	840	15	25	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132031AA	07/22/2013 15:53	Kerri E Legerlotz	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132031AA	07/22/2013 16:15	Kerri E Legerlotz	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132031AA	07/22/2013 15:53	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132031AA	07/22/2013 16:15	Kerri E Legerlotz	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132040005A	07/23/2013 14:27	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132040005A	07/23/2013 17:30	Elizabeth J Marin	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-071713-ML02-4-DUP Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7131568
LL Group # 1405155
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/17/2013 11:40 by MNG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 07/18/2013 09:25
Reported: 07/24/2013 13:23

ML24D SDG#: POM71-05FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Detection	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
		SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	N.D.		1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	1.8 J		1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	N.D.		1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	1.5 J		1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	300		10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	81		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	6.1		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	N.D.		1.0	5.0	10
02898	Trichloroethene	79-01-6	22		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	61		1.0	5.0	10
GC Miscellaneous							
		RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	4.6 J		1.0	5.0	1
07105	Ethene	74-85-1	5.0 J		1.0	5.0	1
07105	Methane	74-82-8	830		15	25	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132031AA	07/22/2013 16:37	Kerri E Legerlotz	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132031AA	07/22/2013 16:59	Kerri E Legerlotz	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132031AA	07/22/2013 16:37	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132031AA	07/22/2013 16:59	Kerri E Legerlotz	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132040005A	07/23/2013 14:46	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132040005A	07/23/2013 17:49	Elizabeth J Marin	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-071713-ML02-3 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7131569
LL Group # 1405155
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/17/2013 12:35 by MNG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 07/18/2013 09:25
Reported: 07/24/2013 13:23

ML23- SDG#: POM71-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Detection	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
		SW-846 8260B 25mL	ug/l	ug/l		ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	N.D.		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	2.7		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	N.D.		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	2.8		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	470		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	160		5.0	25	50
02898	Tetrachloroethene	127-18-4	6.3		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.5	2.5	5
02898	Trichloroethene	79-01-6	33		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	99		0.5	2.5	5
GC Miscellaneous							
		RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	3.0	J	1.0	5.0	1
07105	Ethene	74-85-1	3.6	J	1.0	5.0	1
07105	Methane	74-82-8	460		3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132031AA	07/22/2013 17:21	Kerri E Legerlotz	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132031AA	07/22/2013 17:44	Kerri E Legerlotz	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132031AA	07/22/2013 17:21	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132031AA	07/22/2013 17:44	Kerri E Legerlotz	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132040005A	07/23/2013 15:04	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-071713-ML02-2 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7131570
LL Group # 1405155
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/17/2013 13:30 by MNG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 07/18/2013 09:25
Reported: 07/24/2013 13:23

ML22- SDG#: POM71-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	N.D.		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	1.0 J		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	N.D.		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	1.2 J		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	190		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	65		0.5	2.5	5
02898	Tetrachloroethene	127-18-4	7.3		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	N.D.		0.5	2.5	5
02898	Trichloroethene	79-01-6	16		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	33		0.5	2.5	5
GC Miscellaneous		RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.1 J		1.0	5.0	1
07105	Ethene	74-85-1	1.1 J		1.0	5.0	1
07105	Methane	74-82-8	120		3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132031AA	07/22/2013 18:06	Kerri E Legerlotz	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132031AA	07/22/2013 18:28	Kerri E Legerlotz	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132031AA	07/22/2013 18:06	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132031AA	07/22/2013 18:28	Kerri E Legerlotz	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132040005A	07/23/2013 15:42	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-071713-ML02-7 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7131571
LL Group # 1405155
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/17/2013 14:20 by MNG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 07/18/2013 09:25
Reported: 07/24/2013 13:23

ML27- SDG#: POM71-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	8.0 J	6.0	10	2
02898	Benzene	71-43-2	0.2 J	0.2	1.0	2
02898	Bromochloromethane	74-97-5	N.D.	0.2	1.0	2
02898	Bromodichloromethane	75-27-4	N.D.	0.2	1.0	2
02898	Bromoform	75-25-2	N.D.	0.2	1.0	2
02898	Bromomethane	74-83-9	N.D.	0.2	1.0	2
02898	2-Butanone	78-93-3	N.D.	2.0	10	2
02898	Carbon Disulfide	75-15-0	N.D.	0.8	1.0	2
02898	Carbon Tetrachloride	56-23-5	N.D.	0.2	1.0	2
02898	Chlorobenzene	108-90-7	N.D.	0.2	1.0	2
02898	Chloroethane	75-00-3	0.5 J	0.2	1.0	2
02898	Chloroform	67-66-3	N.D.	0.2	1.0	2
02898	Chloromethane	74-87-3	N.D.	0.4	1.0	2
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	1.0	2
02898	Dibromochloromethane	124-48-1	N.D.	0.2	1.0	2
02898	1,2-Dibromoethane	106-93-4	N.D.	0.2	1.0	2
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.2	1.0	2
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.2	1.0	2
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.2	1.0	2
02898	1,1-Dichloroethane	75-34-3	1.4	0.2	1.0	2
02898	1,2-Dichloroethane	107-06-2	N.D.	0.2	1.0	2
02898	1,1-Dichloroethene	75-35-4	1.0	0.2	1.0	2
02898	cis-1,2-Dichloroethene	156-59-2	150	2.0	10	20
02898	trans-1,2-Dichloroethene	156-60-5	45	2.0	10	20
02898	1,2-Dichloropropane	78-87-5	N.D.	0.2	1.0	2
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.2	1.0	2
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.2	1.0	2
02898	Ethylbenzene	100-41-4	N.D.	0.2	1.0	2
02898	2-Hexanone	591-78-6	N.D.	2.0	10	2
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	2.0	10	2
02898	Methylene Chloride	75-09-2	N.D.	0.4	1.0	2
02898	Styrene	100-42-5	N.D.	0.2	1.0	2
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.2	1.0	2
02898	Tetrachloroethene	127-18-4	1.1	0.2	1.0	2
02898	Toluene	108-88-3	N.D.	0.2	1.0	2
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.2	1.0	2
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.2	1.0	2
02898	Trichloroethene	79-01-6	8.8	0.2	1.0	2
02898	Vinyl Chloride	75-01-4	70	2.0	10	20
02898	Xylene (Total)	1330-20-7	N.D.	0.2	1.0	2
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	2.5 J	1.0	5.0	1
07105	Ethene	74-85-1	6.5	1.0	5.0	1
07105	Methane	74-82-8	960	30	50	10

*=This limit was used in the evaluation of the final result

Sample Description: GW-071713-ML02-7 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7131571
LL Group # 1405155
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/17/2013 14:20 by MNG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 07/18/2013 09:25

Reported: 07/24/2013 13:23

ML27- SDG#: POM71-08

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	C132031AA	07/22/2013 18:50	Kerri E Legerlotz	2
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	C132031AA	07/22/2013 19:12	Kerri E Legerlotz	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132031AA	07/22/2013 18:50	Kerri E Legerlotz	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132031AA	07/22/2013 19:12	Kerri E Legerlotz	20
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132040005A	07/23/2013 16:00	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132040005A	07/23/2013 18:07	Elizabeth J Marin	10

*=This limit was used in the evaluation of the final result

Sample Description: W-071713-FB Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7131572
LL Group # 1405155
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/17/2013 12:00 by MNG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 07/18/2013 09:25
Reported: 07/24/2013 13:23

FB17- SDG#: POM71-09FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1

*=This limit was used in the evaluation of the final result

Sample Description: W-071713-FB Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7131572
LL Group # 1405155
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/17/2013 12:00 by MNG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 07/18/2013 09:25
Reported: 07/24/2013 13:23

FB17- SDG#: POM71-09FB

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	C132031AA	07/22/2013 14:23	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132031AA	07/22/2013 14:23	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132040005A	07/23/2013 16:19	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: W-071713-TB Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7131573
LL Group # 1405155
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/17/2013 10:00 by MNG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 07/18/2013 09:25
Reported: 07/24/2013 13:23

TB17- SDG#: POM71-10TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l	
	purge					
02898	Acetone	67-64-1	N.D.	3.0	5.0	1
02898	Benzene	71-43-2	N.D.	0.1	0.5	1
02898	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
02898	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
02898	Bromoform	75-25-2	N.D.	0.1	0.5	1
02898	Bromomethane	74-83-9	N.D.	0.1	0.5	1
02898	2-Butanone	78-93-3	N.D.	1.0	5.0	1
02898	Carbon Disulfide	75-15-0	N.D.	0.4	0.5	1
02898	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
02898	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
02898	Chloroethane	75-00-3	N.D.	0.1	0.5	1
02898	Chloroform	67-66-3	N.D.	0.1	0.5	1
02898	Chloromethane	74-87-3	N.D.	0.2	0.5	1
02898	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.2	0.5	1
02898	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
02898	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
02898	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
02898	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
02898	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
02898	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
02898	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
02898	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
02898	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
02898	2-Hexanone	591-78-6	N.D.	1.0	5.0	1
02898	4-Methyl-2-Pentanone	108-10-1	N.D.	1.0	5.0	1
02898	Methylene Chloride	75-09-2	N.D.	0.2	0.5	1
02898	Styrene	100-42-5	N.D.	0.1	0.5	1
02898	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
02898	Toluene	108-88-3	N.D.	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1
02898	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
02898	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
02898	Xylene (Total)	1330-20-7	N.D.	0.1	0.5	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	N.D.	1.0	5.0	1
07105	Ethene	74-85-1	N.D.	1.0	5.0	1
07105	Methane	74-82-8	N.D.	3.0	5.0	1

*=This limit was used in the evaluation of the final result

Sample Description: W-071713-TB Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7131573
LL Group # 1405155
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/17/2013 10:00 by MNG

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 07/18/2013 09:25
Reported: 07/24/2013 13:23

TB17- SDG#: POM71-10TB*

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	C132031AA	07/22/2013 12:31	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132031AA	07/22/2013 12:31	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132040005A	07/23/2013 16:38	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/24/13 at 01:23 PM

Group Number: 1405155

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: C132031AA Sample number(s): 7131562-7131573									
Acetone	N.D.	3.0	5.0	ug/l	102		73-135		
Benzene	N.D.	0.1	0.5	ug/l	103		80-120		
Bromochloromethane	N.D.	0.1	0.5	ug/l	107		80-125		
Bromodichloromethane	N.D.	0.1	0.5	ug/l	101		80-120		
Bromoform	N.D.	0.1	0.5	ug/l	95		63-132		
Bromomethane	N.D.	0.1	0.5	ug/l	104		38-146		
2-Butanone	N.D.	1.0	5.0	ug/l	112		70-130		
Carbon Disulfide	N.D.	0.4	0.5	ug/l	99		80-128		
Carbon Tetrachloride	N.D.	0.1	0.5	ug/l	106		74-133		
Chlorobenzene	N.D.	0.1	0.5	ug/l	104		80-120		
Chloroethane	N.D.	0.1	0.5	ug/l	104		67-124		
Chloroform	N.D.	0.1	0.5	ug/l	105		80-120		
Chloromethane	N.D.	0.2	0.5	ug/l	98		55-135		
1,2-Dibromo-3-chloropropane	N.D.	0.2	0.5	ug/l	106		57-141		
Dibromochloromethane	N.D.	0.1	0.5	ug/l	98		80-126		
1,2-Dibromoethane	N.D.	0.1	0.5	ug/l	102		80-120		
1,2-Dichlorobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
1,3-Dichlorobenzene	N.D.	0.1	0.5	ug/l	103		80-120		
1,4-Dichlorobenzene	N.D.	0.1	0.5	ug/l	102		80-112		
1,1-Dichloroethane	N.D.	0.1	0.5	ug/l	102		80-120		
1,2-Dichloroethane	N.D.	0.1	0.5	ug/l	104		80-127		
1,1-Dichloroethene	N.D.	0.1	0.5	ug/l	106		80-123		
cis-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	105		80-120		
trans-1,2-Dichloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
1,2-Dichloropropane	N.D.	0.1	0.5	ug/l	105		80-120		
cis-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	102		74-120		
trans-1,3-Dichloropropene	N.D.	0.1	0.5	ug/l	98		73-126		
Ethylbenzene	N.D.	0.1	0.5	ug/l	101		80-120		
2-Hexanone	N.D.	1.0	5.0	ug/l	95		80-129		
4-Methyl-2-Pentanone	N.D.	1.0	5.0	ug/l	96		69-135		
Methylene Chloride	N.D.	0.2	0.5	ug/l	102		80-120		
Styrene	N.D.	0.1	0.5	ug/l	101		80-120		
1,1,2,2-Tetrachloroethane	N.D.	0.1	0.5	ug/l	103		80-125		
Tetrachloroethene	N.D.	0.1	0.5	ug/l	102		80-120		
Toluene	N.D.	0.1	0.5	ug/l	103		80-120		
1,1,1-Trichloroethane	N.D.	0.1	0.5	ug/l	104		79-127		
1,1,2-Trichloroethane	N.D.	0.1	0.5	ug/l	103		80-120		
Trichloroethene	N.D.	0.1	0.5	ug/l	108		80-120		
Vinyl Chloride	N.D.	0.1	0.5	ug/l	106		65-127		
Xylene (Total)	N.D.	0.1	0.5	ug/l	101		80-120		
Batch number: 132040005A Sample number(s): 7131562-7131565, 7131567-7131573									
Ethane	N.D.	1.0	5.0	ug/l	96		80-120		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/24/13 at 01:23 PM

Group Number: 1405155

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Ethene	N.D.	1.0	5.0	ug/l	96		80-120		
Methane	N.D.	3.0	5.0	ug/l	99		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: C132031AA Sample number(s): 7131562-7131573 UNSPK: 7131563									
Acetone	95	111	57-163	16	30				
Benzene	90	98	87-126	8	30				
Bromochloromethane	95	102	82-125	7	30				
Bromodichloromethane	84	92	82-133	9	30				
Bromoform	77	85	60-138	10	30				
Bromomethane	100	103	41-145	4	30				
2-Butanone	105	124	63-146	17	30				
Carbon Disulfide	86	93	84-141	9	30				
Carbon Tetrachloride	93	100	81-148	7	30				
Chlorobenzene	90	99	78-133	9	30				
Chloroethane	99	102	70-139	3	30				
Chloroform	91	98	86-136	8	30				
Chloromethane	93	97	55-152	4	30				
1,2-Dibromo-3-chloropropane	91	113	43-143	22	30				
Dibromochloromethane	82	90	79-125	10	30				
1,2-Dibromoethane	87	94	84-127	8	30				
1,2-Dichlorobenzene	88	96	83-117	9	30				
1,3-Dichlorobenzene	88	97	81-118	9	30				
1,4-Dichlorobenzene	89	96	79-120	8	30				
1,1-Dichloroethane	88	96	88-136	8	30				
1,2-Dichloroethane	88	96	82-135	8	30				
1,1-Dichloroethene	93	101	83-150	7	30				
cis-1,2-Dichloroethene	85 (2)	73 (2)	82-129	1	30				
trans-1,2-Dichloroethene	91	93	88-127	0	30				
1,2-Dichloropropane	90*	97	91-126	8	30				
cis-1,3-Dichloropropene	85	94	74-132	10	30				
trans-1,3-Dichloropropene	81	89	71-128	10	30				
Ethylbenzene	88	96	80-140	9	30				
2-Hexanone	83	90	59-169	8	30				
4-Methyl-2-Pentanone	82	89	69-149	8	30				
Methylene Chloride	87	94	84-122	8	30				
Styrene	87	95	63-151	9	30				
1,1,2,2-Tetrachloroethane	85	93	75-131	9	30				
Tetrachloroethene	91	99	75-129	6	30				
Toluene	90	98	83-127	8	30				
1,1,1-Trichloroethane	90	98	85-140	9	30				
1,1,2-Trichloroethane	88	95	85-129	8	30				
Trichloroethene	96	104	85-131	4	30				
Vinyl Chloride	102	103	65-151	0	30				
Xylene (Total)	87	95	81-137	9	30				

Batch number: 132040005A Sample number(s): 7131562-7131565,7131567-7131573 UNSPK: 7131563

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/24/13 at 01:23 PM

Group Number: 1405155

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Ethane	59	61	32-129	3	20				
Ethene	62	64	35-162	3	20				
Methane	-465 (2)	-451 (2)	35-157	1	20				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles

Batch number: C132031AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7131562	99	99	99	98
7131563	99	98	99	98
7131564	100	99	99	99
7131565	99	99	100	99
7131566	99	96	99	98
7131567	100	98	98	98
7131568	99	96	98	97
7131569	100	97	99	98
7131570	99	99	99	97
7131571	100	99	99	97
7131572	99	99	99	99
7131573	99	99	99	98
Blank	99	98	99	98
LCS	99	98	99	97
MS	100	99	99	99
MSD	99	99	100	99
Limits:	77-114	74-113	77-110	78-110

Analysis Name: Volatile Headspace Hydrocarbon

Batch number: 132040005A

Propene

7131562	63
7131563	59
7131564	59
7131565	61
7131567	58
7131568	58
7131569	58
7131570	56
7131571	50
7131572	58
7131573	63
Blank	97

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 07/24/13 at 01:23 PM

Group Number: 1405155

Surrogate Quality Control

LCS	101
MS	59
MSD	61

Limits: 42-131

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



Lancaster Laboratories

Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only

Group No.: 140543

Sample Nos.: 7131562-23
7131374-84

Acc't: 07032 1405155

SCR No.: 139588

Cooler No. 21148

25466

Cooler Temperature upon receipt: 1.2 °C

Container No.: _____

CMC
7/18/13

Facility Name: Pompton Lakes		Project Manager: George Nemeth		Analyses Required METHANE, ETHANE, ETHYLENE (P&X-175) POM SITE LIST OF VOLATILES (8260) 10/92 SOW LIST OF VOLATILES (8260)				Comments: <p style="text-align: center; font-size: 2em;">Intact</p> Condition upon receipt:											
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735																	
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																	
2000 Cannonball Road		Release No.:																	
Pompton Lakes NJ 07442		PO Number:																	
Sampler(s): <u>M. NG / R. HYATT</u>		Project Name: EISB MONITORING PROGRAM 2013																	
Sample Identification	Date Collected	Time Collected	Matrix	Containers			X	X											
				Volume (ml)	Preserv	No.													
GW- 071713 - FWD1 (UPPER)	7/17/13	1515	WW	40 1000	HCl None	5	X	X											
GW-			WW	1000	None	1													
GW- (LOWER)			WW	1000	None	1													
GW 071713 - EWD1 (UPPER)	7/17/13	1000	WW	40	HCl	6	X	X											
GW 071713 - EWD1 (LOWER) MS	7/17/13	1011	WW	40	HCl	6	X	X											
GW 071713 - EWD1 (LOWER) MSD	7/17/13	1012	WW	40	HCl	6	X	X											
GW- 071713 - MLO2-5	7/17/13	1100	WW	40	HCl	3		X											
GW- 071713 - MLO2-4	7/17/13	1140	WW	40	HCl	10	X	X											- Dup
GW- 071713 - MLO2-3	7/17/13	1235	WW	40	HCl	5	X	X											
GW 071713 - MLO2-2	7/17/13	1330	WW	40	HCl	5	X	X											
GW 071713 - MLO2-7	7/17/13	1420	WW	40	HCl	5	X	X											
Turnaround Time Requested (please circle): <u>Normal</u> Rush Number of days: _____							Special Instructions:												
Bottles Relinquished by: <u>Bottle Storage</u>		Date: <u>5/17/13</u>	Time: <u>15:15</u>	Bottles Received by: <u>[Signature]</u>		Date: <u>5/17/13</u>	Time: <u>15:15</u>												
Bottles Relinquished by: <u>[Signature]</u>		Date: <u>7/17/13</u>	Time: <u>16:05</u>	Bottles Received by: <u>[Signature]</u>		Date:	Time:												
Bottles Relinquished by:		Date:	Time:	Bottles Received by:		Date:	Time:												
Bottles Relinquished by:		Date:	Time:	Bottles Received by: <u>Branchy Barclay</u>		Date: <u>7-18-13</u>	Time: <u>9:25</u>												

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2800

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

For Lancaster Laboratories Use Only

Group No.: 1405113

Sample Nos.: 7131374-84

Acc't: 07032

SF: 178283

SCR No.: 140878

Cooler No.: 23434

25649

Cocler Temperature upon receipt: 1.2 °C

Container No.: 1

*one (3)
7/18/13*

7131562-73

Facility Name: Pompton Lakes		Project Manager: George Nemeth		Analyses Required										Comments:					
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735		(300.0) METALS, ET/HANES, ET/MS (654-175) 10/92 SOW LIST OF VOLATILES (6260)										Intact Condition upon receipt:					
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																	
2000 Cannonball Road		Release No.:																	
Pompton Lakes NJ 07442		PO Number: LBIO-66380																	
Sampler(s): <u>MNG/RHH/TT</u>		Project Name: EISB MONITORING PROGRAM 2013																	
Sample Identification	Date Collected	Time Collected	Matrix	Containers			Br. (300.0)												
				Volume (ml)	Preserv	No.													
GW			WW	40	None	2	X												
<u>W-071713-FB</u>	<u>7/17/13</u>	<u>1200</u>	<u>WW</u>	<u>40</u>	<u>HCl</u>	<u>15</u>	<u>X</u>	<u>X</u>											
<u>W-071713-TB</u>	<u>7/17/13</u>	<u>-</u>	<u>WW</u>	<u>40</u>	<u>HCl</u>	<u>15</u>	<u>X</u>	<u>X</u>											
Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>				Special Instructions: Full Deliverables needed															
Bottles Relinquished by: <u>SDebra</u>		Date: <u>7/11/13</u>	Time: <u>14:30</u>	Bottles Received by:		Date:	Time:												
Bottles Relinquished by: <u>Paul Z</u>		Date: <u>7/17/13</u>	Time: <u>16:05</u>	Bottles Received by:		Date:	Time:												
Bottles Relinquished by:		Date:	Time:	Bottles Received by:		Date:	Time:												
Bottles Relinquished by:		Date:	Time:	Bottles Received by: <u>Burmelly Barclay</u>		Date: <u>7/18/13</u>	Time: <u>9:25</u>												

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers

Environmental Sample Administration
Receipt Documentation Log

1405155
G-1405113
@mc 7/18/13

Client/Project: Dupont
Date of Receipt: 7.18.13
Time of Receipt: 925
Source Code: 50-1

Shipping Container Sealed: YES NO
Custody Seal Present * : YES NO
* Custody seal was intact unless otherwise noted in the discrepancy section
Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	D1121	1.2	TB	WI	Y	B	
2	/						
3	/						
4	/						
5	/						
6	/						

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

GW 071713-EW01 Lower Time = 1010
Rec 6 vials for FB
Rec 4 vials for TB

Unpacker Signature/Emp#: Buanchy Barclay 2299 Date/Time: 7.18.13 1336

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

- A** TIC is a possible aldol-condensation product
- B** Analyte was also detected in the blank
- C** Pesticide result confirmed by GC/MS
- D** Compound quantitated on a diluted sample
- E** Concentration exceeds the calibration range of the instrument
- N** Presumptive evidence of a compound (TICs only)
- P** Concentration difference between primary and confirmation columns $>25\%$
- U** Compound was not detected
- X,Y,Z** Defined in case narrative

Inorganic Qualifiers

- B** Value is $<$ CRDL, but \geq IDL
- E** Estimated due to interference
- M** Duplicate injection precision not met
- N** Spike sample not within control limits
- S** Method of standard additions (MSA) used for calculation
- U** Compound was not detected
- W** Post digestion spike out of control limits
- *** Duplicate analysis not within control limits
- +** Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

August 20, 2013

Project: POM - EISB MONITORING PROGRAM

Submission Date: 08/02/2013

Group Number: 1408989

SDG: POM72

PO Number: LBIO-66380

State of Sample Origin: NJ

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
GW-073113-ML02-1 Groundwater	7149554
GW-073113-ML02-5 Groundwater	7149555
GW-073113-ML02-6 Groundwater	7149556
GW-080213-EW01-UPPER Groundwater	7149557
GW-080113-EW01-LOWER Groundwater	7149558
GW-080113-ML04-4 Groundwater	7149559
GW-080113-ML04-4 MS Groundwater	7149560
GW-080113-ML04-4 MSD Groundwater	7149561
GW-080113-ML04-3 Groundwater	7149562
GW-073113-ML04-1 Groundwater	7149563
GW-073113-ML04-5 Groundwater	7149564
GW-073113-ML04-6 Groundwater	7149565
GW-080113-ML04-4-D Groundwater	7149566
GW-080113-ML04-2 Groundwater	7149567
GW-080113-ML04-7 Groundwater	7149568
GW-080213-ML02-7 Groundwater	7149569
GW-080113-ML02-2 Groundwater	7149570
GW-080113-ML02-4 Groundwater	7149571
GW-080113-ML02-3 Groundwater	7149572
W-080113-FB-ML02-2 Blank Water	7149573
W-080213-FB-ML02-7 Blank Water	7149574
W-073113-FB-ML02-1 Blank Water	7149575
W-080213-TB-ML02-7 Blank Water	7149576
W-080213-TB-ML02-1 Blank Water	7149577

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

1 COPY TO Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: GW-073113-ML02-1 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7149554
LL Group # 1408989
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/31/2013 12:36 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

ML021 SDG#: POM72-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.3 J		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.4 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	35		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	17		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	23		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.3 J		0.1	0.5	1
02898	Trichloroethene	79-01-6	15		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	8.1		0.1	0.5	1
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	2.7		0.50	1.0	1
	The reported result is the average of the following trials:						
	2.679	mg/l					
	2.727	mg/l					
	2.721	mg/l					
	2.561	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132171AA	08/05/2013 13:53	Kerri E Legerlotz	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 18:57	Kerri E Legerlotz	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132171AA	08/05/2013 13:53	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132181AA	08/06/2013 18:57	Kerri E Legerlotz	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13218049503A	08/06/2013 02:26	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-073113-ML02-5 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7149555
LL Group # 1408989
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/31/2013 15:32 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

ML025 SDG#: POM72-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.2 J		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.5		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	43		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	19		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	34		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	0.2 J		0.1	0.5	1
02898	Trichloroethene	79-01-6	44		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	1.7		0.1	0.5	1
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	1.5		0.50	1.0	1
	The reported result is the average of the following trials:						
	1.484	mg/l					
	1.517	mg/l					
	1.612	mg/l					
	1.582	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132171AA	08/05/2013 14:16	Kerri E Legerlotz	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 19:19	Kerri E Legerlotz	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132171AA	08/05/2013 14:16	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132181AA	08/06/2013 19:19	Kerri E Legerlotz	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13218049503A	08/06/2013 02:56	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-073113-ML02-6 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7149556
LL Group # 1408989
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/31/2013 13:45 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

ML026 SDG#: POM72-03

CAT No.	Analysis Name	CAS Number	As Received Result	Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.3 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	22		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	15		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	23		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	22		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	0.9		0.1	0.5	1
Wet Chemistry SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	0.51 J		0.50	1.0	1
The reported result is the average of the following trials:							
	0.529	mg/l					
	0.538	mg/l					
	0.512	mg/l					
	0.442	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132171AA	08/05/2013 14:38	Kerri E Legerlotz	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 19:42	Kerri E Legerlotz	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132171AA	08/05/2013 14:38	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132181AA	08/06/2013 19:42	Kerri E Legerlotz	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13218049503A	08/06/2013 03:41	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: **GW-080213-EW01-UPPER Groundwater**
EISB MONITORING PROGRAM 2013

LL Sample # **WW 7149557**
LL Group # **1408989**
Account # **07032**

Project Name: **POM - EISB MONITORING PROGRAM**

Collected: 08/02/2013 10:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

EW1UP SDG#: POM72-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.2 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	20		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	13		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	21		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	0.1 J		0.1	0.5	1
02898	Trichloroethene	79-01-6	21		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	0.8		0.1	0.5	1
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1
Wet Chemistry SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	0.50 U		0.50	1.0	1
The reported result is the average of the following trials:							
	0.184	mg/l					
	0.052	mg/l					
	0.051	mg/l					
	0.044	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132171AA	08/05/2013 15:00	Kerri E Legerlotz	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 20:04	Kerri E Legerlotz	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132171AA	08/05/2013 15:00	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132181AA	08/06/2013 20:04	Kerri E Legerlotz	10
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/07/2013 21:15	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13218049503A	08/06/2013 04:10	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: **GW-080113-EW01-LOWER Groundwater**
EISB MONITORING PROGRAM 2013

LL Sample # **WW 7149558**
LL Group # **1408989**
Account # **07032**

Project Name: **POM - EISB MONITORING PROGRAM**

Collected: 08/01/2013 16:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

EW1LW SDG#: POM72-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.5 U	ug/l	ug/l	5
02898	1,1-Dichloroethane	75-34-3	3.1 U	ug/l	ug/l	5
02898	1,2-Dichloroethane	107-06-2	0.5 U	ug/l	ug/l	5
02898	1,1-Dichloroethene	75-35-4	3.7	ug/l	ug/l	5
02898	cis-1,2-Dichloroethene	156-59-2	550	ug/l	ug/l	50
02898	trans-1,2-Dichloroethene	156-60-5	200	ug/l	ug/l	50
02898	Tetrachloroethene	127-18-4	21	ug/l	ug/l	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U	ug/l	ug/l	5
02898	Trichloroethene	79-01-6	51	ug/l	ug/l	5
02898	Vinyl Chloride	75-01-4	120	ug/l	ug/l	5
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	6.2	ug/l	ug/l	1
07105	Ethene	74-85-1	6.5	ug/l	ug/l	1
07105	Methane	74-82-8	1,000	ug/l	ug/l	10
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	5.4	mg/l	mg/l	1
The reported result is the average of the following trials:						
	5.296	mg/l				
	5.399	mg/l				
	5.421	mg/l				
	5.311	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132171AA	08/05/2013 15:23	Kerri E Legerlotz	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132171AA	08/05/2013 15:45	Kerri E Legerlotz	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132171AA	08/05/2013 15:23	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132171AA	08/05/2013 15:45	Kerri E Legerlotz	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/07/2013 21:33	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/08/2013 13:15	Elizabeth J Marin	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13218049503A	08/06/2013 04:41	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: **GW-080113-ML04-4 Groundwater**
EISB MONITORING PROGRAM 2013

LL Sample # **WW 7149559**
LL Group # **1408989**
Account # **07032**

Project Name: **POM - EISB MONITORING PROGRAM**

Collected: 08/01/2013 10:50 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

ML044 SDG#: POM72-06BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.5 U	ug/l	ug/l	5
02898	1,1-Dichloroethane	75-34-3	2.3 J	ug/l	ug/l	5
02898	1,2-Dichloroethane	107-06-2	0.5 U	ug/l	ug/l	5
02898	1,1-Dichloroethene	75-35-4	2.7	ug/l	ug/l	5
02898	cis-1,2-Dichloroethene	156-59-2	350	ug/l	ug/l	50
02898	trans-1,2-Dichloroethene	156-60-5	83	ug/l	ug/l	5
02898	Tetrachloroethene	127-18-4	35	ug/l	ug/l	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U	ug/l	ug/l	5
02898	Trichloroethene	79-01-6	91	ug/l	ug/l	5
02898	Vinyl Chloride	75-01-4	92	ug/l	ug/l	5
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	4.6 J	ug/l	ug/l	1
07105	Ethene	74-85-1	5.1	ug/l	ug/l	1
07105	Methane	74-82-8	670	ug/l	ug/l	5
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	3.6	mg/l	mg/l	1
The reported result is the average of the following trials:						
	3.668	mg/l				
	3.484	mg/l				
	3.799	mg/l				
	3.518	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132171AA	08/05/2013 16:07	Kerri E Legerlotz	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132171AA	08/05/2013 17:14	Kerri E Legerlotz	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132171AA	08/05/2013 16:07	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132171AA	08/05/2013 17:14	Kerri E Legerlotz	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/07/2013 21:52	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/08/2013 13:33	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13218049503A	08/06/2013 05:26	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-080113-ML04-4 MS Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7149560
LL Group # 1408989
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/01/2013 10:50 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

ML044 SDG#: POM72-06MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	28	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	27	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	25	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	29	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	380	E 0.5	2.5	5
02898	trans-1,2-Dichloroethene	156-60-5	110	0.5	2.5	5
02898	Tetrachloroethene	127-18-4	65	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	27	0.5	2.5	5
02898	Trichloroethene	79-01-6	120	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	120	0.5	2.5	5
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	59	1.0	5.0	1
07105	Ethene	74-85-1	64	1.0	5.0	1
07105	Methane	74-82-8	590	E 3.0	5.0	1
Wet Chemistry						
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	14.6	0.50	1.0	1
	The reported result is the average of the following trials:					
	14.98	mg/l				
	14.563	mg/l				
	14.671	mg/l				
	14.279	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132171AA	08/05/2013 16:30	Kerri E Legerlotz	5
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132171AA	08/05/2013 16:30	Kerri E Legerlotz	5
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/07/2013 22:10	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13218049503A	08/06/2013 05:57	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-080113-ML04-4 MSD Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7149561
LL Group # 1408989
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/01/2013 10:50 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

ML044 SDG#: POM72-06MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	28	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	27	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	25	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	29	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	380 E	0.5	2.5	5
02898	trans-1,2-Dichloroethene	156-60-5	110	0.5	2.5	5
02898	Tetrachloroethene	127-18-4	65	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	27	0.5	2.5	5
02898	Trichloroethene	79-01-6	120	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	120	0.5	2.5	5
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	59	1.0	5.0	1
07105	Ethene	74-85-1	64	1.0	5.0	1
07105	Methane	74-82-8	560 E	3.0	5.0	1
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	14.7	0.50	1.0	1
The reported result is the average of the following trials:						
	14.977	mg/l				
	14.23	mg/l				
	14.872	mg/l				
	14.576	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132171AA	08/05/2013 16:52	Kerri E Legerlotz	5
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132171AA	08/05/2013 16:52	Kerri E Legerlotz	5
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/07/2013 22:28	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13218049503A	08/06/2013 06:44	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: **GW-080113-ML04-3 Groundwater**
EISB MONITORING PROGRAM 2013

LL Sample # **WW 7149562**
LL Group # **1408989**
Account # **07032**

Project Name: **POM - EISB MONITORING PROGRAM**

Collected: 08/01/2013 11:55 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

ML043 SDG#: POM72-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.5 U	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	2.5 J	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	3.2	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	400	5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	140	5.0	25	50
02898	Tetrachloroethene	127-18-4	3.4	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	2.5	5
02898	Trichloroethene	79-01-6	72	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	88	0.5	2.5	5
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	3.9 J	1.0	5.0	1
07105	Ethene	74-85-1	3.8 J	1.0	5.0	1
07105	Methane	74-82-8	460	3.0	5.0	1
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	4.6	0.50	1.0	1
The reported result is the average of the following trials:						
	4.851	mg/l				
	4.397	mg/l				
	4.744	mg/l				
	4.436	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132171AA	08/05/2013 17:36	Kerri E Legerlotz	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132171AA	08/05/2013 17:59	Kerri E Legerlotz	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132171AA	08/05/2013 17:36	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132171AA	08/05/2013 17:59	Kerri E Legerlotz	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/07/2013 22:47	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13218049503A	08/06/2013 07:14	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-073113-ML04-1 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7149563
LL Group # 1408989
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/31/2013 12:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

ML041 SDG#: POM72-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.3 J		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.4 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	43		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	19		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	21		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	0.3 J		0.1	0.5	1
02898	Trichloroethene	79-01-6	20		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	8.9		0.1	0.5	1
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	0.50 U		0.50	1.0	1
	The reported result is the average of the following trials:						
	0	mg/l					
	0	mg/l					
	0	mg/l					
	0	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132171AA	08/05/2013 18:21	Kerri E Legerlotz	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132201AA	08/08/2013 12:30	Jason M Long	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132171AA	08/05/2013 18:21	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132201AA	08/08/2013 12:30	Jason M Long	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13218049503A	08/06/2013 08:00	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-073113-ML04-5 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7149564
LL Group # 1408989
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/31/2013 15:20 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

ML045 SDG#: POM72-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.4 J		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.7		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	61		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	22		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	17		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	32		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	12		0.1	0.5	1
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	2.3		0.50	1.0	1
	The reported result is the average of the following trials:						
	2.326	mg/l					
	2.323	mg/l					
	2.327	mg/l					
	2.245	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132171AA	08/05/2013 18:42	Kerri E Legerlotz	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132201AA	08/08/2013 12:51	Jason M Long	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132171AA	08/05/2013 18:42	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132201AA	08/08/2013 12:51	Jason M Long	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13218049503A	08/06/2013 08:30	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-073113-ML04-6 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7149565
LL Group # 1408989
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/31/2013 15:35 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

ML046 SDG#: POM72-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 J		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.4 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	31		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	18		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	24		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	23		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	1.3		0.1	0.5	1
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	1.5		0.50	1.0	1
	The reported result is the average of the following trials:						
	1.546	mg/l					
	1.453	mg/l					
	1.408	mg/l					
	1.435	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132171AA	08/05/2013 19:05	Kerri E Legerlotz	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132201AA	08/08/2013 13:13	Jason M Long	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132171AA	08/05/2013 19:05	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132201AA	08/08/2013 13:13	Jason M Long	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13218049503A	08/06/2013 09:15	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: **GW-080113-ML04-4-D Groundwater**
EISB MONITORING PROGRAM 2013

LL Sample # **WW 7149566**
LL Group # **1408989**
Account # **07032**

Project Name: **POM - EISB MONITORING PROGRAM**

Collected: 08/01/2013 10:50 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

ML04D SDG#: POM72-11FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.5 U	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	2.4 J	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	2.7	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	340	5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	85	0.5	2.5	5
02898	Tetrachloroethene	127-18-4	36	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	2.5	5
02898	Trichloroethene	79-01-6	91	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	95	0.5	2.5	5
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	4.6 J	1.0	5.0	1
07105	Ethene	74-85-1	5.1	1.0	5.0	1
07105	Methane	74-82-8	680	15	25	5
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	3.8	0.50	1.0	1
The reported result is the average of the following trials:						
	4.041	mg/l				
	3.681	mg/l				
	3.95	mg/l				
	3.694	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132171AA	08/05/2013 19:27	Kerri E Legerlotz	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132171AA	08/05/2013 19:49	Kerri E Legerlotz	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132171AA	08/05/2013 19:27	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132171AA	08/05/2013 19:49	Kerri E Legerlotz	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/07/2013 23:05	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/08/2013 13:51	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13219049502A	08/07/2013 02:46	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: **GW-080113-ML04-2 Groundwater**
EISB MONITORING PROGRAM 2013

LL Sample # **WW 7149567**
LL Group # **1408989**
Account # **07032**

Project Name: **POM - EISB MONITORING PROGRAM**

Collected: 08/01/2013 14:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

ML042 SDG#: POM72-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	7.0	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	7.7	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	1,300	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	430	10	50	100
02898	Tetrachloroethene	127-18-4	1.0 U	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U	1.0	5.0	10
02898	Trichloroethene	79-01-6	33	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	280	10	50	100
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	11	1.0	5.0	1
07105	Ethene	74-85-1	16	1.0	5.0	1
07105	Methane	74-82-8	1,700	60	100	20
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	7.9	0.50	1.0	1
The reported result is the average of the following trials:						
	7.85	mg/l				
	7.779	mg/l				
	7.904	mg/l				
	7.923	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 14:09	Kerri E Legerlotz	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 14:31	Kerri E Legerlotz	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132181AA	08/06/2013 14:09	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132181AA	08/06/2013 14:31	Kerri E Legerlotz	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/07/2013 23:24	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/08/2013 14:09	Elizabeth J Marin	20
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13219049502A	08/07/2013 03:20	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: **GW-080113-ML04-7 Groundwater**
EISB MONITORING PROGRAM 2013

LL Sample # **WW 7149568**
LL Group # **1408989**
Account # **07032**

Project Name: **POM - EISB MONITORING PROGRAM**

Collected: 08/01/2013 15:40 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

ML047 SDG#: POM72-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.2 U		0.2	1.0	2
02898	1,1-Dichloroethane	75-34-3	1.7		0.2	1.0	2
02898	1,2-Dichloroethane	107-06-2	0.2 U		0.2	1.0	2
02898	1,1-Dichloroethene	75-35-4	0.7 J		0.2	1.0	2
02898	cis-1,2-Dichloroethene	156-59-2	100		2.0	10	20
02898	trans-1,2-Dichloroethene	156-60-5	6.3		0.2	1.0	2
02898	Tetrachloroethene	127-18-4	0.2 U		0.2	1.0	2
02898	1,1,1-Trichloroethane	71-55-6	0.2 U		0.2	1.0	2
02898	Trichloroethene	79-01-6	0.4 J		0.2	1.0	2
02898	Vinyl Chloride	75-01-4	170		2.0	10	20
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	5.7		1.0	5.0	1
07105	Ethene	74-85-1	12		1.0	5.0	1
07105	Methane	74-82-8	2,400		60	100	20
Wet Chemistry SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	16.1		0.50	1.0	1
The reported result is the average of the following trials:							
	16.17	mg/l					
	15.654	mg/l					
	16.843	mg/l					
	15.56	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 14:53	Kerri E Legerlotz	2
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 15:16	Kerri E Legerlotz	20
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132181AA	08/06/2013 14:53	Kerri E Legerlotz	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132181AA	08/06/2013 15:16	Kerri E Legerlotz	20
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/08/2013 00:01	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/08/2013 14:27	Elizabeth J Marin	20
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13219049502A	08/07/2013 04:10	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: **GW-080213-ML02-7 Groundwater**
EISB MONITORING PROGRAM 2013

LL Sample # **WW 7149569**
LL Group # **1408989**
Account # **07032**

Project Name: **POM - EISB MONITORING PROGRAM**

Collected: 08/02/2013 10:22 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

ML027 SDG#: POM72-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	0.5 U	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	1.1 J	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	0.5 U	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	72	0.5	2.5	5
02898	trans-1,2-Dichloroethene	156-60-5	3.1	0.5	2.5	5
02898	Tetrachloroethene	127-18-4	0.5 U	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	2.5	5
02898	Trichloroethene	79-01-6	0.5 U	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	120	5.0	25	50
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	4.8 J	1.0	5.0	1
07105	Ethene	74-85-1	18	1.0	5.0	1
07105	Methane	74-82-8	2,500	60	100	20
Wet Chemistry						
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	26.0	0.50	1.0	1
	The reported result is the average of the following trials:					
	26.591	mg/l				
	24.967	mg/l				
	27.158	mg/l				
	25.175	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 15:37	Kerri E Legerlotz	5
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 16:00	Kerri E Legerlotz	50
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132181AA	08/06/2013 15:37	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132181AA	08/06/2013 16:00	Kerri E Legerlotz	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/08/2013 00:19	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/08/2013 14:45	Elizabeth J Marin	20
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13219049502A	08/07/2013 05:01	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-080113-ML02-2 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7149570
LL Group # 1408989
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/01/2013 15:18 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

ML022 SDG#: POM72-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.2 U	ug/l	ug/l	2
02898	1,1-Dichloroethane	75-34-3	2.2 U	ug/l	ug/l	2
02898	1,2-Dichloroethane	107-06-2	0.2 U	ug/l	ug/l	2
02898	1,1-Dichloroethene	75-35-4	2.9	ug/l	ug/l	2
02898	cis-1,2-Dichloroethene	156-59-2	370	ug/l	ug/l	20
02898	trans-1,2-Dichloroethene	156-60-5	140	ug/l	ug/l	20
02898	Tetrachloroethene	127-18-4	14	ug/l	ug/l	2
02898	1,1,1-Trichloroethane	71-55-6	0.2 U	ug/l	ug/l	2
02898	Trichloroethene	79-01-6	36	ug/l	ug/l	2
02898	Vinyl Chloride	75-01-4	80	ug/l	ug/l	20
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	4.0 J	ug/l	ug/l	1
07105	Ethene	74-85-1	4.5 J	ug/l	ug/l	1
07105	Methane	74-82-8	420	ug/l	ug/l	1
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	48.7	mg/l	mg/l	1
The reported result is the average of the following trials:						
	50.647	mg/l				
	47.919	mg/l				
	49.118	mg/l				
	47.195	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 16:22	Kerri E Legerlotz	2
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 16:44	Kerri E Legerlotz	20
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132181AA	08/06/2013 16:22	Kerri E Legerlotz	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132181AA	08/06/2013 16:44	Kerri E Legerlotz	20
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/08/2013 00:37	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13219049502A	08/07/2013 05:51	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: **GW-080113-ML02-4 Groundwater**
EISB MONITORING PROGRAM 2013

LL Sample # **WW 7149571**
LL Group # **1408989**
Account # **07032**

Project Name: **POM - EISB MONITORING PROGRAM**

Collected: 08/01/2013 11:06 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

ML024 SDG#: POM72-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	0.5 U	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	3.0	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	3.7	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	530	5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	200	5.0	25	50
02898	Tetrachloroethene	127-18-4	24	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	2.5	5
02898	Trichloroethene	79-01-6	53	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	120	0.5	2.5	5
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	5.5	1.0	5.0	1
07105	Ethene	74-85-1	6.5	1.0	5.0	1
07105	Methane	74-82-8	720	15	25	5
Wet Chemistry						
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	24.6	0.50	1.0	1
	The reported result is the average of the following trials:					
	25.366	mg/l				
	24.196	mg/l				
	25.07	mg/l				
	23.931	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 17:06	Kerri E Legerlotz	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 17:28	Kerri E Legerlotz	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132181AA	08/06/2013 17:06	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132181AA	08/06/2013 17:28	Kerri E Legerlotz	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/08/2013 00:56	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/08/2013 15:03	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13219049502A	08/07/2013 06:25	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-080113-ML02-3 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7149572
LL Group # 1408989
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/01/2013 12:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

ML023 SDG#: POM72-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	0.5 U	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	3.0	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	3.6	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	520	5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	190	5.0	25	50
02898	Tetrachloroethene	127-18-4	17	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	2.5	5
02898	Trichloroethene	79-01-6	49	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	120	0.5	2.5	5
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	5.9	1.0	5.0	1
07105	Ethene	74-85-1	6.7	1.0	5.0	1
07105	Methane	74-82-8	800	15	25	5
Wet Chemistry						
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	47.1	0.50	1.0	1
	The reported result is the average of the following trials:					
	47.27	mg/l				
	46.052	mg/l				
	48.187	mg/l				
	46.95	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 17:50	Kerri E Legerlotz	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 18:12	Kerri E Legerlotz	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132181AA	08/06/2013 17:50	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132181AA	08/06/2013 18:12	Kerri E Legerlotz	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/08/2013 01:15	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/08/2013 15:22	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13219049502A	08/07/2013 07:00	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: W-080113-FB-ML02-2 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7149573
LL Group # 1408989
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/01/2013 16:35 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

F8122 SDG#: POM72-18FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U	ug/l	ug/l	1
02898	1,1-Dichloroethane	75-34-3	0.1 U	ug/l	ug/l	1
02898	1,2-Dichloroethane	107-06-2	0.1 U	ug/l	ug/l	1
02898	1,1-Dichloroethene	75-35-4	0.1 U	ug/l	ug/l	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U	ug/l	ug/l	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U	ug/l	ug/l	1
02898	Tetrachloroethene	127-18-4	0.1 U	ug/l	ug/l	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U	ug/l	ug/l	1
02898	Trichloroethene	79-01-6	0.1 U	ug/l	ug/l	1
02898	Vinyl Chloride	75-01-4	0.1 U	ug/l	ug/l	1
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	1.0 U	ug/l	ug/l	1
07105	Ethene	74-85-1	1.0 U	ug/l	ug/l	1
07105	Methane	74-82-8	3.0 U	ug/l	ug/l	1
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	0.50 U	mg/l	mg/l	1
The reported result is the average of the following trials:						
	0.429	mg/l				
	0.453	mg/l				
	0.229	mg/l				
	0.309	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 12:18	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132181AA	08/06/2013 12:18	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/08/2013 01:33	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13219049502A	08/07/2013 07:51	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: W-080213-FB-ML02-7 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7149574
LL Group # 1408989
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/02/2013 12:44 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

F8227 SDG#: POM72-19FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	0.1 U	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U	0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U	0.1	0.5	1
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U	1.0	5.0	1
07105	Ethene	74-85-1	1.0 U	1.0	5.0	1
07105	Methane	74-82-8	3.0 U	3.0	5.0	1
Wet Chemistry						
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	0.50 U	0.50	1.0	1
	The reported result is the average of the following trials:					
	0.498	mg/l				
	0.349	mg/l				
	0.204	mg/l				
	0.225	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 12:40	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132181AA	08/06/2013 12:40	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/08/2013 01:51	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13219049502A	08/07/2013 08:25	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: W-073113-FB-ML02-1 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7149575
LL Group # 1408989
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 07/31/2013 17:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

F7312 SDG#: POM72-20FB

CAT No.	Analysis Name	CAS Number	As Received Result	Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	0.50 U		0.50	1.0	1
	The reported result is the average of the following trials:						
	0.13	mg/l					
	0.277	mg/l					
	0.34	mg/l					
	0.387	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 13:03	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132181AA	08/06/2013 13:03	Kerri E Legerlotz	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13219049502A	08/07/2013 09:17	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: W-080213-TB-ML02-7 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7149576
LL Group # 1408989
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/02/2013 10:22 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

T8227 SDG#: POM72-21TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 13:25	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132181AA	08/06/2013 13:25	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/08/2013 02:10	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: W-080213-TB-ML02-1 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7149577
LL Group # 1408989
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/02/2013 10:22 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/02/2013 19:11
Reported: 08/20/2013 16:38

T8221 SDG#: POM72-22TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
		SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC Miscellaneous							
		RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132181AA	08/06/2013 13:47	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132181AA	08/06/2013 13:47	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132190030A	08/08/2013 02:28	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 08/20/13 at 04:38 PM

Group Number: 1408989

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: C132171AA Sample number(s): 7149554-7149566									
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	108		74-133		
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	98		80-120		
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	104		80-127		
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	100		80-123		
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	103		80-120		
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	106		80-120		
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	102		80-120		
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	104		79-127		
Trichloroethene	0.1 U	0.1	0.5	ug/l	106		80-120		
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	94		65-127		
Batch number: C132181AA Sample number(s): 7149554-7149557,7149567-7149577									
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	112	107	74-133	5	30
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	99	97	80-120	3	30
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	107	104	80-127	3	30
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	105	101	80-123	4	30
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	104	102	80-120	2	30
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	108	105	80-120	3	30
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	105	103	80-120	2	30
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	107	103	79-127	4	30
Trichloroethene	0.1 U	0.1	0.5	ug/l	107	103	80-120	4	30
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	88	87	65-127	2	30
Batch number: G132201AA Sample number(s): 7149563-7149565									
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	101	110	80-120	9	30
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	104	112	80-120	7	30
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	108	117	80-120	8	30
Trichloroethene	0.1 U	0.1	0.5	ug/l	104	114	80-120	9	30
Batch number: 132190030A Sample number(s): 7149557-7149562,7149566-7149574,7149576-7149577									
Ethane	1.0 U	1.0	5.0	ug/l	101		80-120		
Ethene	1.0 U	1.0	5.0	ug/l	101		80-120		
Methane	3.0 U	3.0	5.0	ug/l	105		80-120		
Batch number: 13218049503A Sample number(s): 7149554-7149565									
Total Organic Carbon (Quad)	0.50 U	0.50	1.0	mg/l	106		91-113		
Batch number: 13219049502A Sample number(s): 7149566-7149575									
Total Organic Carbon (Quad)	0.50 U	0.50	1.0	mg/l	101		91-113		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 08/20/13 at 04:38 PM

Group Number: 1408989

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: C132171AA	Sample number(s): 7149554-7149566 UNSPK: 7149559								
Carbon Tetrachloride	113	111	81-148	1	30				
1,1-Dichloroethane	97	97	88-136	0	30				
1,2-Dichloroethane	100	100	82-135	1	30				
1,1-Dichloroethene	105	106	83-150	0	30				
cis-1,2-Dichloroethene	102 (2)	112 (2)	82-129	1	30				
trans-1,2-Dichloroethene	118	117	88-127	0	30				
Tetrachloroethene	118	117	75-129	1	30				
1,1,1-Trichloroethane	107	106	85-140	1	30				
Trichloroethene	118	119	85-131	0	30				
Vinyl Chloride	111	128	65-151	4	30				
Batch number: 132190030A	Sample number(s): 7149557-7149562,7149566-7149574,7149576-7149577 UNSPK: 7149559								
Ethane	90	90	32-129	1	20				
Ethene	96	95	35-162	1	20				
Methane	-129 (2)	-191 (2)	35-157	6	20				
Batch number: 13218049503A	Sample number(s): 7149554-7149565 UNSPK: 7149559								
Total Organic Carbon (Quad)	110	110	63-142	0	20				
Batch number: 13219049502A	Sample number(s): 7149566-7149575 UNSPK: 7149568								
Total Organic Carbon (Quad)	94	90	63-142	2	20				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles
Batch number: C132171AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7149554	104	96	96	94
7149555	103	98	97	94
7149556	105	99	97	95
7149557	104	98	97	95
7149558	103	97	98	95
7149559	103	97	97	94
7149560	102	95	99	97
7149561	101	96	98	97
7149562	103	97	98	95
7149563	103	98	97	94
7149564	102	96	97	95
7149565	103	98	98	95
7149566	104	98	98	95
Blank	104	100	97	95
LCS	102	97	98	97

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 08/20/13 at 04:38 PM

Group Number: 1408989

Surrogate Quality Control

MS	102	95	99	97
MSD	101	96	98	97
Limits:	77-114	74-113	77-110	78-110

Analysis Name: GC/MS Volatiles
Batch number: C132181AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7149567	103	98	97	94
7149568	102	96	98	95
7149569	102	95	98	95
7149570	103	97	98	93
7149571	104	99	98	95
7149572	104	97	97	93
7149573	102	98	98	94
7149574	103	96	97	93
7149575	104	99	98	95
7149576	105	100	97	93
7149577	104	99	96	94
Blank	104	99	97	94
LCS	103	98	99	98
LCSD	102	97	98	97
Limits:	77-114	74-113	77-110	78-110

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 132190030A
Propene

7149557	85
7149558	82
7149559	92
7149560	89
7149561	87
7149562	91
7149566	90
7149567	88
7149568	81
7149569	88
7149570	95
7149571	96
7149572	91
7149573	97
7149574	95
7149576	95
7149577	102
Blank	100
LCS	104
MS	89
MSD	87
Limits:	42-131

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

For Lancaster Laboratories Use Only

Group No.: 1408989 Sample No.: 7149554-773435
 Acct: 07032 SF: 178283 SCR No.: 142894 Cooler No.: 26196
 Cooler Temperature upon receipt: 2.6-2.9 °C Container No.: 12

Facility Name: Pompton Lakes		Project Manager: George Nemeth		Analyses Required										Comments:								
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735		TOC Quad (SW-846 9060A) Methane, Ethane, Ethene (RSK-175) POM Site List of Volatiles (8260) 10/92 SOW List of Volatiles (8260)																		
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																				
2000 Cannonball Road		Release No.:																				
Pompton Lakes NJ 07442		PO Number: LBIO-66380																				
Sampler(s): <u>G. Nemeth / C. Weaver</u>		Project Name: EISB MONITORING PROGRAM 2013																				
Sample Identification	Date Collected	Time Collected	Matrix	Containers			TOC	Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)	10/92 SOW List of Volatiles (8260)											Condition upon receipt:	
				Volume (ml)	Preserv	No.																
GW-073113-MLO2-1	1236	7/31/13	WW	40	H3PO4	5	X															Intact
GW-073113-MLO2-1	7/31/13	1236	WW	40	HCl	3		X														
GW-			WW	40	HCl	2																
GW-073113-MLO2-5	7/31/13	1532	WW	40	H3PO4	5	X															
GW-073113-MLO2-5	↓	↓	WW	40	HCl	3		X														
GW-673			WW	40	HCl	2																
GW-073113-MLO2-6	7/31/13	1345	WW	40	H3PO4	5	X															
GW-073113-MLO2-6	↓	↓	WW	40	HCl	3		X														
GW-080213-EW-01-Upper	8/2/13	1030	WW	40	HCl	2		X														
GW-080213-EW-01-Upper	↓	↓	WW	40	H3PO4	5	X															
GW-080213-EW-01-Upper	↓	↓	WW	40	HCl	3		X														
Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>							Special Instructions: Full Deliverables needed															
Bottles Relinquished by: <u>George Nemeth</u>		Date: <u>8/2/13</u>	Time: <u>1340</u>	Bottles Received by: <u>[Signature]</u>		Date: <u>8/2/13</u>	Time: <u>14:16</u>															
Bottles Relinquished by: <u>[Signature]</u>		Date: <u>8/2/13</u>	Time: <u>19:11</u>	Bottles Received by: <u>[Signature]</u>		Date: <u>8/2/13</u>	Time: <u>19:11</u>															
Bottles Relinquished by: <u>[Signature]</u>		Date: <u>8/2/13</u>	Time: <u>19:11</u>	Bottles Received by: <u>[Signature]</u>		Date: <u>8/2/13</u>	Time: <u>19:11</u>															

Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only

Group No.: 14089189 Sample Nos.: 7149534-77

Acc't: 07032 SF: 178283 SCR No.: 142894 Cooler No.: 22435 26196

Cooler Temperature upon receipt: _____ °C Container No: _____

Facility Name: Pompton Lakes		Project Manager: George Nemeth			Analyses Required										Comments:										
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735			TOC Quad (SW-846 9060A)	Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)	10/92 SOW List of Volatiles (8260)																	
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																							
2000 Cannonball Road		Release No.:																							
Pompton Lakes NJ 07442		PO Number: LBIO-66380																							
Sampler(s): <u>G. Nemeth / C. Weaver</u>																									
Project Name: EISB MONITORING PROGRAM 2013																									
Sample Identification	Date Collected	Time Collected	Matrix	Containers			TOC Quad (SW-846 9060A)	Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)	10/92 SOW List of Volatiles (8260)											Condition upon receipt:				
				Volume (ml)	Preserv	No.																			
GW-073113-ML02-1	7/31/13	1236	WW	40	H3PO4	5	X																		
GW-073113-ML02-1	7/31/13	226	WW	40	HCl	3		X																	
GW-			WW	40	HCl	2																			
GW-073113-ML02-5	7/31/13	1532	WW	40	H3PO4	5	X																		
GW-073113-ML02-5	✓	✓	WW	40	HCl	3		X																	
GW-673			WW	40	HCl	2																			
GW-073113-ML02-6	7/31/13	1345	WW	40	H3PO4	5	X																		
GW-073113-ML02-6	✓	✓	WW	40	HCl	3		X																	
GW-080213-EN01-Upper	8/2/13	1030	WW	40	HCl	2		X																	
GW-080213-EN01-Upper	✓	✓	WW	40	H3PO4	5	X																		
GW-080213-EN01-Upper	✓	✓	WW		HCl	3		X																	
Turnaround Time Requested (please circle):		Standard		RUSH		Number of days: <u>8</u>		Special Instructions: Full Deliverables needed																	
Bottles Relinquished by: <u>George Nemeth</u>		Date: <u>8/2/13</u>		Time: <u>1340</u>		Bottles Received by: <u>[Signature]</u>		Date: <u>8/2/13</u>		Time: <u>19:26</u>															
Bottles Relinquished by:		Date:		Time:		Bottles Received by:		Date:		Time:															
Bottles Relinquished by:		Date:		Time:		Bottles Received by:		Date:		Time:															
Bottles Relinquished by:		Date:		Time:		Bottles Received by:		Date:		Time:															

Environmental Sample Administration *1408989*
 Receipt Documentation Log

Client/Project: Dugout Pumphkin Lakes
 Date of Receipt: 8/2/13
 Time of Receipt: 1911
 Source Code: 01

Shipping Container Sealed: YES NO
 Custody Seal Present * : YES NO
 * Custody seal was intact unless otherwise noted in the discrepancy section
 Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	2.4°	TB	WI	Y	B	
2	↓	2.9°	↓	↓	↓	↓	
3			/				
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:
MLO2-1 time=1229, MLO4-C time=1335
received 1 extra unpreserved vial for sample MLO4-3 8/1/13 1155

Unpacker Signature/Emp#: *[Signature]* 2308 Date/Time: 8/2/13 2210

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

- A** TIC is a possible aldol-condensation product
- B** Analyte was also detected in the blank
- C** Pesticide result confirmed by GC/MS
- D** Compound quantitated on a diluted sample
- E** Concentration exceeds the calibration range of the instrument
- N** Presumptive evidence of a compound (TICs only)
- P** Concentration difference between primary and confirmation columns $>25\%$
- U** Compound was not detected
- X,Y,Z** Defined in case narrative

Inorganic Qualifiers

- B** Value is $<$ CRDL, but \geq IDL
- E** Estimated due to interference
- M** Duplicate injection precision not met
- N** Spike sample not within control limits
- S** Method of standard additions (MSA) used for calculation
- U** Compound was not detected
- W** Post digestion spike out of control limits
- *** Duplicate analysis not within control limits
- +** Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

August 28, 2013

Project: POM - EISB MONITORING PROGRAM

Submission Date: 08/16/2013

Group Number: 1412249

SDG: POM74

PO Number: LBIO-66380

State of Sample Origin: NJ

Client Sample Description

GW-081413-ML02-5 Groundwater
GW-081413-ML02-4 Groundwater
GW-081413-ML02-3 Groundwater
GW-081413-ML02-2 Groundwater
GW-081413-ML02-7 Groundwater
GW-081513-EW01-LOWER Groundwater
GW-081513-EW01-UPPER Groundwater
W-081413-FB-ML02-7 Blank Water
W-081513-FB-EW01-UPPER Blank Water
W-081513-TB-EW01-UPPER Blank Water

Lancaster Labs (LL) #

7165126
7165127
7165128
7165129
7165130
7165131
7165132
7165133
7165134
7165135

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

1 COPY TO Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: GW-081413-ML02-5 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7165126
LL Group # 1412249
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/14/2013 10:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/16/2013 19:56
Reported: 08/28/2013 14:41

PML25 SDG#: POM74-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.2 J		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.6		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	43		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	25		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	36		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	0.3 J		0.1	0.5	1
02898	Trichloroethene	79-01-6	43		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	1.5		0.1	0.5	1

General Sample Comments

State of New Jersey Lab Certification No. PA011
State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132351AA	08/23/2013 17:41	Kerri E Legerlotz	1
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132361AA	08/24/2013 19:38	Kerri E Legerlotz	10
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132351AA	08/23/2013 17:41	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132361AA	08/24/2013 19:38	Kerri E Legerlotz	10

*=This limit was used in the evaluation of the final result

Sample Description: GW-081413-ML02-4 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7165127
LL Group # 1412249
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/14/2013 11:42 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/16/2013 19:56
Reported: 08/28/2013 14:41

PML24 SDG#: POM74-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	3.5		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	4.6		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	510		10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	180		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	23		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	0.2 J		0.1	0.5	1
02898	Trichloroethene	79-01-6	50		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	110		1.0	5.0	10
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	5.3		1.0	5.0	1
07105	Ethene	74-85-1	6.4		1.0	5.0	1
07105	Methane	74-82-8	680		15	25	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132351AA	08/23/2013 18:03	Kerri E Legerlotz	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132382AA	08/27/2013 05:07	Brett W Kenyon	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132382AA	08/27/2013 05:29	Brett W Kenyon	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132351AA	08/23/2013 18:03	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132382AA	08/27/2013 05:07	Brett W Kenyon	10
01163	GC/MS VOA Water Prep	SW-846 5030B	3	C132382AA	08/27/2013 05:29	Brett W Kenyon	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132340033A	08/23/2013 02:08	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132340033A	08/23/2013 10:23	Elizabeth J Marin	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-081413-ML02-2 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7165129
LL Group # 1412249
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/14/2013 15:03 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/16/2013 19:56
Reported: 08/28/2013 14:41

PML22 SDG#: POM74-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	2.9		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	3.8		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	410		10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	150		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	18		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.2 J		0.1	0.5	1
02898	Trichloroethene	79-01-6	36		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	82		1.0	5.0	10
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	4.1 J		1.0	5.0	1
07105	Ethene	74-85-1	4.6 J		1.0	5.0	1
07105	Methane	74-82-8	460		3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132351AA	08/23/2013 18:48	Kerri E Legerlotz	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132382AA	08/27/2013 06:36	Brett W Kenyon	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132382AA	08/27/2013 06:58	Brett W Kenyon	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132351AA	08/23/2013 18:48	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132382AA	08/27/2013 06:36	Brett W Kenyon	10
01163	GC/MS VOA Water Prep	SW-846 5030B	3	C132382AA	08/27/2013 06:58	Brett W Kenyon	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132340033A	08/23/2013 02:50	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-081413-ML02-7 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7165130
LL Group # 1412249
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/14/2013 16:17 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/16/2013 19:56
Reported: 08/28/2013 14:41

PML27 SDG#: POM74-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	1.3		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.5 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	68		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	3.7		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.2 J		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	110		1.0	5.0	10
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	4.4 J		1.0	5.0	1
07105	Ethene	74-85-1	17		1.0	5.0	1
07105	Methane	74-82-8	2,600		60	100	20

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132351AA	08/23/2013 14:46	Kerri E Legerlotz	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132351AA	08/23/2013 15:07	Kerri E Legerlotz	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132351AA	08/23/2013 14:46	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132351AA	08/23/2013 15:07	Kerri E Legerlotz	10
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132340033A	08/23/2013 03:08	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132340033A	08/23/2013 11:00	Elizabeth J Marin	20

*=This limit was used in the evaluation of the final result

Sample Description: GW-081513-EW01-LOWER Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7165131
LL Group # 1412249
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/15/2013 10:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/16/2013 19:56
Reported: 08/28/2013 14:41

PMLOW SDG#: POM74-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	3.2 J	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	3.6 J	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	520	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	200	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	25	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U	1.0	5.0	10
02898	Trichloroethene	79-01-6	52	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	120	1.0	5.0	10
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	6.0	1.0	5.0	1
07105	Ethene	74-85-1	6.5	1.0	5.0	1
07105	Methane	74-82-8	860	15	25	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132352AA	08/23/2013 22:29	Brett W Kenyon	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132352AA	08/23/2013 22:50	Brett W Kenyon	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132352AA	08/23/2013 22:29	Brett W Kenyon	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132352AA	08/23/2013 22:50	Brett W Kenyon	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132340033A	08/23/2013 03:27	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132340033A	08/23/2013 11:18	Elizabeth J Marin	5

*=This limit was used in the evaluation of the final result

Sample Description: W-081413-FB-ML02-7 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7165133
LL Group # 1412249
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/14/2013 16:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/16/2013 19:56
Reported: 08/28/2013 14:41

PF027 SDG#: POM74-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132351AA	08/23/2013 13:38	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132351AA	08/23/2013 13:38	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132340033A	08/23/2013 04:22	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: W-081513-FB-EW01-UPPER Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7165134
LL Group # 1412249
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/15/2013 11:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/16/2013 19:56
Reported: 08/28/2013 14:41

PFUPP SDG#: POM74-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC Miscellaneous		RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132351AA	08/23/2013 14:00	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132351AA	08/23/2013 14:00	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132340033A	08/23/2013 04:40	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: W-081513-TB-EW01-UPPER Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7165135
LL Group # 1412249
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/15/2013 11:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/16/2013 19:56
Reported: 08/28/2013 14:41

PTUPP SDG#: POM74-10*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
		SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC Miscellaneous							
		RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132351AA	08/23/2013 14:22	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132351AA	08/23/2013 14:22	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132340033A	08/22/2013 22:30	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 08/28/13 at 02:41 PM

Group Number: 1412249

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: C132351AA Sample number(s): 7165126-7165130, 7165133-7165135									
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	110		80-129		
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	101		80-120		
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	108		80-127		
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	104		80-123		
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	103		80-120		
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	108		80-120		
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	110		80-120		
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	105		80-120		
Trichloroethene	0.1 U	0.1	0.5	ug/l	109		80-120		
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	104		65-127		
Batch number: C132361AA Sample number(s): 7165126									
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	102		80-120		
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	106		80-120		
Trichloroethene	0.1 U	0.1	0.5	ug/l	107		80-120		
Batch number: C132382AA Sample number(s): 7165127-7165129, 7165132									
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	103	104	80-120	1	30
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	106	108	80-120	2	30
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	107	109	80-120	2	30
Trichloroethene	0.1 U	0.1	0.5	ug/l	108	110	80-120	2	30
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	88	91	65-127	4	30
Batch number: G132352AA Sample number(s): 7165131-7165132									
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	110	112	80-129	2	30
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	97	97	80-120	0	30
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	110	112	80-127	1	30
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	95	96	80-123	1	30
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	99	100	80-120	1	30
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	100	101	80-120	1	30
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	114	116	80-120	2	30
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	106	108	80-120	2	30
Trichloroethene	0.1 U	0.1	0.5	ug/l	104	106	80-120	2	30
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	99	98	65-127	1	30
Batch number: 132340033A Sample number(s): 7165127-7165135									
Ethane	1.0 U	1.0	5.0	ug/l	95		80-120		
Ethene	1.0 U	1.0	5.0	ug/l	95		80-120		
Methane	3.0 U	3.0	5.0	ug/l	98		80-120		

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 08/28/13 at 02:41 PM

Group Number: 1412249

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup</u> <u>RPD</u> <u>Max</u>
Batch number: C132351AA	Sample number(s): 7165126-7165130,7165133-7165135 UNSPK: P166803								
Carbon Tetrachloride	108	112	81-148	4	30				
1,1-Dichloroethane	95	99	88-136	4	30				
1,2-Dichloroethane	102	110	82-135	7	30				
1,1-Dichloroethene	99	103	83-150	4	30				
cis-1,2-Dichloroethene	98	104	82-129	6	30				
trans-1,2-Dichloroethene	101	103	88-127	2	30				
Tetrachloroethene	106	114	75-129	7	30				
1,1,1-Trichloroethane	103	107	85-140	4	30				
Trichloroethene	105	112	85-131	7	30				
Vinyl Chloride	96	103	62-135	7	30				
Batch number: C132361AA	Sample number(s): 7165126 UNSPK: P171589								
cis-1,2-Dichloroethene	106	102	82-129	3	30				
Tetrachloroethene	115	112	75-129	2	30				
Trichloroethene	116	113	85-131	3	30				
Batch number: 132340033A	Sample number(s): 7165127-7165135 UNSPK: P162927								
Ethane	87	89	32-129	2	20				
Ethene	94	97	35-162	3	20				
Methane	-6916 (2)	-6450 (2)	35-157	2	20				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles
Batch number: C132351AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7165126	103	102	97	97
7165127	103	100	97	98
7165128	104	101	98	97
7165129	105	103	98	97
7165130	101	102	98	99
7165133	101	102	98	98
7165134	101	100	98	98
7165135	102	102	97	98
Blank	101	103	98	99
LCS	101	101	99	100
MS	101	100	99	99
MSD	102	103	99	99
Limits:	77-114	74-113	77-110	78-110

Analysis Name: GC/MS Volatiles

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 08/28/13 at 02:41 PM

Group Number: 1412249

Surrogate Quality Control

Batch number: G132352AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7165131	105	101	97	93
7165132	107	103	97	95
Blank	107	106	96	95
LCS	108	104	96	95
LCSD	107	104	97	95
Limits:	77-114	74-113	77-110	78-110

Analysis Name: Volatile Headspace Hydrocarbon

Batch number: 132340033A

Propene

7165127	89
7165128	96
7165129	91
7165130	83
7165131	94
7165132	90
7165133	99
7165134	89
7165135	101
Blank	99
LCS	98
MS	87
MSD	90
Limits:	42-131

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Sample Administration
Receipt Documentation Log

1412249

Client/Project: DuPont pompton Lakes
 Date of Receipt: 8/16/13
 Time of Receipt: 1956
 Source Code: 01

Shipping Container Sealed: YES NO
 Custody Seal Present * : YES NO
* Custody seal was intact unless otherwise noted in the discrepancy section
 Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	2.1	TB	WI	Y	B	
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: *Zi* 2308 Date/Time: 8/16/13 2127

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

- A** TIC is a possible aldol-condensation product
- B** Analyte was also detected in the blank
- C** Pesticide result confirmed by GC/MS
- D** Compound quantitated on a diluted sample
- E** Concentration exceeds the calibration range of the instrument
- N** Presumptive evidence of a compound (TICs only)
- P** Concentration difference between primary and confirmation columns $>25\%$
- U** Compound was not detected
- X,Y,Z** Defined in case narrative

Inorganic Qualifiers

- B** Value is $<$ CRDL, but \geq IDL
- E** Estimated due to interference
- M** Duplicate injection precision not met
- N** Spike sample not within control limits
- S** Method of standard additions (MSA) used for calculation
- U** Compound was not detected
- W** Post digestion spike out of control limits
- *** Duplicate analysis not within control limits
- +** Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

September 13, 2013

Project: POM - EISB MONITORING PROGRAM

Submission Date: 08/30/2013

Group Number: 1415574

SDG: POM75

PO Number: LBIO-66380

State of Sample Origin: NJ

Client Sample Description

Lancaster Labs (LL) #

GW-082713-ML04-1 Groundwater	7181693
GW-082713-ML04-6 Groundwater	7181694
GW-082713-ML04-5 Groundwater	7181695
GW-082713-ML04-4 Groundwater	7181696
GW-082713-ML04-4 MS Groundwater	7181697
GW-082713-ML04-4 MSD Groundwater	7181698
GW-082713-ML04-3 Groundwater	7181699
GW-082713-ML04-2 Groundwater	7181700
GW-082713-ML02-1 Groundwater	7181701
GW-082713-ML02-6 Groundwater	7181702
GW-082713-ML02-4 Groundwater	7181703
GW-082713-ML02-4-D Groundwater	7181704
GW-082713-ML02-5 Groundwater	7181705
GW-082713-ML04-7 Groundwater	7181706
GW-082813-ML02-3 Groundwater	7181707
GW-082813-EW01-UPPER Groundwater	7181708
GW-082813-ML02-2 Groundwater	7181709
GW-082813-EW01-LOWER Groundwater	7181710
GW-082813-ML02-7 Groundwater	7181711
W-082713FB-ML02-4 Blank Water	7181712
W-082813FB-ML02-7 Blank Water	7181713
W-082813TB-ML02-7 Blank Water	7181714
W-082813TB-ML02-7 Blank Water	7181715
W-082813TB-ML02-7 Blank Water	7181716

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

1 COPY TO Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: GW-082713-ML04-1 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181693
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/27/2013 10:10 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

ML4-1 SDG#: POM75-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.7		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.8		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	90		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	29		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	19		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	0.2 J		0.1	0.5	1
02898	Trichloroethene	79-01-6	24		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	18		0.1	0.5	1

A preserved vial was submitted for analysis. However, the pH at the time of analysis was 7.

Wet Chemistry SW-846 9060A		mg/l	mg/l	mg/l
00354	Total Organic Carbon (Quad)	n.a.	0.50 U	1.0
The reported result is the average of the following trials:				
	0.094	mg/l		
	0.094	mg/l		
	0.019	mg/l		
	0	mg/l		

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 14:42	Kerri E Legerlotz	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 15:04	Kerri E Legerlotz	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132481AA	09/05/2013 14:42	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132481AA	09/05/2013 15:04	Kerri E Legerlotz	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13254049502A	09/11/2013 03:34	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-082713-ML04-6 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181694
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/27/2013 11:10 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

ML4-6 SDG#: POM75-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 J		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.4 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	30		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	20		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	24		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	25		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	1.2		0.1	0.5	1
Wet Chemistry SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	1.5		0.50	1.0	1
The reported result is the average of the following trials:							
	1.355	mg/l					
	1.478	mg/l					
	1.581	mg/l					
	1.39	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 15:26	Kerri E Legerlotz	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 15:48	Kerri E Legerlotz	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132481AA	09/05/2013 15:26	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132481AA	09/05/2013 15:48	Kerri E Legerlotz	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13254049502A	09/11/2013 04:03	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-082713-ML04-5 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181695
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/27/2013 12:05 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

ML4-5 SDG#: POM75-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.6	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	1.1	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	110	1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	36	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	21	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U	0.1	0.5	1
02898	Trichloroethene	79-01-6	38	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	21	0.1	0.5	1
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	2.5	0.50	1.0	1
The reported result is the average of the following trials:						
	2.242	mg/l				
	2.618	mg/l				
	2.463	mg/l				
	2.494	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 16:10	Kerri E Legerlotz	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 16:33	Kerri E Legerlotz	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132481AA	09/05/2013 16:10	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132481AA	09/05/2013 16:33	Kerri E Legerlotz	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13254049502A	09/11/2013 04:33	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: **GW-082713-ML04-4 Groundwater**
EISB MONITORING PROGRAM 2013

LL Sample # **WW 7181696**
LL Group # **1415574**
Account # **07032**

Project Name: **POM - EISB MONITORING PROGRAM**

Collected: 08/27/2013 12:55 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

ML4-4 SDG#: POM75-04BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.5 U	ug/l	ug/l	5
02898	1,1-Dichloroethane	75-34-3	2.9	ug/l	ug/l	5
02898	1,2-Dichloroethane	107-06-2	0.5 U	ug/l	ug/l	5
02898	1,1-Dichloroethene	75-35-4	3.3	ug/l	ug/l	5
02898	cis-1,2-Dichloroethene	156-59-2	450	ug/l	ug/l	50
02898	trans-1,2-Dichloroethene	156-60-5	150	ug/l	ug/l	50
02898	Tetrachloroethene	127-18-4	29	ug/l	ug/l	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U	ug/l	ug/l	5
02898	Trichloroethene	79-01-6	73	ug/l	ug/l	5
02898	Vinyl Chloride	75-01-4	110	ug/l	ug/l	5
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	5.5	ug/l	ug/l	1
07105	Ethene	74-85-1	7.8	ug/l	ug/l	1
07105	Methane	74-82-8	740	ug/l	ug/l	5
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	4.1	mg/l	mg/l	1
The reported result is the average of the following trials:						
	4.235	mg/l				
	4.133	mg/l				
	3.987	mg/l				
	4.043	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 12:54	Kerri E Legerlotz	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 14:20	Kerri E Legerlotz	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132481AA	09/05/2013 12:54	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132481AA	09/05/2013 14:20	Kerri E Legerlotz	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 15:20	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 19:53	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13254049502A	09/11/2013 05:19	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-082713-ML04-4 MS Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181697
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/27/2013 12:55 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

ML4-4 SDG#: POM75-04MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	32		2.5	5
02898	1,1-Dichloroethane	75-34-3	28		2.5	5
02898	1,2-Dichloroethane	107-06-2	29		2.5	5
02898	1,1-Dichloroethene	75-35-4	30		2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	510	E	2.5	5
02898	trans-1,2-Dichloroethene	156-60-5	180	E	2.5	5
02898	Tetrachloroethene	127-18-4	58		2.5	5
02898	1,1,1-Trichloroethane	71-55-6	29		2.5	5
02898	Trichloroethene	79-01-6	100		2.5	5
02898	Vinyl Chloride	75-01-4	130	E	2.5	5
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	57		5.0	1
07105	Ethene	74-85-1	70		5.0	1
07105	Methane	74-82-8	590	E	5.0	1
Wet Chemistry						
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	14.5		1.0	1
	The reported result is the average of the following trials:					
	14.439	mg/l				
	14.448	mg/l				
	14.306	mg/l				
	14.7	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 13:36	Kerri E Legerlotz	5
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132481AA	09/05/2013 13:36	Kerri E Legerlotz	5
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 18:55	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13254049502A	09/11/2013 05:50	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-082713-ML04-4 MSD Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181698
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/27/2013 12:55 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

ML4-4 SDG#: POM75-04MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	30		2.5	5
02898	1,1-Dichloroethane	75-34-3	27		2.5	5
02898	1,2-Dichloroethane	107-06-2	29		2.5	5
02898	1,1-Dichloroethene	75-35-4	30		2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	500	E	2.5	5
02898	trans-1,2-Dichloroethene	156-60-5	180	E	2.5	5
02898	Tetrachloroethene	127-18-4	58		2.5	5
02898	1,1,1-Trichloroethane	71-55-6	28		2.5	5
02898	Trichloroethene	79-01-6	100		2.5	5
02898	Vinyl Chloride	75-01-4	130	E	2.5	5
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	67		5.0	1
07105	Ethene	74-85-1	83		5.0	1
07105	Methane	74-82-8	670	E	5.0	1
Wet Chemistry						
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	14.5		1.0	1
	The reported result is the average of the following trials:					
	14.453	mg/l				
	14.459	mg/l				
	14.46	mg/l				
	14.647	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 13:58	Kerri E Legerlotz	5
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132481AA	09/05/2013 13:58	Kerri E Legerlotz	5
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 19:13	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13254049502A	09/11/2013 06:36	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-082713-ML04-3 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181699
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/27/2013 13:55 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

ML4-3 SDG#: POM75-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.5 U	ug/l	ug/l	5
02898	1,1-Dichloroethane	75-34-3	2.5	ug/l	ug/l	5
02898	1,2-Dichloroethane	107-06-2	0.5 U	ug/l	ug/l	5
02898	1,1-Dichloroethene	75-35-4	3.1	ug/l	ug/l	5
02898	cis-1,2-Dichloroethene	156-59-2	410	ug/l	ug/l	50
02898	trans-1,2-Dichloroethene	156-60-5	140	ug/l	ug/l	50
02898	Tetrachloroethene	127-18-4	6.8	ug/l	ug/l	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U	ug/l	ug/l	5
02898	Trichloroethene	79-01-6	60	ug/l	ug/l	5
02898	Vinyl Chloride	75-01-4	88	ug/l	ug/l	5
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	4.6 J	ug/l	ug/l	1
07105	Ethene	74-85-1	5.9	ug/l	ug/l	1
07105	Methane	74-82-8	540	ug/l	ug/l	5
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	6.5	mg/l	mg/l	1
The reported result is the average of the following trials:						
	6.391	mg/l				
	6.608	mg/l				
	6.332	mg/l				
	6.542	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 16:55	Kerri E Legerlotz	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 17:17	Kerri E Legerlotz	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132481AA	09/05/2013 16:55	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132481AA	09/05/2013 17:17	Kerri E Legerlotz	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 15:38	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 20:11	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13254049502A	09/11/2013 07:06	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-082713-ML04-2 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181700
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/27/2013 14:45 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

ML4-2 SDG#: POM75-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	4.7 J	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	6.4	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	1,100	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	380	10	50	100
02898	Tetrachloroethene	127-18-4	1.0 U	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U	1.0	5.0	10
02898	Trichloroethene	79-01-6	33	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	170	1.0	5.0	10
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	8.0	1.0	5.0	1
07105	Ethene	74-85-1	10	1.0	5.0	1
07105	Methane	74-82-8	880	15	25	5
Wet Chemistry						
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	12.8	0.50	1.0	1
	The reported result is the average of the following trials:					
	12.454	mg/l				
	13.183	mg/l				
	13.372	mg/l				
	12.348	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 17:40	Kerri E Legerlotz	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 18:02	Kerri E Legerlotz	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132481AA	09/05/2013 17:40	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132481AA	09/05/2013 18:02	Kerri E Legerlotz	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 15:56	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 20:29	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13254049502A	09/11/2013 07:37	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-082713-ML02-1 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181701
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/27/2013 10:19 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02

Reported: 09/13/2013 09:46

ML2-1 SDG#: POM75-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.2 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	15		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	6.9		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	20		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	0.3 J		0.1	0.5	1
02898	Trichloroethene	79-01-6	15		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	1.2		0.1	0.5	1
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	0.50 U		0.50	1.0	1
	The reported result is the average of the following trials:						
	0	mg/l					
	0	mg/l					
	0	mg/l					
	0	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 18:24	Kerri E Legerlotz	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 18:47	Kerri E Legerlotz	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132481AA	09/05/2013 18:24	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132481AA	09/05/2013 18:47	Kerri E Legerlotz	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13254049502A	09/11/2013 08:22	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-082713-ML02-6 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181702
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/27/2013 11:20 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

ML2-6 SDG#: POM75-08

CAT No.	Analysis Name	CAS Number	As Received Result	Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.3 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	22		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	15		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	24		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	22		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	0.9		0.1	0.5	1
Wet Chemistry SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	0.53 J		0.50	1.0	1
The reported result is the average of the following trials:							
	0.558	mg/l					
	0.583	mg/l					
	0.532	mg/l					
	0.437	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 19:09	Kerri E Legerlotz	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 19:31	Kerri E Legerlotz	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132481AA	09/05/2013 19:09	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132481AA	09/05/2013 19:31	Kerri E Legerlotz	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13254049502A	09/11/2013 08:52	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-082713-ML02-4 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181703
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/27/2013 14:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

ML2-4 SDG#: POM75-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	3.1 J	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	3.6 J	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	500	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	190	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	21	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U	1.0	5.0	10
02898	Trichloroethene	79-01-6	50	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	110	1.0	5.0	10
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	5.5	1.0	5.0	1
07105	Ethene	74-85-1	7.1	1.0	5.0	1
07105	Methane	74-82-8	770	15	25	5
Wet Chemistry						
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	12.5	0.50	1.0	1
	The reported result is the average of the following trials:					
	12.363	mg/l				
	11.918	mg/l				
	12.732	mg/l				
	12.794	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 19:54	Kerri E Legerlotz	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 20:16	Kerri E Legerlotz	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132481AA	09/05/2013 19:54	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132481AA	09/05/2013 20:16	Kerri E Legerlotz	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 16:32	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 20:47	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13254049502A	09/11/2013 09:38	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-082713-ML02-4-D Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181704
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/27/2013 14:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

ML2D4 SDG#: POM75-10FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B 25mL	ug/l	ug/l	ug/l	
		purge				
02898	Carbon Tetrachloride	56-23-5	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	3.2 J	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	3.9 J	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	490	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	190	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	20	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U	1.0	5.0	10
02898	Trichloroethene	79-01-6	49	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	120	1.0	5.0	10
GC Miscellaneous						
		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	6.2	1.0	5.0	1
07105	Ethene	74-85-1	8.1	1.0	5.0	1
07105	Methane	74-82-8	750	15	25	5
Wet Chemistry						
		SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	12.2	0.50	1.0	1
	The reported result is the average of the following trials:					
		11.982	mg/l			
		12.273	mg/l			
		12.226	mg/l			
		12.314	mg/l			

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132482AA	09/05/2013 23:25	Brett W Kenyon	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132482AA	09/05/2013 23:47	Brett W Kenyon	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132482AA	09/05/2013 23:25	Brett W Kenyon	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132482AA	09/05/2013 23:47	Brett W Kenyon	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 16:50	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 21:04	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13254049502A	09/11/2013 10:09	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-082713-ML02-5 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181705
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/27/2013 12:32 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

ML2-5 SDG#: POM75-11

CAT No.	Analysis Name	CAS Number	As Received Result	Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.2 J		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.6		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	48		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	19		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	41		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	0.4 J		0.1	0.5	1
02898	Trichloroethene	79-01-6	49		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	2.1		0.1	0.5	1
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	0.70 J		0.50	1.0	1
	The reported result is the average of the following trials:						
	0.687	mg/l					
	0.728	mg/l					
	0.681	mg/l					
	0.708	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132482AA	09/06/2013 00:09	Brett W Kenyon	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132482AA	09/06/2013 00:31	Brett W Kenyon	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132482AA	09/06/2013 00:09	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132482AA	09/06/2013 00:31	Brett W Kenyon	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13255049502A	09/12/2013 03:00	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-082713-ML04-7 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181706
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/27/2013 15:35 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

ML4-7 SDG#: POM75-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles			SW-846 8260B 25mL	ug/l	ug/l	ug/l	
			purge				
02898	Carbon Tetrachloride	56-23-5	0.2 U		0.2	1.0	2
02898	1,1-Dichloroethane	75-34-3	1.7		0.2	1.0	2
02898	1,2-Dichloroethane	107-06-2	0.2 U		0.2	1.0	2
02898	1,1-Dichloroethene	75-35-4	0.7 J		0.2	1.0	2
02898	cis-1,2-Dichloroethene	156-59-2	79		2.0	10	20
02898	trans-1,2-Dichloroethene	156-60-5	6.3		0.2	1.0	2
02898	Tetrachloroethene	127-18-4	0.2 U		0.2	1.0	2
02898	1,1,1-Trichloroethane	71-55-6	0.2 U		0.2	1.0	2
02898	Trichloroethene	79-01-6	0.4 J		0.2	1.0	2
02898	Vinyl Chloride	75-01-4	120		2.0	10	20
GC Miscellaneous			RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	5.3		1.0	5.0	1
07105	Ethene	74-85-1	14		1.0	5.0	1
07105	Methane	74-82-8	1,800		60	100	20
Wet Chemistry			SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	16.3		0.50	1.0	1
The reported result is the average of the following trials:							
		16.294	mg/l				
		16.845	mg/l				
		15.798	mg/l				
		16.309	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132482AA	09/06/2013 00:54	Brett W Kenyon	2
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132482AA	09/06/2013 01:16	Brett W Kenyon	20
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132482AA	09/06/2013 00:54	Brett W Kenyon	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132482AA	09/06/2013 01:16	Brett W Kenyon	20
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 17:08	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 21:21	Elizabeth J Marin	20
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13255049502A	09/12/2013 03:30	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-082813-ML02-3 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181707
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/28/2013 10:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

ML2-3 SDG#: POM75-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B 25mL	ug/l	ug/l	ug/l	
		purge				
02898	Carbon Tetrachloride	56-23-5	0.5 U	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	3.3	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	3.8	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	580	5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	210	5.0	25	50
02898	Tetrachloroethene	127-18-4	16	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	2.5	5
02898	Trichloroethene	79-01-6	46	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	120	0.5	2.5	5
GC Miscellaneous						
		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	6.2	1.0	5.0	1
07105	Ethene	74-85-1	8.3	1.0	5.0	1
07105	Methane	74-82-8	740	15	25	5
Wet Chemistry						
		SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	14.4	0.50	1.0	1
	The reported result is the average of the following trials:					
		14.2	mg/l			
		14.422	mg/l			
		14.354	mg/l			
		14.542	mg/l			

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132482AA	09/06/2013 01:38	Brett W Kenyon	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132482AA	09/06/2013 02:01	Brett W Kenyon	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132482AA	09/06/2013 01:38	Brett W Kenyon	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132482AA	09/06/2013 02:01	Brett W Kenyon	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 17:25	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 21:39	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13255049502A	09/12/2013 04:15	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: **GW-082813-EW01-UPPER Groundwater**
EISB MONITORING PROGRAM 2013

LL Sample # **WW 7181708**
LL Group # **1415574**
Account # **07032**

Project Name: **POM - EISB MONITORING PROGRAM**

Collected: 08/28/2013 10:35 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02

Reported: 09/13/2013 09:46

UPPRT SDG#: POM75-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.2 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	19		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	12		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	21		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	0.1 J		0.1	0.5	1
02898	Trichloroethene	79-01-6	20		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	0.7		0.1	0.5	1
GC Miscellaneous		RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1
Wet Chemistry		SW-846 9060A	mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	0.50 U		0.50	1.0	1
	The reported result is the average of the following trials:						
		0.132	mg/l				
		0.2	mg/l				
		0.04	mg/l				
		0.15	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132482AA	09/06/2013 02:23	Brett W Kenyon	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132482AA	09/06/2013 02:45	Brett W Kenyon	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132482AA	09/06/2013 02:23	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132482AA	09/06/2013 02:45	Brett W Kenyon	10
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 17:43	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13255049502A	09/12/2013 05:00	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-082813-ML02-2 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181709
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/28/2013 11:20 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02

Reported: 09/13/2013 09:46

ML2-2 SDG#: POM75-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.2 U		0.2	1.0	2
02898	1,1-Dichloroethane	75-34-3	2.3		0.2	1.0	2
02898	1,2-Dichloroethane	107-06-2	0.2 U		0.2	1.0	2
02898	1,1-Dichloroethene	75-35-4	2.7		0.2	1.0	2
02898	cis-1,2-Dichloroethene	156-59-2	370		2.0	10	20
02898	trans-1,2-Dichloroethene	156-60-5	130		2.0	10	20
02898	Tetrachloroethene	127-18-4	14		0.2	1.0	2
02898	1,1,1-Trichloroethane	71-55-6	0.2 U		0.2	1.0	2
02898	Trichloroethene	79-01-6	38		0.2	1.0	2
02898	Vinyl Chloride	75-01-4	75		2.0	10	20
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	4.3 J		1.0	5.0	1
07105	Ethene	74-85-1	5.2		1.0	5.0	1
07105	Methane	74-82-8	520		15	25	5
Wet Chemistry SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	11.9		0.50	1.0	1
The reported result is the average of the following trials:							
		11.737	mg/l				
		11.903	mg/l				
		11.872	mg/l				
		12.099	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132482AA	09/06/2013 03:07	Brett W Kenyon	2
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132482AA	09/06/2013 03:29	Brett W Kenyon	20
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132482AA	09/06/2013 03:07	Brett W Kenyon	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132482AA	09/06/2013 03:29	Brett W Kenyon	20
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 18:01	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 21:57	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13255049502A	09/12/2013 05:45	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: **GW-082813-EW01-LOWER Groundwater**
EISB MONITORING PROGRAM 2013

LL Sample # **WW 7181710**
LL Group # **1415574**
Account # **07032**

Project Name: **POM - EISB MONITORING PROGRAM**

Collected: 08/28/2013 11:53 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

LOWER SDG#: POM75-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	3.5		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	4.1		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	600		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	220		5.0	25	50
02898	Tetrachloroethene	127-18-4	16		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U		0.5	2.5	5
02898	Trichloroethene	79-01-6	49		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	130		5.0	25	50
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	7.4		1.0	5.0	1
07105	Ethene	74-85-1	8.7		1.0	5.0	1
07105	Methane	74-82-8	910		15	25	5
Wet Chemistry SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	7.1		0.50	1.0	1
The reported result is the average of the following trials:							
			7.125	mg/l			
			7.18	mg/l			
			6.902	mg/l			
			7.257	mg/l			

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132482AA	09/06/2013 03:51	Brett W Kenyon	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132482AA	09/06/2013 04:13	Brett W Kenyon	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132482AA	09/06/2013 03:51	Brett W Kenyon	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C132482AA	09/06/2013 04:13	Brett W Kenyon	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 18:19	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 22:15	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13255049502A	09/12/2013 06:15	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: W-082713FB-ML02-4 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181712
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/27/2013 14:45 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

ML24F SDG#: POM75-18FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	0.50 U		0.50	1.0	1
	The reported result is the average of the following trials:						
	0	mg/l					
	0	mg/l					
	0	mg/l					
	0	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 11:03	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132481AA	09/05/2013 11:03	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 13:52	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13255049502A	09/12/2013 07:31	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: W-082813FB-ML02-7 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181713
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/28/2013 12:20 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

ML27F SDG#: POM75-19FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	0.50 U		0.50	1.0	1
	The reported result is the average of the following trials:						
	0	mg/l					
	0	mg/l					
	0	mg/l					
	0	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 11:25	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132481AA	09/05/2013 11:25	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 14:09	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13255049502A	09/12/2013 08:00	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: W-082813TB-ML02-7 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181714
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/28/2013 10:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

M27T1 SDG#: POM75-20TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	0.1 U	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U	0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U	0.1	0.5	1
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U	1.0	5.0	1
07105	Ethene	74-85-1	1.0 U	1.0	5.0	1
07105	Methane	74-82-8	3.0 U	3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 11:47	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132481AA	09/05/2013 11:47	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 14:27	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: W-082813TB-ML02-7 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181715
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/28/2013 10:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

M27T2 SDG#: POM75-21TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
		SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC Miscellaneous							
		RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 12:09	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132481AA	09/05/2013 12:09	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 14:45	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: W-082813TB-ML02-7 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7181716
LL Group # 1415574
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 08/28/2013 10:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 08/30/2013 17:02
Reported: 09/13/2013 09:46

M27T3 SDG#: POM75-22TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C132481AA	09/05/2013 12:32	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C132481AA	09/05/2013 12:32	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132520046A	09/10/2013 15:02	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 09/13/13 at 09:46 AM

Group Number: 1415574

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: C132481AA Sample number(s): 7181693-7181703, 7181712-7181716									
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	118		80-129		
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	96		80-120		
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	115		80-127		
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	100		80-123		
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	102		80-120		
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	105		80-120		
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	107		80-120		
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	108		80-120		
Trichloroethene	0.1 U	0.1	0.5	ug/l	108		80-120		
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	89		65-127		
Batch number: C132482AA Sample number(s): 7181704-7181711									
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	115	117	80-129	1	30
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	95	98	80-120	4	30
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	115	115	80-127	0	30
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	99	101	80-123	3	30
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	100	103	80-120	3	30
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	104	108	80-120	3	30
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	105	107	80-120	2	30
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	106	109	80-120	3	30
Trichloroethene	0.1 U	0.1	0.5	ug/l	107	108	80-120	1	30
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	80	86	65-127	7	30
Batch number: 132520046A Sample number(s): 7181696-7181700, 7181703-7181704, 7181706-7181716									
Ethane	1.0 U	1.0	5.0	ug/l	98		80-120		
Ethene	1.0 U	1.0	5.0	ug/l	97		80-120		
Methane	3.0 U	3.0	5.0	ug/l	102		80-120		
Batch number: 13254049502A Sample number(s): 7181693-7181704									
Total Organic Carbon (Quad)	0.50 U	0.50	1.0	mg/l	104		91-113		
Batch number: 13255049502A Sample number(s): 7181705-7181713									
Total Organic Carbon (Quad)	0.50 U	0.50	1.0	mg/l	99		91-113		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

MS	MSD	MS/MSD	RPD	BKG	DUP	DUP	Dup RPD
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*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 09/13/13 at 09:46 AM

Group Number: 1415574

<u>Analysis Name</u>	<u>%REC</u>	<u>%REC</u>	<u>Limits</u>	<u>RPD</u>	<u>MAX</u>	<u>Conc</u>	<u>Conc</u>	<u>RPD</u>	<u>Max</u>
Batch number: C132481AA	Sample number(s): 7181693-7181703,7181712-7181716 UNSPK: 7181696								
Carbon Tetrachloride	126	121	81-148	4	30				
1,1-Dichloroethane	99	97	88-136	2	30				
1,2-Dichloroethane	117	114	82-135	2	30				
1,1-Dichloroethene	107	106	83-150	0	30				
cis-1,2-Dichloroethene	73 (2)	47 (2)	82-129	1	30				
trans-1,2-Dichloroethene	102 (2)	97 (2)	88-127	1	30				
Tetrachloroethene	116	117	75-129	0	30				
1,1,1-Trichloroethane	115	111	85-140	3	30				
Trichloroethene	111	109	85-131	0	30				
Vinyl Chloride	78 (2)	90 (2)	62-135	2	30				
Batch number: 132520046A	Sample number(s): 7181696-7181700,7181703-7181704,7181706-7181716 UNSPK: 7181696								
Ethane	86	101	32-129	15	20				
Ethene	102	123	35-162	17	20				
Methane	-239 (2)	-106 (2)	35-157	12	20				
Batch number: 13254049502A	Sample number(s): 7181693-7181704 UNSPK: 7181696								
Total Organic Carbon (Quad)	104	104	63-142	0	20				
Batch number: 13255049502A	Sample number(s): 7181705-7181713 UNSPK: 7181707								
Total Organic Carbon (Quad)	93	91	63-142	1	20				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles
Batch number: C132481AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7181693	106	103	96	94
7181694	108	103	96	94
7181695	106	102	96	94
7181696	108	105	96	94
7181697	106	103	99	101
7181698	105	102	99	100
7181699	108	102	97	94
7181700	109	103	97	95
7181701	111	103	95	93
7181702	110	104	96	92
7181703	109	104	96	94
7181712	108	103	97	95
7181713	108	106	97	96
7181714	108	105	97	95
7181715	109	104	97	95
7181716	110	105	96	95
Blank	108	102	97	95
LCS	105	103	98	100
MS	106	103	99	101
MSD	105	102	99	100

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 09/13/13 at 09:46 AM

Group Number: 1415574

Surrogate Quality Control

Limits:	77-114	74-113	77-110	78-110
Analysis Name: GC/MS Volatiles				
Batch number: C132482AA				
	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7181704	106	103	97	96
7181705	109	105	95	94
7181706	105	101	97	95
7181707	108	103	96	94
7181708	110	104	95	93
7181709	108	102	96	94
7181710	108	103	96	94
7181711	105	98	97	94
Blank	109	105	96	96
LCS	106	104	98	100
LCSD	106	104	99	100

Limits:	77-114	74-113	77-110	78-110
Analysis Name: Volatile Headspace Hydrocarbon				
Batch number: 132520046A				
	Propene			

7181696	94
7181697	82
7181698	94
7181699	90
7181700	95
7181703	91
7181704	92
7181706	86
7181707	96
7181708	101
7181709	92
7181710	93
7181711	73
7181712	87
7181713	86
7181714	91
7181715	99
7181716	103
Blank	106
LCS	103
MS	82
MSD	94

Limits:	42-131
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*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Sample Administration 1415574
Receipt Documentation Log

Client/Project: DuPont Pompton Lakes

Shipping Container Sealed: YES NO

Date of Receipt: 8/30/13

Custody Seal Present * : YES NO

Time of Receipt: 1702

* Custody seal was intact unless otherwise noted in the discrepancy section

Source Code: 01

Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	3.3	TB	WI	Y	B	
2	↓	0.9	↓	↓	↓	↓	
3	↓	4.2	↓	↓	↓	↓	
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

1 TOC vial of MLO4-3 has no sample info listed
1 HCl vial of GW-082713-MLO2-4 labeled GW-082713-MLO4-4 8/27/13 1415
Only received 4 tripblanks
Recd 5 HCl vials for MLO4-04; MLO4-3 not marked on COC LB

Unpacker Signature/Emp#: [Signature] 2308 Date/Time: 8/30/13 1807

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

Inorganic Qualifiers

A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

October 18, 2013

Project: POM - EISB MONITORING PROGRAM

Submission Date: 09/13/2013
Group Number: 1418916
SDG: POM78
PO Number: LBIO-66380
State of Sample Origin: NJ

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
GW-091213-ML02-5 Groundwater	7198156
GW-091213-ML02-4 Groundwater	7198157
GW-091213-ML02-4 MS Groundwater	7198158
GW-091213-ML02-4 MSD Groundwater	7198159
GW-091213-ML02-4-D Groundwater	7198160
GW-091213-ML02-3 Groundwater	7198161
GW-091213-ML02-2 Groundwater	7198162
GW-091213-ML02-7 Groundwater	7198163
GW-091313-EW01-LOWER Groundwater	7198164
GW-091313-EW01-UPPER Groundwater	7198165
W-091213-FB-ML02-7 Blank Water	7198166
W-091313-FB-EW01-LOWER Blank Water	7198167
W-091313-TB Blank Water	7198168

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

1 COPY TO Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

October 21, 2013

Ms. Candia Carle
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark, DE 19713

Dear Candia:

I am writing to inform you of revised analytical reports that are being issued for the following:

Project No.: POM - EISB MONITORING PROGRAM

Group No.: 1418916

SDG.: POM78

ELLE Sample No.	Client Sample Identification	Detected Compounds being Removed	Units	Collection Date
7198156	GW-091213-ML02-5 Groundwater	Benzene 0.2 J	ug/L	09/12/2013 09:40
7198157	GW-091213-ML02-4 Groundwater			09/12/2013 10:45
7198158	GW-091213-ML02-4 MS Groundwater			09/12/2013 10:45
7198159	GW-091213-ML02-4 MSD Groundwater			09/12/2013 10:45
7198160	GW-091213-ML02-4-D Groundwater			09/12/2013 10:45
7198161	GW-091213-ML02-3 Groundwater			09/12/2013 12:00
7198162	GW-091213-ML02-2 Groundwater	Benzene 0.3 J	ug/L	09/12/2013 14:50
7198163	GW-091213-ML02-7 Groundwater	Benzene 0.2 J; Chloroethane 0.6 J	ug/L	09/12/2013 16:02
7198164	GW-091313-EW01-LOWER Groundwater	Benzene 0.5 J	ug/L	09/13/2013 09:37
7198165	GW-091313-EW01-UPPER Groundwater			09/13/2013 11:09
7198166	W-091213-FB-ML02-7 Blank Water	Carbon Disulfide 0.8; Methylene chloride 0.9	ug/L	09/12/2013 15:32
7198167	W-091313-FB-EW01-LOWER Blank Water	Carbon Disulfide 2.1; Methylene chloride 0.5 J	ug/L	09/13/2013 10:15
7198168	W-091313-TB Blank Water			09/13/2013 09:37

The correction to the data affects the GC/MS Volatiles data analysis only.

Page 2
Ms. Candia Carle
October 21, 2013

These samples were entered with the incorrect volatile compound list. The 10/92 SOW compound list was reported instead of the Pompton Lakes 10 compound list. The revised reports show the correct compound list however we had positive results for several compounds that are on the 10/92 SOW list, but not on the site specific list. The above samples were updated and the analytes not requested were removed from the analytical report.

The revised analytical report reflects this correction and is enclosed.

You are a valued client and we apologize for any inconvenience that this incident may have caused. If you have any questions or require further assistance, please call me at 717-656-2300, Ext. 1310. We appreciate your business and look forward to continuing to serve your laboratory needs.

Sincerely,

A handwritten signature in cursive script that reads "Nancy Jean Bornholm".

Nancy Jean Bornholm
Principal Project Manager
Environmental Client Services

NJB/slw
Enclosures

REVISED

Sample Description: GW-091213-ML02-5 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7198156
LL Group # 1418916
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/12/2013 09:40 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/13/2013 19:25
Reported: 10/18/2013 08:03

EIS05 SDG#: POM78-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	1.9		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	2.4		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	240		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	76		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	26		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	0.1 J		0.1	0.5	1
02898	Trichloroethene	79-01-6	56		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	52		1.0	5.0	10

General Sample Comments

State of New Jersey Lab Certification No. PA011
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 8.0-12.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 14:22	Jason M Long	1
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 14:44	Jason M Long	10
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132601AA	09/17/2013 14:22	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132601AA	09/17/2013 14:44	Jason M Long	10

*=This limit was used in the evaluation of the final result

Sample Description: GW-091213-ML02-4 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7198157
LL Group # 1418916
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/12/2013 10:45 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/13/2013 19:25
Reported: 10/18/2013 08:03

EIS04 SDG#: POM78-02BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	3.6 J	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	4.3 J	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	640	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	220	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	9.8	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U	1.0	5.0	10
02898	Trichloroethene	79-01-6	29	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	130	1.0	5.0	10
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	6.4	1.0	5.0	1
07105	Ethene	74-85-1	9.2	1.0	5.0	1
07105	Methane	74-82-8	890	30	50	10

General Sample Comments

State of New Jersey Lab Certification No. PA011
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 8.0-12.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 12:55	Jason M Long	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 14:00	Jason M Long	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132601AA	09/17/2013 12:55	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132601AA	09/17/2013 14:00	Jason M Long	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132620031A	09/19/2013 20:02	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132620031A	09/20/2013 09:13	Elizabeth J Marin	10

*=This limit was used in the evaluation of the final result

Sample Description: GW-091213-ML02-4 MS Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7198158
LL Group # 1418916
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/12/2013 10:45 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/13/2013 19:25
Reported: 10/18/2013 08:03

EIS04 SDG#: POM78-02MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	53	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	52	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	52	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	54	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	680	E 1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	280	E 1.0	5.0	10
02898	Tetrachloroethene	127-18-4	68	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	53	1.0	5.0	10
02898	Trichloroethene	79-01-6	84	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	180	1.0	5.0	10
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	64	1.0	5.0	1
07105	Ethene	74-85-1	81	1.0	5.0	1
07105	Methane	74-82-8	890	E 3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 8.0-12.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 13:17	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132601AA	09/17/2013 13:17	Jason M Long	10
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132620031A	09/19/2013 20:20	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-091213-ML02-4 MSD Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7198159
LL Group # 1418916
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/12/2013 10:45 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/13/2013 19:25
Reported: 10/18/2013 08:03

EIS04 SDG#: POM78-02MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	52	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	50	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	50	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	52	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	650 E	1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	270 E	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	65	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	52	1.0	5.0	10
02898	Trichloroethene	79-01-6	81	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	170	1.0	5.0	10
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	61	1.0	5.0	1
07105	Ethene	74-85-1	78	1.0	5.0	1
07105	Methane	74-82-8	770 E	3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 8.0-12.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 13:39	Jason M Long	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132601AA	09/17/2013 13:39	Jason M Long	10
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132620031A	09/19/2013 20:39	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-091213-ML02-4-D Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7198160
LL Group # 1418916
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/12/2013 10:45 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/13/2013 19:25
Reported: 10/18/2013 08:03

EIS4D SDG#: POM78-03FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL purge							
02898	Carbon Tetrachloride	56-23-5	1.0 U		1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	3.5 J		1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U		1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	4.2 J		1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	670		10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	220		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	11		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U		1.0	5.0	10
02898	Trichloroethene	79-01-6	30		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	130		1.0	5.0	10
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	6.3		1.0	5.0	1
07105	Ethene	74-85-1	9.3		1.0	5.0	1
07105	Methane	74-82-8	920		30	50	10

General Sample Comments

State of New Jersey Lab Certification No. PA011
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 8.0-12.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 15:06	Jason M Long	10
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	G132601AA	09/17/2013 15:28	Jason M Long	100
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132601AA	09/17/2013 15:06	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132601AA	09/17/2013 15:28	Jason M Long	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132620031A	09/19/2013 20:57	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132620031A	09/20/2013 09:31	Elizabeth J Marin	10

*=This limit was used in the evaluation of the final result

Sample Description: GW-091213-ML02-3 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7198161
LL Group # 1418916
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/12/2013 12:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/13/2013 19:25
Reported: 10/18/2013 08:03

EIS03 SDG#: POM78-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL purge							
02898	Carbon Tetrachloride	56-23-5	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	3.5		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	4.4		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	660		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	240		5.0	25	50
02898	Tetrachloroethene	127-18-4	5.4		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U		0.5	2.5	5
02898	Trichloroethene	79-01-6	23		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	130		5.0	25	50
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	6.5		1.0	5.0	1
07105	Ethene	74-85-1	9.1		1.0	5.0	1
07105	Methane	74-82-8	840		30	50	10

General Sample Comments

State of New Jersey Lab Certification No. PA011
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 8.0-12.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 15:50	Jason M Long	5
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	G132601AA	09/17/2013 16:11	Jason M Long	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132601AA	09/17/2013 15:50	Jason M Long	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132601AA	09/17/2013 16:11	Jason M Long	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132620031A	09/19/2013 21:14	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132620031A	09/20/2013 09:48	Elizabeth J Marin	10

*=This limit was used in the evaluation of the final result

Sample Description: GW-091213-ML02-2 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7198162
LL Group # 1418916
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/12/2013 14:50 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/13/2013 19:25
Reported: 10/18/2013 08:03

EIS02 SDG#: POM78-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
		SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	0.2 U		0.2	1.0	2
02898	1,1-Dichloroethane	75-34-3	2.6		0.2	1.0	2
02898	1,2-Dichloroethane	107-06-2	0.2 U		0.2	1.0	2
02898	1,1-Dichloroethene	75-35-4	3.5		0.2	1.0	2
02898	cis-1,2-Dichloroethene	156-59-2	460		2.0	10	20
02898	trans-1,2-Dichloroethene	156-60-5	170		2.0	10	20
02898	Tetrachloroethene	127-18-4	9.7		0.2	1.0	2
02898	1,1,1-Trichloroethane	71-55-6	0.2 U		0.2	1.0	2
02898	Trichloroethene	79-01-6	32		0.2	1.0	2
02898	Vinyl Chloride	75-01-4	87		2.0	10	20
GC Miscellaneous							
		RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	4.7 J		1.0	5.0	1
07105	Ethene	74-85-1	5.9		1.0	5.0	1
07105	Methane	74-82-8	690		15	25	5

General Sample Comments

State of New Jersey Lab Certification No. PA011
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 8.0-12.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 16:33	Jason M Long	2
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 16:55	Jason M Long	20
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132601AA	09/17/2013 16:33	Jason M Long	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132601AA	09/17/2013 16:55	Jason M Long	20
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132620031A	09/19/2013 21:32	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132620031A	09/20/2013 10:06	Elizabeth J Marin	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-091213-ML02-7 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7198163
LL Group # 1418916
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/12/2013 16:02 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/13/2013 19:25
Reported: 10/18/2013 08:03

EIS07 SDG#: POM78-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
		SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	0.2 U		0.2	1.0	2
02898	1,1-Dichloroethane	75-34-3	1.1		0.2	1.0	2
02898	1,2-Dichloroethane	107-06-2	0.2 U		0.2	1.0	2
02898	1,1-Dichloroethene	75-35-4	0.4 J		0.2	1.0	2
02898	cis-1,2-Dichloroethene	156-59-2	68		2.0	10	20
02898	trans-1,2-Dichloroethene	156-60-5	5.0		0.2	1.0	2
02898	Tetrachloroethene	127-18-4	0.2 U		0.2	1.0	2
02898	1,1,1-Trichloroethane	71-55-6	0.2 U		0.2	1.0	2
02898	Trichloroethene	79-01-6	0.4 J		0.2	1.0	2
02898	Vinyl Chloride	75-01-4	100		2.0	10	20
GC Miscellaneous							
		RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	4.9 J		1.0	5.0	1
07105	Ethene	74-85-1	22		1.0	5.0	1
07105	Methane	74-82-8	2,900		60	100	20

General Sample Comments

State of New Jersey Lab Certification No. PA011
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 8.0-12.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 17:17	Jason M Long	2
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 17:38	Jason M Long	20
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132601AA	09/17/2013 17:17	Jason M Long	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132601AA	09/17/2013 17:38	Jason M Long	20
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132620031A	09/19/2013 21:50	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132620031A	09/20/2013 10:24	Elizabeth J Marin	20

*=This limit was used in the evaluation of the final result

Sample Description: GW-091313-EW01-LOWER Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7198164
LL Group # 1418916
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/13/2013 09:37 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/13/2013 19:25
Reported: 10/18/2013 08:03

EISE1 SDG#: POM78-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	4.0		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	5.3		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	750		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	300		5.0	25	50
02898	Tetrachloroethene	127-18-4	8.9		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U		0.5	2.5	5
02898	Trichloroethene	79-01-6	51		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	160		5.0	25	50
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	8.5		1.0	5.0	1
07105	Ethene	74-85-1	10		1.0	5.0	1
07105	Methane	74-82-8	1,300		30	50	10

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 18:00	Jason M Long	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 18:21	Jason M Long	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132601AA	09/17/2013 18:00	Jason M Long	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132601AA	09/17/2013 18:21	Jason M Long	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132620031A	09/19/2013 22:26	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132620031A	09/20/2013 10:42	Elizabeth J Marin	10

*=This limit was used in the evaluation of the final result

Sample Description: GW-091313-EW01-UPPER Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7198165
LL Group # 1418916
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/13/2013 11:09 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/13/2013 19:25
Reported: 10/18/2013 08:03

EISE2 SDG#: POM78-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL purge							
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.2 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	20		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	13		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	22		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	0.1 J		0.1	0.5	1
02898	Trichloroethene	79-01-6	22		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	0.7		0.1	0.5	1
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 18:43	Jason M Long	1
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 19:05	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132601AA	09/17/2013 18:43	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132601AA	09/17/2013 19:05	Jason M Long	10
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132620031A	09/19/2013 22:44	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: W-091213-FB-ML02-7 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7198166
LL Group # 1418916
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/12/2013 15:32 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/13/2013 19:25
Reported: 10/18/2013 08:03

EISF7 SDG#: POM78-09FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011
The temperature of the temperature blank bottle(s) upon receipt at the lab was 6.8 C using a digital thermometer. The sample bottles were then measured using an IR thermometer and were recorded at 8.0-12.0 C.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 11:49	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132601AA	09/17/2013 11:49	Jason M Long	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132620031A	09/19/2013 23:02	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: W-091313-FB-EW01-LOWER Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7198167
LL Group # 1418916
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/13/2013 10:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/13/2013 19:25
Reported: 10/18/2013 08:03

EISF1 SDG#: POM78-10FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	0.1 U	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U	0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U	0.1	0.5	1
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U	1.0	5.0	1
07105	Ethene	74-85-1	1.0 U	1.0	5.0	1
07105	Methane	74-82-8	3.0 U	3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 12:33	Jason M Long	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132601AA	09/17/2013 12:33	Jason M Long	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132620031A	09/19/2013 23:20	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: W-091313-TB Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7198168
LL Group # 1418916
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/13/2013 09:37 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/13/2013 19:25
Reported: 10/18/2013 08:03

EIST1 SDG#: POM78-11TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132601AA	09/17/2013 12:11	Jason M Long	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132601AA	09/17/2013 12:11	Jason M Long	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132620031A	09/19/2013 19:08	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 10/18/13 at 08:03 AM

Group Number: 1418916

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: G132601AA Sample number(s): 7198156-7198168									
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	107		80-129		
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	98		80-120		
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	104		80-127		
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	103		80-123		
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	103		80-120		
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	109		80-120		
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	118		80-120		
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	109		80-120		
Trichloroethene	0.1 U	0.1	0.5	ug/l	111		80-120		
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	90		65-127		
Batch number: 132620031A Sample number(s): 7198157-7198168									
Ethane	1.0 U	1.0	5.0	ug/l	98		80-120		
Ethene	1.0 U	1.0	5.0	ug/l	99		80-120		
Methane	3.0 U	3.0	5.0	ug/l	101		80-120		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: G132601AA Sample number(s): 7198156-7198168 UNSPK: 7198157									
Carbon Tetrachloride	106	103	81-148	3	30				
1,1-Dichloroethane	97	93	88-136	4	30				
1,2-Dichloroethane	103	99	82-135	4	30				
1,1-Dichloroethene	100	96	83-150	4	30				
cis-1,2-Dichloroethene	108 (2)	57 (2)	82-129	4	30				
trans-1,2-Dichloroethene	112 (2)	90 (2)	88-127	4	30				
Tetrachloroethene	117	110	75-129	5	30				
1,1,1-Trichloroethane	106	103	85-140	2	30				
Trichloroethene	111	104	85-131	4	30				
Vinyl Chloride	100	77	62-135	7	30				
Batch number: 132620031A Sample number(s): 7198157-7198168 UNSPK: 7198157									
Ethane	96	90	32-129	5	20				
Ethene	117	113	35-162	3	20				
Methane	-2 (2)	-198 (2)	35-157	14	20				

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 10/18/13 at 08:03 AM

Group Number: 1418916

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
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Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles
Batch number: G132601AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7198156	104	99	97	94
7198157	105	101	98	95
7198158	105	98	99	95
7198159	104	100	98	96
7198160	104	99	98	96
7198161	104	99	98	95
7198162	105	102	97	95
7198163	105	99	99	94
7198164	103	99	98	94
7198165	105	99	98	95
7198166	105	103	98	95
7198167	104	100	99	95
7198168	104	98	97	96
Blank	105	102	98	95
LCS	104	100	100	95
MS	105	98	99	95
MSD	104	100	98	96
Limits:	77-114	74-113	77-110	78-110

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 132620031A
Propene

7198157	88
7198158	87
7198159	82
7198160	89
7198161	93
7198162	86
7198163	79
7198164	89
7198165	91
7198166	96
7198167	90
7198168	92
Blank	75
LCS	95
MS	87

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 10/18/13 at 08:03 AM

Group Number: 1418916

Surrogate Quality Control

MSD 82

Limits: 42-131

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



Lancaster Laboratories

Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only

Group No.: 1418916 Sample Nos.: 7198156-68
 Acc't: 07032 SF: 178283 SCR No.: 144881 Cooler No.: C05755 **26472**
 Cooler Temperature upon receipt: 8.0-12.0 °C Container No.: 1

Facility Name: Pompton Lakes		Project Manager: George Nemeth		Analyses Required										Comments:									
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735																					
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																					
2000 Cannonball Road		Release No.:																					
Pompton Lakes NJ 07442		PO Number: LBIO-66380																					
Sampler(s): <u>G. Nemeth / M. Ng</u>		Project Name: EISB MONITORING PROGRAM 2013		Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)											Condition upon receipt: <u>intact</u>							
Sample Identification		Date Collected	Time Collected			Matrix	Containers																
							Volume (ml)	Preserv	No.														
GW-091213-MLO2-4		9/12/13	1045			WW	40	HCl	3		X											MS	
GW-						WW	40	HCl	2	X											MS		
GW-						WW	40	HCl	3		X											MSD	
GW-						WW	40	HCl	2	X											MSD		
GW-		-D		WW	40	HCl	3		X														
GW-		-D		WW	40	HCl	2	X															
Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>				Special Instructions: <u>Full Deliverables needed</u>																			
Bottles Relinquished by: <u>Abi Migonke</u>		Date: <u>9/9/13</u>	Time: <u>10:25</u>	Bottles Received by: <u>George Nemeth</u>		Date: <u>9/10/13</u>	Time: <u>2:40</u>																
Bottles Relinquished by: <u>George Nemeth</u>		Date: <u>9/13/13</u>	Time: <u>12:32</u>	Bottles Received by: <u>Wendy Bellentune</u>		Date: <u>9/13/13</u>	Time: <u>14:35</u>																
Bottles Relinquished by: <u>Wendy Bellentune</u>		Date: <u>9/13/13</u>	Time: <u>19:25</u>	Bottles Received by:		Date:	Time:																
Bottles Relinquished by:		Date:	Time:	Bottles Received by:		Date: <u>9/13/13</u>	Time: <u>19:25</u>																

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300



Lancaster Laboratories

Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only

Group No.: 141896 Sample Nos.: 7198156-68
 Acc't: 07032 SF: 178283 SCR No.: 144881 Cooler No.: C05755 **26472**
 Cooler Temperature upon receipt: 8.0-12.0 °C Container No.: 1

Facility Name: Pompton Lakes		Project Manager: George Nemeth		Analyses Required										Comments:		
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735														
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882														
2000 Cannonball Road		Release No.:														
Pompton Lakes NJ 07442		PO Number: LBIO-66380														
Sampler(s): <u>G. Nemeth / M. Ng</u>				Methane, Ethane, Ethene (RSK-175)		POM Site List of Volatiles (8260)										
Project Name: EISB MONITORING PROGRAM 2013		Date Collected		Time Collected		Matrix		Containers					Condition upon receipt:			
								Volume (ml)			Preserv		No.			
W-091213- FB-MLO2-7		09/12/13		1532		WW		40			HCl		3		X	
W-091213 - FB-MLO2-7		↓		↓		WW		40			HCl		2		X	

Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>				Special Instructions: Full Deliverables needed							
Bottles Relinquished by: <u>Lyn Micaelka</u>		Date: <u>9/9/13</u>		Time: <u>10:25</u>		Bottles Received by: <u>George Nemeth</u>		Date: <u>9/10/13</u>		Time: <u>~1400</u>	
Bottles Relinquished by: <u>George Nemeth</u>		Date: <u>9/13/13</u>		Time: <u>1232</u>		Bottles Received by: <u>George Nemeth</u>		Date: <u>9/13/13</u>		Time: <u>1435</u>	
Bottles Relinquished by: <u>George Nemeth</u>		Date: <u>9/13/13</u>		Time: <u>1425</u>		Bottles Received by: <u>George Nemeth</u>		Date:		Time:	
Bottles Relinquished by:		Date:		Time:		Bottles Received by:		Date: <u>9/13/13</u>		Time: <u>1925</u>	

Environmental Sample Administration
Receipt Documentation Log

1418916

Client/Project: Dupont Pompton Lakes

Shipping Container Sealed: YES NO

Date of Receipt: 9/13/13

Custody Seal Present * : YES NO

Time of Receipt: 1925

* Custody seal was intact unless otherwise noted in the discrepancy section

Source Code: 01

Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121 3258	6.8	TB ST	WI	Y	B	8.0' 12.0' 8.4' 8.4' 10.7'
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 1

Paperwork Discrepancy/Unpacking Problems:

Temp bottle not near ice

57 vials for M202-5 received with X through label and has do. not
sun written on label

Unpacker Signature/Emp#: [Signature] 2308 Date/Time: 9/13/13 2004

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

Inorganic Qualifiers

A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

October 08, 2013

Project: POM - EISB MONITORING PROGRAM

Submission Date: 09/26/2013

Group Number: 1421830

SDG: POM80

PO Number: LBIO-66380

State of Sample Origin: NJ

Client Sample Description

Lancaster Labs (LL) #

GW-092413-ML02-6 Groundwater	7214023
GW-092413-ML04-1 Groundwater	7214024
GW-092413-ML02-4 Groundwater	7214025
GW-092413-ML02-5 Groundwater	7214026
GW-092413-ML04-6 Groundwater	7214027
GW-092413-ML02-3 Groundwater	7214028
GW-092413-ML02-2 Groundwater	7214029
GW-092413-ML02-2-D Groundwater	7214030
GW-092413-ML04-5 Groundwater	7214031
GW-092413-ML02-7 Groundwater	7214032
GW-092413-ML04-4 Groundwater	7214033
GW-092413-ML04-3 Groundwater	7214034
GW-092513-ML04-2 Groundwater	7214035
GW-092513-EW01-UPPER Groundwater	7214036
GW-092513-ML04-7 Groundwater	7214037
GW-092513-EW01-LOWER Groundwater	7214038
GW-092513-EW01-LOWER MS Groundwater	7214039
GW-092513-EW01-LOWER MSD Groundwater	7214040
W-092413-FB-ML02-4 Blank Water	7214041
W-092413-TB-ML02-5 Blank Water	7214042
W-092513-TB-ML04-7 Blank Water	7214043
W-092513-FB-ML04-7 Blank Water	7214044

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

1 COPY TO Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: GW-092413-ML02-6 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214023
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 10:40 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

ML026 SDG#: POM80-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.3 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	23		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	16		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	24		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	23		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	0.8		0.1	0.5	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

Wet Chemistry		SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	0.91 J	0.50	1.0	1
	The reported result is the average of the following trials:					
	0.903	mg/l				
	0.919	mg/l				
	0.931	mg/l				
	0.87	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	G132711AA	09/28/2013 15:02	Lauren C Temple	1
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	G132711AA	09/28/2013 15:23	Lauren C Temple	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132711AA	09/28/2013 15:02	Lauren C Temple	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132711AA	09/28/2013 15:23	Lauren C Temple	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13273049501A	09/30/2013 03:21	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092413-ML04-1 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214024
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 10:57 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

ML041 SDG#: POM80-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
		SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 J		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.2 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	21		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	8.4		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	22		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	0.3 J		0.1	0.5	1
02898	Trichloroethene	79-01-6	17		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	1.0		0.1	0.5	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

Wet Chemistry		SW-846 9060A	mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	0.50 U		0.50	1.0	1
	The reported result is the average of the following trials:						
	0	mg/l					
	0	mg/l					
	0	mg/l					
	0	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	G132711AA	09/28/2013 14:40	Lauren C Temple	1
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	G132731AA	09/30/2013 10:54	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132711AA	09/28/2013 14:40	Lauren C Temple	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132731AA	09/30/2013 10:54	Jason M Long	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13273049501A	09/30/2013 03:50	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092413-ML02-4 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214025
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 12:05 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

ML024 SDG#: POM80-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	4.2		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.6		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	710		10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	240		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	4.9		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	13		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	140		1.0	5.0	10

The LCS and/or LCS D recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l
07105	Ethane	74-84-0	7.6	1.0
07105	Ethene	74-85-1	12	1.0
07105	Methane	74-82-8	1,100	15

Wet Chemistry	SW-846 9060A	mg/l	mg/l	mg/l
00354	Total Organic Carbon (Quad)	n.a.	34.3	0.50

The reported result is the average of the following trials:

34.493	mg/l
34.274	mg/l
34.034	mg/l
34.467	mg/l

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 15:45	Lauren C Temple	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 16:07	Lauren C Temple	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132731AA	09/30/2013 13:04	Jason M Long	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132711AA	09/28/2013 15:45	Lauren C Temple	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132711AA	09/28/2013 16:07	Lauren C Temple	10
01163	GC/MS VOA Water Prep	SW-846 5030B	3	G132731AA	09/30/2013 13:04	Jason M Long	100

*=This limit was used in the evaluation of the final result

Sample Description: GW-092413-ML02-4 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214025
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 12:05 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

ML024 SDG#: POM80-03

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/03/2013	20:27	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/04/2013	11:28	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13273049501A	09/30/2013	04:35	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092413-ML02-5 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214026
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 11:20 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

ML025 SDG#: POM80-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1	U	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	3.6		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1	U	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	4.4		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	500		10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	140		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	18		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1	U	0.1	0.5	1
02898	Trichloroethene	79-01-6	45		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	120		1.0	5.0	10

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

Wet Chemistry	SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	63.8	0.50	1.0
	The reported result is the average of the following trials:				
	64.19	mg/l			
	63.202	mg/l			
	64.238	mg/l			
	63.757	mg/l			

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 16:28	Lauren C Temple	1
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 16:50	Lauren C Temple	10
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132731AA	09/30/2013 13:25	Jason M Long	100
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132711AA	09/28/2013 16:28	Lauren C Temple	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132711AA	09/28/2013 16:50	Lauren C Temple	10
01163	GC/MS VOA Water Prep	SW-846 5030B	3	G132731AA	09/30/2013 13:25	Jason M Long	100
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13273049501A	09/30/2013 05:21	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092413-ML04-6 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214027
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 12:14 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

ML046 SDG#: POM80-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 J		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.5 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	35		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	20		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	24		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	25		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	1.1		0.1	0.5	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

Wet Chemistry SW-846 9060A		mg/l	mg/l	mg/l
00354	Total Organic Carbon (Quad)	n.a.	1.5	0.50
The reported result is the average of the following trials:				
	1.487	mg/l		
	1.487	mg/l		
	1.482	mg/l		
	1.446	mg/l		

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 17:11	Lauren C Temple	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 17:33	Lauren C Temple	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132711AA	09/28/2013 17:11	Lauren C Temple	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132711AA	09/28/2013 17:33	Lauren C Temple	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13273049501A	09/30/2013 06:06	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092413-ML02-3 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214028
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 12:50 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

ML023 SDG#: POM80-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	3.8		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	4.6		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	770		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	280		5.0	25	50
02898	Tetrachloroethene	127-18-4	2.1 J		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U		0.5	2.5	5
02898	Trichloroethene	79-01-6	11		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	140		5.0	25	50

The LCS and/or LCS D recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l		
07105	Ethane	74-84-0	6.9	1.0	5.0	1
07105	Ethene	74-85-1	9.2	1.0	5.0	1
07105	Methane	74-82-8	860	15	25	5

Wet Chemistry	SW-846 9060A	mg/l	mg/l	mg/l		
00354	Total Organic Carbon (Quad)	n.a.	44.6	0.50	1.0	1
The reported result is the average of the following trials:						
	45.076	mg/l				
	44.292	mg/l				
	44.778	mg/l				
	44.247	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 17:55	Lauren C Temple	5
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 18:16	Lauren C Temple	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132711AA	09/28/2013 17:55	Lauren C Temple	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132711AA	09/28/2013 18:16	Lauren C Temple	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/03/2013 20:45	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092413-ML02-3 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214028
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 12:50 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

ML023 SDG#: POM80-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/04/2013 11:46	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13273049501A	09/30/2013 06:36	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092413-ML02-2 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214029
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 13:40 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

ML022 SDG#: POM80-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	1.0 U		1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	3.1 J		1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U		1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	3.9 J		1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	620		10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	220		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	5.4		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U		1.0	5.0	10
02898	Trichloroethene	79-01-6	24		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	110		1.0	5.0	10

The LCS and/or LCS D recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	6.3	1.0	5.0	1
07105	Ethene	74-85-1	8.2	1.0	5.0	1
07105	Methane	74-82-8	790	15	25	5

Wet Chemistry	SW-846 9060A	mg/l	mg/l	mg/l		
00354	Total Organic Carbon (Quad)	n.a.	41.9	0.50	1.0	1

The reported result is the average of the following trials:

41.718	mg/l
41.641	mg/l
42.363	mg/l
41.799	mg/l

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 18:38	Lauren C Temple	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 19:00	Lauren C Temple	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132711AA	09/28/2013 18:38	Lauren C Temple	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132711AA	09/28/2013 19:00	Lauren C Temple	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/03/2013 21:03	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092413-ML02-2 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214029
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 13:40 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

ML022 SDG#: POM80-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/04/2013 12:05	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13273049501A	09/30/2013 07:06	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092413-ML02-2-D Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214030
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 13:40 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

M022D SDG#: POM80-08FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	1.0 U		1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	3.3 J		1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U		1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	3.9 J		1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	660		10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	220		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	5.4		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U		1.0	5.0	10
02898	Trichloroethene	79-01-6	24		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	110		1.0	5.0	10

The LCS and/or LCS D recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

GC	Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	5.9	1.0	5.0	1
07105	Ethene	74-85-1	7.4	1.0	5.0	1
07105	Methane	74-82-8	780	15	25	5

Wet Chemistry	SW-846 9060A	mg/l	mg/l	mg/l		
00354	Total Organic Carbon (Quad)	n.a.	41.5	0.50	1.0	1

The reported result is the average of the following trials:

41.505	mg/l
41.313	mg/l
41.653	mg/l
41.332	mg/l

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 19:22	Lauren C Temple	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 19:43	Lauren C Temple	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132711AA	09/28/2013 19:22	Lauren C Temple	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132711AA	09/28/2013 19:43	Lauren C Temple	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/03/2013 21:22	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092413-ML02-2-D Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214030
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 13:40 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05

Reported: 10/08/2013 15:37

M022D SDG#: POM80-08FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/04/2013 12:23	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13273049501A	09/30/2013 07:52	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092413-ML04-5 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214031
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 13:55 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

ML045 SDG#: POM80-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.2 U		0.2	1.0	2
02898	1,1-Dichloroethane	75-34-3	0.9 J		0.2	1.0	2
02898	1,2-Dichloroethane	107-06-2	0.2 U		0.2	1.0	2
02898	1,1-Dichloroethene	75-35-4	1.3		0.2	1.0	2
02898	cis-1,2-Dichloroethene	156-59-2	150		2.0	10	20
02898	trans-1,2-Dichloroethene	156-60-5	55		2.0	10	20
02898	Tetrachloroethene	127-18-4	23		0.2	1.0	2
02898	1,1,1-Trichloroethane	71-55-6	0.2 U		0.2	1.0	2
02898	Trichloroethene	79-01-6	47		0.2	1.0	2
02898	Vinyl Chloride	75-01-4	28		0.2	1.0	2

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

Wet Chemistry	SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	2.2	0.50	1.0
	The reported result is the average of the following trials:				
	2.215	mg/l			
	2.156	mg/l			
	2.22	mg/l			
	2.151	mg/l			

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 20:05	Lauren C Temple	2
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 20:27	Lauren C Temple	20
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132711AA	09/28/2013 20:05	Lauren C Temple	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132711AA	09/28/2013 20:27	Lauren C Temple	20
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13273049501A	09/30/2013 08:22	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092413-ML02-7 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214032
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 14:35 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

ML027 SDG#: POM80-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	1.2		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.5 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	64		0.5	2.5	5
02898	trans-1,2-Dichloroethene	156-60-5	4.3		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.3 J		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	100		0.5	2.5	5

The LCS and/or LCS D recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l
07105	Ethane	74-84-0	3.6 J	1.0
07105	Ethene	74-85-1	15	1.0
07105	Methane	74-82-8	4,300	30

Wet Chemistry	SW-846 9060A	mg/l	mg/l	mg/l
00354	Total Organic Carbon (Quad)	n.a.	29.6	0.50

The reported result is the average of the following trials:

30.031	mg/l
28.968	mg/l
30.036	mg/l
29.493	mg/l

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 20:48	Lauren C Temple	5
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132731AA	09/30/2013 12:42	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132711AA	09/28/2013 20:48	Lauren C Temple	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132731AA	09/30/2013 12:42	Jason M Long	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/03/2013 21:39	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092413-ML02-7 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214032
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 14:35 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

ML027 SDG#: POM80-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/04/2013 12:41	Elizabeth J Marin	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13273049501A	09/30/2013 09:07	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092413-ML04-4 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214033
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 15:01 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

ML044 SDG#: POM80-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	0.2 U		0.2	1.0	2
02898	1,1-Dichloroethane	75-34-3	3.4		0.2	1.0	2
02898	1,2-Dichloroethane	107-06-2	0.2 U		0.2	1.0	2
02898	1,1-Dichloroethene	75-35-4	4.1		0.2	1.0	2
02898	cis-1,2-Dichloroethene	156-59-2	500		2.0	10	20
02898	trans-1,2-Dichloroethene	156-60-5	170		2.0	10	20
02898	Tetrachloroethene	127-18-4	27		0.2	1.0	2
02898	1,1,1-Trichloroethane	71-55-6	0.2 U		0.2	1.0	2
02898	Trichloroethene	79-01-6	61		2.0	10	20
02898	Vinyl Chloride	75-01-4	110		2.0	10	20

The LCS and/or LCS D recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l		
07105	Ethane	74-84-0	6.7	1.0	5.0	1
07105	Ethene	74-85-1	8.8	1.0	5.0	1
07105	Methane	74-82-8	870	15	25	5

Wet Chemistry	SW-846 9060A	mg/l	mg/l	mg/l		
00354	Total Organic Carbon (Quad)	n.a.	4.4	0.50	1.0	1
The reported result is the average of the following trials:						
	4.176	mg/l				
	4.341	mg/l				
	4.411	mg/l				
	4.755	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 21:31	Lauren C Temple	2
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 21:53	Lauren C Temple	20
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132711AA	09/28/2013 21:31	Lauren C Temple	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132711AA	09/28/2013 21:53	Lauren C Temple	20
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/03/2013 21:57	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092413-ML04-4 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214033
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 15:01 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

ML044 SDG#: POM80-11

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/04/2013 12:59	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13274049503A	10/01/2013 03:09	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092413-ML04-3 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214034
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 15:50 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

ML043 SDG#: POM80-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	3.5		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	4.6		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	480		2.0	10	20
02898	trans-1,2-Dichloroethene	156-60-5	170		2.0	10	20
02898	Tetrachloroethene	127-18-4	13		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	43		2.0	10	20
02898	Vinyl Chloride	75-01-4	95		2.0	10	20

The LCS and/or LCS D recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance: Vinyl Chloride

GC Miscellaneous	RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	6.7	1.0	5.0
07105	Ethene	74-85-1	8.8	1.0	5.0
07105	Methane	74-82-8	790	15	25

Wet Chemistry	SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	7.0	0.50	1.0

The reported result is the average of the following trials:

6.901	mg/l
7.18	mg/l
6.981	mg/l
7.024	mg/l

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 22:15	Lauren C Temple	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132711AA	09/28/2013 22:37	Lauren C Temple	20
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132711AA	09/28/2013 22:15	Lauren C Temple	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132711AA	09/28/2013 22:37	Lauren C Temple	20
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/03/2013 22:16	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092413-ML04-3 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214034
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 15:50 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

ML043 SDG#: POM80-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/04/2013 13:17	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13274049503A	10/01/2013 03:39	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092513-ML04-2 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214035
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/25/2013 09:32 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

ML042 SDG#: POM80-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
		SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	1.0 U		1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	3.3 J		1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U		1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	4.9 J		1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	600		10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	220		10	50	100
02898	Tetrachloroethene	127-18-4	1.0 U		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U		1.0	5.0	10
02898	Trichloroethene	79-01-6	23		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	110		1.0	5.0	10
GC Miscellaneous							
		RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	6.1		1.0	5.0	1
07105	Ethene	74-85-1	7.5		1.0	5.0	1
07105	Methane	74-82-8	710		15	25	5
Wet Chemistry							
		SW-846 9060A	mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	19.9		0.50	1.0	1
	The reported result is the average of the following trials:						
		19.963	mg/l				
		19.925	mg/l				
		19.901	mg/l				
		19.864	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132731AA	09/30/2013 15:32	Jason M Long	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I132751AA	10/02/2013 17:42	Jason M Long	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132731AA	09/30/2013 15:32	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I132751AA	10/02/2013 17:42	Jason M Long	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/03/2013 22:52	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/04/2013 13:35	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13274049503A	10/01/2013 04:25	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: **GW-092513-EW01-UPPER Groundwater**
EISB MONITORING PROGRAM 2013

LL Sample # **WW 7214036**
LL Group # **1421830**
Account # **07032**

Project Name: **POM - EISB MONITORING PROGRAM**

Collected: 09/25/2013 10:30 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

EW1UP SDG#: POM80-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.2 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	20		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	13		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	21		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	0.1 J		0.1	0.5	1
02898	Trichloroethene	79-01-6	22		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	0.7		0.1	0.5	1
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1
Wet Chemistry SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	0.50 U		0.50	1.0	1
The reported result is the average of the following trials:							
	0.296	mg/l					
	0.233	mg/l					
	0.26	mg/l					
	0.222	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132731AA	09/30/2013 15:54	Jason M Long	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132731AA	09/30/2013 16:15	Jason M Long	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132731AA	09/30/2013 15:54	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	G132731AA	09/30/2013 16:15	Jason M Long	10
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/03/2013 23:10	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13274049503A	10/01/2013 04:54	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092513-EW01-LOWER MS Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214039
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/25/2013 12:08 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

EW1LW SDG#: POM80-16MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	28		2.5	5
02898	1,1-Dichloroethane	75-34-3	30		2.5	5
02898	1,2-Dichloroethane	107-06-2	25		2.5	5
02898	1,1-Dichloroethene	75-35-4	34		2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	700	E	2.5	5
02898	trans-1,2-Dichloroethene	156-60-5	290	E	2.5	5
02898	Tetrachloroethene	127-18-4	36		2.5	5
02898	1,1,1-Trichloroethane	71-55-6	29		2.5	5
02898	Trichloroethene	79-01-6	76		2.5	5
02898	Vinyl Chloride	75-01-4	160	E	2.5	5
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	72		5.0	1
07105	Ethene	74-85-1	82		5.0	1
07105	Methane	74-82-8	1,100	E	5.0	1
Wet Chemistry						
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	18.3		1.0	1
	The reported result is the average of the following trials:					
	18.265	mg/l				
	18.379	mg/l				
	18.317	mg/l				
	18.361	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132731AA	09/30/2013 14:07	Jason M Long	5
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132731AA	09/30/2013 14:07	Jason M Long	5
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/04/2013 00:04	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13274049503A	10/01/2013 06:39	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-092513-EW01-LOWER MSD Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214040
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/25/2013 12:08 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

EW1LW SDG#: POM80-16MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	28		2.5	5
02898	1,1-Dichloroethane	75-34-3	29		2.5	5
02898	1,2-Dichloroethane	107-06-2	25		2.5	5
02898	1,1-Dichloroethene	75-35-4	33		2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	690	E	2.5	5
02898	trans-1,2-Dichloroethene	156-60-5	290	E	2.5	5
02898	Tetrachloroethene	127-18-4	35		2.5	5
02898	1,1,1-Trichloroethane	71-55-6	28		2.5	5
02898	Trichloroethene	79-01-6	75		2.5	5
02898	Vinyl Chloride	75-01-4	150	E	2.5	5
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	72		5.0	1
07105	Ethene	74-85-1	84		5.0	1
07105	Methane	74-82-8	1,100	E	5.0	1
Wet Chemistry						
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	18.4		1.0	1
	The reported result is the average of the following trials:					
	18.563	mg/l				
	18.411	mg/l				
	18.503	mg/l				
	18.218	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132731AA	09/30/2013 14:29	Jason M Long	5
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132731AA	09/30/2013 14:29	Jason M Long	5
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/04/2013 00:22	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13274049503A	10/01/2013 07:25	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: W-092413-FB-ML02-4 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214041
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 15:30 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

FBM24 SDG#: POM80-17FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1
Wet Chemistry	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	0.50 U		0.50	1.0	1
	The reported result is the average of the following trials:						
	0	mg/l					
	0	mg/l					
	0	mg/l					
	0	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132731AA	09/30/2013 17:20	Jason M Long	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132731AA	09/30/2013 17:20	Jason M Long	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/04/2013 00:40	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13274049503A	10/01/2013 07:55	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: W-092413-TB-ML02-5 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214042
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/24/2013 09:24 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

TBM25 SDG#: POM80-18TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l	ug/l	ug/l		
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132731AA	09/30/2013 17:41	Jason M Long	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132731AA	09/30/2013 17:41	Jason M Long	1

*=This limit was used in the evaluation of the final result

Sample Description: W-092513-TB-ML04-7 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214043
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/25/2013 12:00 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

TBM47 SDG#: POM80-19TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132731AA	09/30/2013 18:24	Jason M Long	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132731AA	09/30/2013 18:24	Jason M Long	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/04/2013 00:59	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: W-092513-FB-ML04-7 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7214044
LL Group # 1421830
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 09/25/2013 10:45 by MM

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 09/26/2013 09:05
Reported: 10/08/2013 15:37

FBM47 SDG#: POM80-20FB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1 ug/l	0.5 ug/l	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1 ug/l	0.5 ug/l	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1 ug/l	0.5 ug/l	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1 ug/l	0.5 ug/l	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1 ug/l	0.5 ug/l	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1 ug/l	0.5 ug/l	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1 ug/l	0.5 ug/l	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1 ug/l	0.5 ug/l	1
02898	Trichloroethene	79-01-6	0.1 U		0.1 ug/l	0.5 ug/l	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1 ug/l	0.5 ug/l	1
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	1.0 U		1.0 ug/l	5.0 ug/l	1
07105	Ethene	74-85-1	1.0 U		1.0 ug/l	5.0 ug/l	1
07105	Methane	74-82-8	3.0 U		3.0 ug/l	5.0 ug/l	1
Wet Chemistry SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	0.50 U		0.50 mg/l	1.0 mg/l	1
	The reported result is the average of the following trials:						
	0	mg/l					
	0	mg/l					
	0	mg/l					
	0	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	G132731AA	09/30/2013 18:03	Jason M Long	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	G132731AA	09/30/2013 18:03	Jason M Long	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	132760034A	10/04/2013 01:18	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13274049503A	10/01/2013 08:40	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 10/08/13 at 03:37 PM

Group Number: 1421830

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>	
Batch number: G132711AA Sample number(s): 7214023-7214034										
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	97	100	80-129	3	30	
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	90	88	80-120	1	30	
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	95	96	80-127	2	30	
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	93	94	80-123	1	30	
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	96	97	80-120	1	30	
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	97	99	80-120	1	30	
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	108	109	80-120	1	30	
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	99	100	80-120	0	30	
Trichloroethene	0.1 U	0.1	0.5	ug/l	100	102	80-120	2	30	
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	64*	63*	65-127	1	30	
Batch number: G132731AA Sample number(s): 7214024-7214026, 7214032, 7214035-7214044										
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	102		80-129			
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	95		80-120			
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	99		80-127			
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	101		80-123			
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	102		80-120			
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	103		80-120			
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	114		80-120			
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	105		80-120			
Trichloroethene	0.1 U	0.1	0.5	ug/l	104		80-120			
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	87		65-127			
Batch number: I132751AA Sample number(s): 7214035										
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	94		80-120			
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	94		80-120			
Batch number: 132760034A Sample number(s): 7214025, 7214028-7214030, 7214032-7214041, 7214043-7214044										
Ethane	1.0 U	1.0	5.0	ug/l	106		80-120			
Ethene	1.0 U	1.0	5.0	ug/l	106		80-120			
Methane	3.0 U	3.0	5.0	ug/l	101		80-120			
Batch number: 13273049501A Sample number(s): 7214023-7214032										
Total Organic Carbon (Quad)	0.50 U	0.50	1.0	mg/l	105		91-113			
Batch number: 13274049503A Sample number(s): 7214033-7214041, 7214044										
Total Organic Carbon (Quad)	0.50 U	0.50	1.0	mg/l	105		91-113			

Sample Matrix Quality Control

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co

Group Number: 1421830

Reported: 10/08/13 at 03:37 PM

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u>	<u>RPD</u> <u>MAX</u>	<u>BKG</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Batch number: G132731AA	Sample number(s): 7214024-7214026,7214032,7214035-7214044 UNSPK: 7214038								
Carbon Tetrachloride	114	113	81-148	1	30				
1,1-Dichloroethane	104	101	88-136	3	30				
1,2-Dichloroethane	102	100	82-135	2	30				
1,1-Dichloroethene	114	112	83-150	2	30				
cis-1,2-Dichloroethene	63 (2)	23 (2)	82-129	1	30				
trans-1,2-Dichloroethene	93 (2)	77 (2)	88-127	1	30				
Tetrachloroethene	125	121	75-129	2	30				
1,1,1-Trichloroethane	115	114	85-140	1	30				
Trichloroethene	112	107	85-131	2	30				
Vinyl Chloride	79 (2)	65 (2)	62-135	2	30				
Batch number: I132751AA	Sample number(s): 7214035 UNSPK: P218960								
cis-1,2-Dichloroethene	102	101	82-129	2	30				
trans-1,2-Dichloroethene	106	103	88-127	2	30				
Batch number: 132760034A	Sample number(s): 7214025,7214028-7214030,7214032-7214041,7214043-7214044 UNSPK: 7214038								
Ethane	108	108	32-129	0	20				
Ethene	121	123	35-162	1	20				
Methane	-6 (2)	-105	35-157	5	20				
		(2)							
Batch number: 13273049501A	Sample number(s): 7214023-7214032 UNSPK: 7214025								
Total Organic Carbon (Quad)	89	88	63-142	0	20				
Batch number: 13274049503A	Sample number(s): 7214033-7214041,7214044 UNSPK: 7214038								
Total Organic Carbon (Quad)	106	107	63-142	1	20				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles

Batch number: G132711AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7214023	103	99	98	94
7214024	103	103	97	94
7214025	103	100	97	93
7214026	103	100	97	93
7214027	105	101	97	93
7214028	103	99	97	93
7214029	103	100	97	92
7214030	104	99	97	93
7214031	102	100	97	92
7214033	103	100	97	93
7214034	103	100	98	94

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 10/08/13 at 03:37 PM

Group Number: 1421830

Surrogate Quality Control

Blank	103	101	97	93
LCS	103	98	99	93
LCSD	103	99	98	94

Limits: 77-114 74-113 77-110 78-110

Analysis Name: GC/MS Volatiles
Batch number: G132731AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7214032	103	100	97	92
7214035	103	101	96	92
7214036	103	101	97	92
7214037	103	100	96	91
7214038	104	96	97	92
7214039	104	98	99	94
7214040	103	100	98	93
7214041	104	100	98	92
7214042	105	100	97	92
7214043	105	99	97	92
7214044	104	99	96	92
Blank	103	102	96	92
LCS	103	100	98	94
MS	104	98	99	94
MSD	103	100	98	93

Limits: 77-114 74-113 77-110 78-110

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 132760034A
Propene

7214025	83
7214028	83
7214029	93
7214030	86
7214032	71
7214033	84
7214034	94
7214035	93
7214036	89
7214037	83
7214038	75
7214039	91
7214040	92
7214041	90
7214043	92
7214044	94
Blank	94
LCS	98
MS	91
MSD	92

Limits: 42-131

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 10/08/13 at 03:37 PM

Group Number: 1421830

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



Lancaster
Laboratories

Analysis Request / Environmental Services Chain of Custody

1 of 1

For Lancaster Laboratories Use Only

Group No.: 1421830 Sample Nos.: 7214023-44

Acc't: 07032 SF: 178283 SCR No.: 144880 Cooler No.: C00761 **26467**

Cooler Temperature upon receipt: 1.4-3.2 °C Container No.: 1-2

Facility Name: Pompton Lakes		Project Manager: George Nemeth			Analyses Required										Comments:										
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735			TOC Quad (SW-846 9060A)	Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)																		
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																							
2000 Cannonball Road		Release No.:																							
Pompton Lakes NJ 07442		PO Number: LBIO-66380																							
Sampler(s): <u>Mike Miazsek + Russell Hyatt</u>		Project Name: EISB MONITORING PROGRAM 2013																							
Sample Identification	Date Collected	Time Collected	Matrix	Containers			TOC	Methane	Ethane	Ethene	POM	1	2	3	4	5	6	7	8	9	10	Condition upon receipt:			
				Volume (ml)	Preserv	No.																	intact		
W-092413 - FB-ML02-4	9/24/13	1530	WW	40	H3PO4	5	X																		
W-092413 - FB-ML02-4	↓	1530	WW	40	HCl	3				X															
W-092413 - FB-ML02-4	↓	1530	WW	40	HCl	2		X																	
W-092413 - TB-ML02-5	9/24/13	0924	WW	40	HCl	3				X															
W-092513 - TB-ML04-7	9/25/13	1200	WW	40	HCl	2																			
W-092513-FB-ML04-7	9/25/13	1045	WW	40	H ₃ PO ₄	5	X																		
W-092513-FB-ML04-7	↓	1045	WW	40	HCl					X															
W-092513-FB-ML04-7	↓	1045	WW	40	HCl			X																	
Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>				Special Instructions: Full Deliverables needed																					
Bottles Relinquished by: <u>[Signature]</u>	Date: <u>9/25/13</u>	Time: <u>1730</u>	Bottles Received by: <u>Fed Ex</u>			Date: <u>9/25/13</u>	Time: <u>1730</u>																		
Bottles Relinquished by:	Date:	Time:	Bottles Received by:			Date:	Time:																		
Bottles Relinquished by:	Date:	Time:	Bottles Received by:			Date:	Time:																		
Bottles Relinquished by:	Date:	Time:	Bottles Received by: <u>[Signature]</u>			Date: <u>9/26/13</u>	Time: <u>905</u>																		

Lancaster Laboratories, Inc. 2425 New Holland Pike Lancaster, PA 17601 (717) 656-2300

Copies: White copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the samplers.

Environmental Sample Administration

Receipt Documentation Log 1421830

Client/Project: DuPont Pompton Lakes

Shipping Container Sealed: YES NO

Date of Receipt: 9/26/13

Custody Seal Present * : YES NO

Time of Receipt: 905

* Custody seal was intact unless otherwise noted in the discrepancy section

Source Code: 50-1

Package: Chilled Not Chilled

Temperature of Shipping Containers

Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	3.2	TB	WI	Y	B	
2	↓	1.4	↓	↓	↓	↓	
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

1 TOC vial of MLO4-3 received empty

only received 2 vials for TB-MLO2-5

FB-MLO4-7 vials time=1110

Unpacker Signature/Emp#: [Signature] 2308 Date/Time: 9/26/13 1412

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

- A** TIC is a possible aldol-condensation product
- B** Analyte was also detected in the blank
- C** Pesticide result confirmed by GC/MS
- D** Compound quantitated on a diluted sample
- E** Concentration exceeds the calibration range of the instrument
- N** Presumptive evidence of a compound (TICs only)
- P** Concentration difference between primary and confirmation columns $>25\%$
- U** Compound was not detected
- X,Y,Z** Defined in case narrative

Inorganic Qualifiers

- B** Value is $<$ CRDL, but \geq IDL
- E** Estimated due to interference
- M** Duplicate injection precision not met
- N** Spike sample not within control limits
- S** Method of standard additions (MSA) used for calculation
- U** Compound was not detected
- W** Post digestion spike out of control limits
- *** Duplicate analysis not within control limits
- +** Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

December 06, 2013

Project: POM - EISB MONITORING PROGRAM

Submittal Date: 11/21/2013

Group Number: 1435828

SDG: POM96

PO Number: LBIO-66380

State of Sample Origin: NJ

Client Sample Description

Lancaster Labs (LL) #

GW-111813-ML04-4 Groundwater	7287933
GW-111913-ML02-2 Groundwater	7287934
GW-111913-ML04-2 Groundwater	7287935
GW-111913-EW01-LOWER Groundwater	7287936
GW-111913-EW01-LOWER MS Groundwater	7287937
GW-111913-EW01-LOWER MSD Groundwater	7287938
GW-111913-EW01-LOWER Dupl Groundwater	7287939
GW-111813-ML02-4 Groundwater	7287940
GW-111813-ML02-4-D Groundwater	7287941
W-111813-FB-ML04-6 Blank Water	7287942
W-111913-FB-ML04-7 Blank Water	7287943

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

1 COPY TO Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: GW-111813-ML04-4 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7287933
LL Group # 1435828
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/18/2013 15:09 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
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4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/06/2013 08:52

44EIS SDG#: POM96-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
01754	Iron	SW-846 6010B 7439-89-6	mg/l 0.553	mg/l 0.0430	mg/l 0.200	1
Wet Chemistry						
00224	Chloride	EPA 300.0 16887-00-6	mg/l 55.8	mg/l 4.0	mg/l 8.0	20
00228	Sulfate	14808-79-8	2.2 J	1.5	5.0	5
00230	Sulfide	SM 4500-S2 D-2000 18496-25-8	mg/l 0.054 U	mg/l 0.054	mg/l 0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	133315705003	12/02/2013 20:09	Katlin N Cataldi	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	133315705003	12/02/2013 11:19	James L Mertz	1
00224	Chloride	EPA 300.0	1	13329347902A	11/26/2013 09:01	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	13329347902A	11/25/2013 19:19	Sandra J Miller	5
00230	Sulfide	SM 4500-S2 D-2000	1	13329023001A	11/25/2013 08:50	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111913-ML02-2 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7287934
LL Group # 1435828
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 10:05 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/06/2013 08:52

22EIS SDG#: POM96-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
01754	Iron	SW-846 6010B 7439-89-6	mg/l 0.0430 U	mg/l 0.0430	mg/l 0.200	1
Wet Chemistry						
00224	Chloride	EPA 300.0 16887-00-6	mg/l 54.7	mg/l 4.0	mg/l 8.0	20
00228	Sulfate	14808-79-8	9.5	1.5	5.0	5
00230	Sulfide	SM 4500-S2 D-2000 18496-25-8	mg/l 0.67	mg/l 0.054	mg/l 0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	133315705003	12/02/2013 20:13	Katlin N Cataldi	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	133315705003	12/02/2013 11:19	James L Mertz	1
00224	Chloride	EPA 300.0	1	13329347902A	11/26/2013 09:50	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	13329347902A	11/25/2013 19:35	Sandra J Miller	5
00230	Sulfide	SM 4500-S2 D-2000	1	13329023001A	11/25/2013 08:50	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111913-ML04-2 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7287935
LL Group # 1435828
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 11:47 by GN

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URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/06/2013 08:52

42EIS SDG#: POM96-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
01754	Iron	SW-846 6010B 7439-89-6	mg/l 0.910	mg/l 0.0430	mg/l 0.200	1
Wet Chemistry						
00224	Chloride	EPA 300.0 16887-00-6	mg/l 51.4	mg/l 4.0	mg/l 8.0	20
00228	Sulfate	14808-79-8	6.3	1.5	5.0	5
00230	Sulfide	SM 4500-S2 D-2000 18496-25-8	mg/l 0.18	mg/l 0.054	mg/l 0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	133315705003	12/02/2013 20:25	Katlin N Cataldi	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	133315705003	12/02/2013 11:19	James L Mertz	1
00224	Chloride	EPA 300.0	1	13329347902A	11/26/2013 10:06	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	13329347902A	11/25/2013 19:52	Sandra J Miller	5
00230	Sulfide	SM 4500-S2 D-2000	1	13329023001A	11/25/2013 08:50	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111913-EW01-LOWER Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7287936
LL Group # 1435828
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 12:10 by GN

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URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/06/2013 08:52

LOWER SDG#: POM96-04BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
01754	Iron	SW-846 6010B 7439-89-6	mg/l 1.90	mg/l 0.0430	mg/l 0.200	1
Wet Chemistry						
00224	Chloride	EPA 300.0 16887-00-6	mg/l 50.4	mg/l 4.0	mg/l 8.0	20
00228	Sulfate	14808-79-8	31.3	1.5	5.0	5
00230	Sulfide	SM 4500-S2 D-2000 18496-25-8	mg/l 0.054 U	mg/l 0.054	mg/l 0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	133315705003	12/02/2013 19:47	Katlin N Cataldi	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	133315705003	12/02/2013 11:19	James L Mertz	1
00224	Chloride	EPA 300.0	1	13329347902A	11/26/2013 08:13	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	13329347902A	11/25/2013 17:58	Sandra J Miller	5
00230	Sulfide	SM 4500-S2 D-2000	1	13329023001A	11/25/2013 08:50	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111913-EW01-LOWER MS Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7287937
LL Group # 1435828
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 12:10 by GN

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URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/06/2013 08:52

LOWER SDG#: POM96-04MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
01754	Iron	SW-846 6010B 7439-89-6	6.92	mg/l 0.0430	mg/l 0.200	1
Wet Chemistry						
00224	Chloride	EPA 300.0 16887-00-6	147	mg/l 10.0	mg/l 20.0	50
00228	Sulfate	14808-79-8	82.9	mg/l 3.0	mg/l 10.0	10
00230	Sulfide	SM 4500-S2 D-2000 18496-25-8	0.47	mg/l 0.054	mg/l 0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	133315705003	12/02/2013 19:58	Katlin N Cataldi	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	133315705003	12/02/2013 11:19	James L Mertz	1
00224	Chloride	EPA 300.0	1	13329347902A	11/26/2013 08:45	Sandra J Miller	50
00228	Sulfate	EPA 300.0	1	13329347902A	11/25/2013 19:03	Sandra J Miller	10
00230	Sulfide	SM 4500-S2 D-2000	1	13329023001A	11/25/2013 08:50	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111913-EW01-LOWER MSD Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7287938
LL Group # 1435828
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 12:10 by GN

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URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/06/2013 08:52

LOWER SDG#: POM96-04MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
01754	Iron	SW-846 6010B 7439-89-6	mg/l 2.87	mg/l 0.0430	mg/l 0.200	1
Wet Chemistry						
00230	Sulfide	SM 4500-S2 D-2000 18496-25-8	mg/l 0.50	mg/l 0.054	mg/l 0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	133315705003	12/02/2013 20:02	Katlin N Cataldi	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	133315705003	12/02/2013 11:19	James L Mertz	1
00230	Sulfide	SM 4500-S2 D-2000	1	13329023001A	11/25/2013 08:50	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111913-EW01-LOWER Dupl Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7287939
LL Group # 1435828
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 12:10 by GN

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URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/06/2013 08:52

LOWER SDG#: POM96-04DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
01754	Iron	SW-846 6010B 7439-89-6	mg/l 1.84	mg/l 0.0430	mg/l 0.200	1
Wet Chemistry						
00224	Chloride	EPA 300.0 16887-00-6	mg/l 50.7	mg/l 4.0	mg/l 8.0	20
00228	Sulfate	14808-79-8	31.9	1.5	5.0	5
00230	Sulfide	SM 4500-S2 D-2000 18496-25-8	mg/l 0.054 U	mg/l 0.054	mg/l 0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	133315705003	12/02/2013 19:54	Katlin N Cataldi	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	133315705003	12/02/2013 11:19	James L Mertz	1
00224	Chloride	EPA 300.0	1	13329347902A	11/26/2013 08:29	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	13329347902A	11/25/2013 18:14	Sandra J Miller	5
00230	Sulfide	SM 4500-S2 D-2000	1	13329023001A	11/25/2013 08:50	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111813-ML02-4 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7287940
LL Group # 1435828
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/18/2013 13:45 by GN

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4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/06/2013 08:52

24EIS SDG#: POM96-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
01754	Iron	SW-846 6010B 7439-89-6	mg/l 1.17	mg/l 0.0430	mg/l 0.200	1
Wet Chemistry						
00224	Chloride	EPA 300.0 16887-00-6	mg/l 57.3	mg/l 4.0	mg/l 8.0	20
00228	Sulfate	14808-79-8	5.8	1.5	5.0	5
00230	Sulfide	SM 4500-S2 D-2000 18496-25-8	mg/l 0.11 J	mg/l 0.054	mg/l 0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	133315705003	12/02/2013 20:28	Katlin N Cataldi	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	133315705003	12/02/2013 11:19	James L Mertz	1
00224	Chloride	EPA 300.0	1	13329347902A	11/26/2013 10:22	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	13329347902A	11/25/2013 20:08	Sandra J Miller	5
00230	Sulfide	SM 4500-S2 D-2000	1	13329023001A	11/25/2013 08:50	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111813-ML02-4-D Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7287941
LL Group # 1435828
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/18/2013 13:45 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/06/2013 08:52

2DEIS SDG#: POM96-06FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
01754	Iron	SW-846 6010B 7439-89-6	mg/l 1.24	mg/l 0.0430	mg/l 0.200	1
Wet Chemistry						
00224	Chloride	EPA 300.0 16887-00-6	mg/l 61.7	mg/l 4.0	mg/l 8.0	20
00228	Sulfate	14808-79-8	6.0	1.5	5.0	5
00230	Sulfide	SM 4500-S2 D-2000 18496-25-8	mg/l 0.12 J	mg/l 0.054	mg/l 0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	133315705003	12/02/2013 20:32	Katlin N Cataldi	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	133315705003	12/02/2013 11:19	James L Mertz	1
00224	Chloride	EPA 300.0	1	13329347902A	11/26/2013 10:38	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	13329347902A	11/25/2013 20:24	Sandra J Miller	5
00230	Sulfide	SM 4500-S2 D-2000	1	13329023001A	11/25/2013 08:50	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: W-111813-FB-ML04-6 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7287942
LL Group # 1435828
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/18/2013 15:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/06/2013 08:52

F18IS SDG#: POM96-07FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals						
01754	Iron	SW-846 6010B 7439-89-6	mg/l 0.0430 U	mg/l 0.0430	mg/l 0.200	1
Wet Chemistry						
00224	Chloride	EPA 300.0 16887-00-6	mg/l 0.20 U	mg/l 0.20	mg/l 0.40	1
00228	Sulfate	14808-79-8	0.30 U	0.30	1.0	1
00230	Sulfide	SM 4500-S2 D-2000 18496-25-8	mg/l 0.054 U	mg/l 0.054	mg/l 0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	133315705003	12/02/2013 20:36	Katlin N Cataldi	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	133315705003	12/02/2013 11:19	James L Mertz	1
00224	Chloride	EPA 300.0	1	13329347902A	11/25/2013 20:40	Sandra J Miller	1
00228	Sulfate	EPA 300.0	1	13329347902A	11/25/2013 20:40	Sandra J Miller	1
00230	Sulfide	SM 4500-S2 D-2000	1	13329023001A	11/25/2013 08:50	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: W-111913-FB-ML04-7 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7287943
LL Group # 1435828
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 14:26 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/06/2013 08:52

F19IS SDG#: POM96-08FB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Metals							
01754	Iron	SW-846 6010B 7439-89-6	mg/l 0.417	mg/l	0.0430	mg/l 0.200	1
Wet Chemistry							
00224	Chloride	EPA 300.0 16887-00-6	mg/l 0.20 U	mg/l	0.20	mg/l 0.40	1
00228	Sulfate	14808-79-8	0.30 U	mg/l	0.30	1.0	1
00230	Sulfide	SM 4500-S2 D-2000 18496-25-8	mg/l 0.054 U	mg/l	0.054	mg/l 0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01754	Iron	SW-846 6010B	1	133315705003	12/02/2013 20:40	Katlin N Cataldi	1
05705	WW/TL SW 846 ICP Digest (tot)	SW-846 3010A	1	133315705003	12/02/2013 11:19	James L Mertz	1
00224	Chloride	EPA 300.0	1	13329347902A	11/25/2013 20:56	Sandra J Miller	1
00228	Sulfate	EPA 300.0	1	13329347902A	11/25/2013 20:56	Sandra J Miller	1
00230	Sulfide	SM 4500-S2 D-2000	1	13329023001A	11/25/2013 08:50	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 12/06/13 at 08:52 AM

Group Number: 1435828

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 133315705003 Iron	0.0430 U	0.0430	0.200	mg/l	96		90-112		
Batch number: 13329347902A Chloride	0.20 U	0.20	0.40	mg/l	98		90-110		
Sulfate	0.30 U	0.30	1.0	mg/l	101		90-110		
Batch number: 13329023001A Sulfide	0.054 U	0.054	0.16	mg/l	99		90-110		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 133315705003 Iron	502*	97	75-125	83*	20	1.90	1.84	3	20
Batch number: 13329347902A Chloride	97		90-110			50.4	50.7	1	20
Sulfate	103		90-110			31.3	31.9	2	20
Batch number: 13329023001A Sulfide	89	95	42-131	6	16	0.054 U	0.054 U	0 (1)	5

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



Lancaster Laboratories

Analysis Request / Environmental Services Chain of Custody

1 of 1

For Lancaster Laboratories Use Only

Group No.: 1435828 Sample Nos.: 728793343

Acc't: 07032

SCR No.: 148523

Cooler No.: 1621

27451

Cooler Temperature upon receipt: 0.2-3.2 °C

Container No.: 124

Facility Name: Pompton Lakes	Project Manager: George Nemeth	Analyses Required										Comments:	
Facility Contact: George Nemeth	Facility Contact Phone No.: 973-492-7735												
Facility Address: Pompton Lakes Works	Job No.: 9267 7720100C WH06 507882												
2000 Cannonball Road	Release No.:												
Pompton Lakes NJ 07442	PO Number: LBIO-66380												
Sampler(s): <u>G. Nemeth / R. Hyatt</u>	Project Name: EISB MONITORING PROGRAM 2013												

Sample Identification	Date Collected	Time Collected	Matrix	Containers			Cl- (300.0)	Fe	S2- (4500 S2 D)	SO4 (300.0)									Condition upon receipt:
				Volume (ml)	Preserv	No.													
GW- 111813-ML04-4	11/18/13	1509	WW	250	HNO3	1		X											intact
GW- 111813-ML04-4	↓	↓	WW	250	NaOH/ ZnAc	1			X										
GW- 111813-ML04-4	↓	↓	WW	40	None	2	X			X									
GW- 111813-ML02-2	11/19/13	1005	WW	250	HNO3	1		X											
GW- 111813-ML02-2	↓	↓	WW	250	NaOH/ ZnAc	1			X										
GW- 111813-ML02-2	↓	↓	WW	40	None	2	X			X									
GW- 111913-ML04-2	11/19/13	1147	WW	250	HNO3	1		X											
GW- 111913-ML04-2	↓	↓	WW	250	NaOH/ ZnAc	1			X										
GW- 111913-ML04-2	↓	↓	WW	40	None	2	X			X									

Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>	Special Instructions: Full Deliverables needed
Bottles Relinquished by: <u>George Nemeth</u>	Bottles Received by: <u>[Signature]</u>
Date: <u>11/21/13</u> Time: <u>1305</u>	Date: <u>11/21/13</u> Time: <u>15:50</u>
Bottles Relinquished by: <u>[Signature]</u>	Bottles Received by: <u>[Signature]</u>
Date: <u>11/21/13</u> Time: <u>19:19</u>	Date: Time:
Bottles Relinquished by: <u>[Signature]</u>	Bottles Received by: <u>[Signature]</u>
Date: Time:	Date: <u>11/21/13</u> Time: <u>19:19</u>



Lancaster Laboratories

Analysis Request / Environmental Services Chain of Custody

1 of 1

For Lancaster Laboratories Use Only

Group No.: 1435828 Sample Nos.: 728 7933-43

Acc't: 07032

SCR No.: 148523

Cooler No.: 11021

27451

Cooler Temperature upon receipt: 0.2-3.2 °C

Container No.: 1-4

Facility Name: Pompton Lakes		Project Manager: George Nemeth		Analyses Required										Comments:										
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735																						
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																						
2000 Cannonball Road		Release No.:																						
Pompton Lakes NJ 07442		PO Number: LBIO-66380																						
Sampler(s): <u>G. Nemeth / R. Hyatt</u>																								
Project Name: EISB MONITORING PROGRAM 2013																								
Sample Identification	Date Collected	Time Collected	Matrix	Containers			Cl- (300.0)	Fe	S2- (4500 S2 D)	SO4 (300.0)											Condition upon receipt:			
				Volume (ml)	Preserv	No.																		
GW- 111913-EN01-Lower	11/19/13	1210	WW	250	HNO3	1		X																Intact
GW- ↓ ↓ ↓	↓	↓	WW	250	NaOH/ ZnAc	1			X															MS
GW- ↓ ↓ ↓	↓	↓	WW	40	None	2	X			X														MS
GW- 111913-EN01-Lower	↓	↓	WW	250	HNO3	1		X																MSD
GW- 111913- ↓ - ↓	↓	↓	WW	250	NaOH/ ZnAc	1			X															MSD
GW- 111913- ↓ - ↓	↓	↓	WW	40	None	2	X			X														MSD
GW-			WW	250	HNO3	1		X																
GW-			WW	250	NaOH/ ZnAc	1			X															
GW-			WW	40	None	2	X			X														
Turnaround Time Requested (please circle):		Standard		RUSH		Number of days: <u>8</u>		Special Instructions: Full Deliverables needed																
Bottles Relinquished by: <u>George Nemeth</u>		Date: <u>11/21/13</u>	Time: <u>1305</u>	Bottles Received by: <u>[Signature]</u>		Date: <u>11/21/13</u>	Time: <u>15:50</u>																	
Bottles Relinquished by: <u>[Signature]</u>		Date: <u>11/21/13</u>	Time: <u>19:19</u>	Bottles Received by: <u>[Signature]</u>		Date:	Time:																	
Bottles Relinquished by: <u>[Signature]</u>		Date:	Time:	Bottles Received by: <u>[Signature]</u>		Date:	Time:																	
Bottles Relinquished by:		Date:	Time:	Bottles Received by: <u>[Signature]</u>		Date: <u>11/21/13</u>	Time: <u>1919</u>																	

1435828

Environmental Sample Administration
Receipt Documentation Log

Client/Project: DuPont Pompton Lakes
 Date of Receipt: 11/21/13
 Time of Receipt: 1919
 Source Code: 01

Shipping Container Sealed: YES NO
 Custody Seal Present * : YES NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	1.9	TB	WI	Y	B	
2	↓	0.9	↓	↓	↓	↓	
3	↓	3.2	↓	↓	↓	↓	
4	↓	0.2	↓	↓	↓	↓	
5			↘				
6							

Number of Trip Blanks received NOT listed on chain of custody: 2

Paperwork Discrepancy/Unpacking Problems:

Coc# 27451: GW-111813-MLO2-2 labeled GW-111913-MLO2-2
1 TOC vial for MLO2-1 labeled GW-111813-MLO2-2
1 TOC vial of MLO2-5 labeled MLO2-4 11/18/13 1250

Unpacker Signature/Emp#: [Signature] 2308 Date/Time: 11/21/13 2104

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

- A** TIC is a possible aldol-condensation product
- B** Analyte was also detected in the blank
- C** Pesticide result confirmed by GC/MS
- D** Compound quantitated on a diluted sample
- E** Concentration exceeds the calibration range of the instrument
- N** Presumptive evidence of a compound (TICs only)
- P** Concentration difference between primary and confirmation columns $>25\%$
- U** Compound was not detected
- X,Y,Z** Defined in case narrative

Inorganic Qualifiers

- B** Value is $<$ CRDL, but \geq IDL
- E** Estimated due to interference
- M** Duplicate injection precision not met
- N** Spike sample not within control limits
- S** Method of standard additions (MSA) used for calculation
- U** Compound was not detected
- W** Post digestion spike out of control limits
- *** Duplicate analysis not within control limits
- +** Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

December 05, 2013

Project: POM - EISB MONITORING PROGRAM

Submission Date: 11/21/2013

Group Number: 1435836

SDG: DPO01

PO Number: LBIO-66380

State of Sample Origin: NJ

Client Sample Description

Lancaster Labs (LL) #

GW-111813-ML02-1 Groundwater	7288078
GW-111813-ML04-6 Groundwater	7288079
GW-111813-ML02-6 Groundwater	7288080
GW-111813-ML04-1 Groundwater	7288081
GW-111813-ML02-5 Groundwater	7288082
GW-111813-ML04-5 Groundwater	7288083
GW-111813-ML02-3 Groundwater	7288084
GW-111813-ML04-4 Groundwater	7288085
GW-111913-ML04-3 Groundwater	7288086
GW-111913-ML02-2 Groundwater	7288087
GW-111813-ML02-4 Groundwater	7288088
GW-111813-ML02-4-D Groundwater	7288089
GW-111913-ML02-7 Groundwater	7288090
GW-111913-ML04-2 Groundwater	7288091
GW-111913-EW01-LOWER Groundwater	7288092
GW-111913-EW01-LOWER MS Groundwater	7288093
GW-111913-EW01-LOWER MSD Groundwater	7288094
GW-111913-ML04-7 Groundwater	7288095
W-111813-FB-ML04-6 Blank Water	7288096
W-111913-FB-ML04-7 Blank Water	7288097
W-111913-TB-ML04-4 Blank Water	7288098
W-111913-TB-ML04-2 Blank Water	7288099
W-111913-TB-ML04-01 Blank Water	7288100

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

1 COPY TO Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: GW-111813-ML02-1 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288078
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/18/2013 11:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

ML021 SDG#: DPO01-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	2.6		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	3.6		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	440		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	150		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	9.7		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	24		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	85		1.0	5.0	10
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	12.4		0.50	1.0	1
	The reported result is the average of the following trials:						
	11.817	mg/l					
	12.043	mg/l					
	11.853	mg/l					
	13.759	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133302AA	11/27/2013 03:30	Kevin A Sposito	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133302AA	11/27/2013 03:53	Kevin A Sposito	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133361AA	12/02/2013 14:39	Angela D Sneeringer	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133302AA	11/27/2013 03:30	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C133302AA	11/27/2013 03:53	Kevin A Sposito	10
01163	GC/MS VOA Water Prep	SW-846 5030B	3	C133361AA	12/02/2013 14:39	Angela D Sneeringer	50
						Joseph E McKenzie	
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13331237304A	11/27/2013 12:34	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111813-ML04-6 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288079
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/18/2013 11:52 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

ML046 SDG#: DPO01-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 J		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.4 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	31		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	21		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	23		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	25		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	1.8		0.1	0.5	1
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	2.0		0.50	1.0	1
	The reported result is the average of the following trials:						
	1.884	mg/l					
	2.319	mg/l					
	1.843	mg/l					
	2.049	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133302AA	11/27/2013 04:16	Kevin A Sposito	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133302AA	11/27/2013 04:38	Kevin A Sposito	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133302AA	11/27/2013 04:16	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C133302AA	11/27/2013 04:38	Kevin A Sposito	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13331237304A	11/27/2013 13:23	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111813-ML04-1 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288081
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/18/2013 12:46 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

ML041 SDG#: DPO01-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.6	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.5 J	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	59	1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	21	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	20	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	0.2 J	0.1	0.5	1
02898	Trichloroethene	79-01-6	18	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	9.8	0.1	0.5	1
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	0.89 J	0.50	1.0	1
The reported result is the average of the following trials:						
	0.759	mg/l				
	1.049	mg/l				
	0.76	mg/l				
	0.972	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133302AA	11/27/2013 05:46	Kevin A Sposito	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133302AA	11/27/2013 06:09	Kevin A Sposito	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133302AA	11/27/2013 05:46	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C133302AA	11/27/2013 06:09	Kevin A Sposito	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13331237304A	11/27/2013 14:47	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111813-ML02-5 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288082
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/18/2013 12:50 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

ML025 SDG#: DPO01-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	1.0		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	1.9		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	240		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	95		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	5.7		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	18		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	30		1.0	5.0	10
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	11.9		0.50	1.0	1
	The reported result is the average of the following trials:						
	11.54	mg/l					
	12.097	mg/l					
	11.688	mg/l					
	12.269	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133302AA	11/27/2013 06:31	Kevin A Sposito	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133302AA	11/27/2013 06:54	Kevin A Sposito	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133361AA	12/02/2013 15:02	Angela D Sneeringer	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133302AA	11/27/2013 06:31	Kevin A Sposito	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C133302AA	11/27/2013 06:54	Kevin A Sposito	10
01163	GC/MS VOA Water Prep	SW-846 5030B	3	C133361AA	12/02/2013 15:02	Angela D Sneeringer	50
						Joseph E McKenzie	
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13331237304A	11/27/2013 15:37	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111813-ML02-3 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288084
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/18/2013 14:40 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

ML023 SDG#: DPO01-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.5 U	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	3.4	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	4.5	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	670	5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	200	5.0	25	50
02898	Tetrachloroethene	127-18-4	0.5 U	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	2.5	5
02898	Trichloroethene	79-01-6	1.6 J	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	140	5.0	25	50
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	6.6	1.0	5.0	1
07105	Ethene	74-85-1	10	1.0	5.0	1
07105	Methane	74-82-8	920	15	25	5
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	38.3	0.50	1.0	1
The reported result is the average of the following trials:						
	37.973	mg/l				
	39.252	mg/l				
	37.55	mg/l				
	38.464	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 14:13	Kerri E Legerlotz	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 14:34	Kerri E Legerlotz	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I133301AA	11/26/2013 14:13	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I133301AA	11/26/2013 14:34	Kerri E Legerlotz	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133310001A	11/27/2013 15:04	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133310001A	11/27/2013 22:44	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13331237304A	11/27/2013 16:45	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111913-ML04-3 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288086
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 10:28 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

ML043 SDG#: DPO01-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.5 U	ug/l	ug/l	5
02898	1,1-Dichloroethane	75-34-3	3.0	ug/l	ug/l	5
02898	1,2-Dichloroethane	107-06-2	0.5 U	ug/l	ug/l	5
02898	1,1-Dichloroethene	75-35-4	3.7	ug/l	ug/l	5
02898	cis-1,2-Dichloroethene	156-59-2	660	ug/l	ug/l	50
02898	trans-1,2-Dichloroethene	156-60-5	200	ug/l	ug/l	50
02898	Tetrachloroethene	127-18-4	1.1 J	ug/l	ug/l	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U	ug/l	ug/l	5
02898	Trichloroethene	79-01-6	13	ug/l	ug/l	5
02898	Vinyl Chloride	75-01-4	130	ug/l	ug/l	50
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	6.4	ug/l	ug/l	1
07105	Ethene	74-85-1	9.2	ug/l	ug/l	1
07105	Methane	74-82-8	900	ug/l	ug/l	5
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	54.8	mg/l	mg/l	1
The reported result is the average of the following trials:						
	54.427	mg/l				
	55.125	mg/l				
	52.922	mg/l				
	56.585	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 15:38	Kerri E Legerlotz	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 15:59	Kerri E Legerlotz	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I133301AA	11/26/2013 15:38	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I133301AA	11/26/2013 15:59	Kerri E Legerlotz	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133310001A	11/27/2013 15:41	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133310001A	11/27/2013 23:39	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13331237304A	11/27/2013 18:11	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111913-ML02-2 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288087
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 10:05 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

ML022 SDG#: DPO01-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B 25mL	ug/l	ug/l	ug/l	
		purge				
02898	Carbon Tetrachloride	56-23-5	0.5 U	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	3.0	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	4.2	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	61.0	5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	22.0	5.0	25	50
02898	Tetrachloroethene	127-18-4	3.3	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	2.5	5
02898	Trichloroethene	79-01-6	18	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	12.0	0.5	2.5	5
GC Miscellaneous						
		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	6.0	1.0	5.0	1
07105	Ethene	74-85-1	8.4	1.0	5.0	1
07105	Methane	74-82-8	84.0	15	25	5
Wet Chemistry						
		SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	33.4	0.50	1.0	1
	The reported result is the average of the following trials:					
		33.362	mg/l			
		33.624	mg/l			
		32.876	mg/l			
		33.776	mg/l			

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 16:20	Kerri E Legerlotz	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 16:41	Kerri E Legerlotz	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I133301AA	11/26/2013 16:20	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I133301AA	11/26/2013 16:41	Kerri E Legerlotz	50
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133310001A	11/27/2013 16:38	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133310001A	11/27/2013 23:58	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13331237304A	11/27/2013 19:02	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111813-ML02-4 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288088
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/18/2013 13:45 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

ML024 SDG#: DPO01-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	3.5 J	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	3.1 J	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	510	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	240	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	2.0 J	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U	1.0	5.0	10
02898	Trichloroethene	79-01-6	6.5	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	190	1.0	5.0	10
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	8.0	1.0	5.0	1
07105	Ethene	74-85-1	77	1.0	5.0	1
07105	Methane	74-82-8	1,200	30	50	10
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	7.7	0.50	1.0	1
The reported result is the average of the following trials:						
	7.062	mg/l				
	8.191	mg/l				
	7.076	mg/l				
	8.291	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 17:02	Kerri E Legerlotz	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 17:23	Kerri E Legerlotz	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I133301AA	11/26/2013 17:02	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I133301AA	11/26/2013 17:23	Kerri E Legerlotz	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133310001A	11/27/2013 16:57	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133310001A	11/28/2013 00:16	Elizabeth J Marin	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13336237302A	12/02/2013 18:37	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111813-ML02-4-D Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288089
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/18/2013 13:45 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

ML24D SDG#: DPO01-12FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	3.3 J	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	2.8 J	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	600	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	220	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	1.9 J	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U	1.0	5.0	10
02898	Trichloroethene	79-01-6	6.1	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	180	1.0	5.0	10
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	7.7	1.0	5.0	1
07105	Ethene	74-85-1	76	1.0	5.0	1
07105	Methane	74-82-8	1,100	15	25	5
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	7.9	0.50	1.0	1
The reported result is the average of the following trials:						
	7.223	mg/l				
	8.689	mg/l				
	7.247	mg/l				
	8.34	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 17:45	Kerri E Legerlotz	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 18:06	Kerri E Legerlotz	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I133301AA	11/26/2013 17:45	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I133301AA	11/26/2013 18:06	Kerri E Legerlotz	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133310001A	11/27/2013 17:15	Nicholas R Rossi	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133310001A	11/28/2013 00:35	Nicholas R Rossi	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13336237302A	12/02/2013 19:10	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111913-ML02-7 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288090
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 11:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

ML027 SDG#: DPO01-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	1 J		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	0.5 U		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	57		0.5	2.5	5
02898	trans-1,2-Dichloroethene	156-60-5	2.5 J		0.5	2.5	5
02898	Tetrachloroethene	127-18-4	0.5 U		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U		0.5	2.5	5
02898	Trichloroethene	79-01-6	0.5 U		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	110		0.5	2.5	5
Reporting limits were raised due to sample foaming.							
GC	Miscellaneous	RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	4.3 J		1.0	5.0	1
07105	Ethene	74-85-1	18		1.0	5.0	1
07105	Methane	74-82-8	2,500		60	100	20
Wet Chemistry	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	31.1		0.50	1.0	1
The reported result is the average of the following trials:							
	29.105	mg/l					
	32.633	mg/l					
	29.644	mg/l					
	33.005	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	C133361AA	12/02/2013 15:46	Angela D Sneeringer	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133361AA	12/02/2013 15:46	Angela D Sneeringer	5
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133340001A	11/30/2013 17:18	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133340001A	12/02/2013 19:40	Elizabeth J Marin	20
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13336237302A	12/02/2013 20:01	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111913-ML04-2 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288091
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 11:47 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

ML042 SDG#: DPO01-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
		SW-846 8260B 25mL	ug/l	ug/l	ug/l	
		purge				
02898	Carbon Tetrachloride	56-23-5	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	3.4 J	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	4.6 J	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	730	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	280	10	50	100
02898	Tetrachloroethene	127-18-4	1.0 U	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U	1.0	5.0	10
02898	Trichloroethene	79-01-6	16	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	130	1.0	5.0	10
GC Miscellaneous						
		RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	5.6	1.0	5.0	1
07105	Ethene	74-85-1	7.5	1.0	5.0	1
07105	Methane	74-82-8	780	15	25	5
Wet Chemistry						
		SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	26.8	0.50	1.0	1
	The reported result is the average of the following trials:					
		26.453	mg/l			
		28.022	mg/l			
		25.143	mg/l			
		27.759	mg/l			

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 19:10	Kerri E Legerlotz	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 19:32	Kerri E Legerlotz	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I133301AA	11/26/2013 19:10	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I133301AA	11/26/2013 19:32	Kerri E Legerlotz	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133340001A	11/30/2013 17:36	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133340001A	12/02/2013 19:58	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13336237302A	12/02/2013 20:34	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111913-EW01-LOWER Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288092
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 12:10 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

EWLOW SDG#: DPO01-15BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles			SW-846 8260B 25mL	ug/l	ug/l	ug/l	
			purge				
02898	Carbon Tetrachloride	56-23-5	1.0 U		1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	2.5 J		1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U		1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	3.8 J		1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	580		10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	200		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	6.2		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U		1.0	5.0	10
02898	Trichloroethene	79-01-6	39		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	110		1.0	5.0	10
GC Miscellaneous			RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	6.1		1.0	5.0	1
07105	Ethene	74-85-1	7.7		1.0	5.0	1
07105	Methane	74-82-8	1,000		15	25	5
Wet Chemistry			SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	8.3		0.50	1.0	1
			The reported result is the average of the following trials:				
			7.833		mg/l		
			9.142		mg/l		
			7.719		mg/l		
			8.635		mg/l		

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 12:06	Kerri E Legerlotz	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 13:10	Kerri E Legerlotz	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I133301AA	11/26/2013 12:06	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I133301AA	11/26/2013 13:10	Kerri E Legerlotz	100
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133340001A	11/30/2013 17:55	Elizabeth J Marin	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133340001A	12/02/2013 20:16	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13336237302A	12/02/2013 21:08	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111913-EW01-LOWER MS Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288093
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 12:10 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

EWLOW SDG#: DPO01-15MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	54	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	52	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	52	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	59	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	640	E 1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	280	E 1.0	5.0	10
02898	Tetrachloroethene	127-18-4	65	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	52	1.0	5.0	10
02898	Trichloroethene	79-01-6	100	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	170	1.0	5.0	10
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	61	1.0	5.0	1
07105	Ethene	74-85-1	71	1.0	5.0	1
07105	Methane	74-82-8	970	E 3.0	5.0	1
Wet Chemistry						
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	18.5	0.50	1.0	1
	The reported result is the average of the following trials:					
	18.548	mg/l				
	18.778	mg/l				
	18.177	mg/l				
	18.384	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 12:27	Kerri E Legerlotz	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I133301AA	11/26/2013 12:27	Kerri E Legerlotz	10
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133340001A	11/30/2013 18:13	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13336237302A	12/02/2013 21:59	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111913-EW01-LOWER MSD Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288094
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 12:10 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

EWLOW SDG#: DPO01-15MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	53	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	51	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	49	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	59	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	630	E 1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	270	E 1.0	5.0	10
02898	Tetrachloroethene	127-18-4	64	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	51	1.0	5.0	10
02898	Trichloroethene	79-01-6	99	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	170	1.0	5.0	10
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	61	1.0	5.0	1
07105	Ethene	74-85-1	70	1.0	5.0	1
07105	Methane	74-82-8	950	E 3.0	5.0	1
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	18.2	0.50	1.0	1
The reported result is the average of the following trials:						
	17.994	mg/l				
	18.406	mg/l				
	18.157	mg/l				
	18.414	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 12:48	Kerri E Legerlotz	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I133301AA	11/26/2013 12:48	Kerri E Legerlotz	10
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133340001A	11/30/2013 18:31	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13336237302A	12/02/2013 22:33	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-111913-ML04-7 Groundwater
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288095
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 13:40 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

ML047 SDG#: DPO01-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13336237302A	12/02/2013 23:23	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: W-111813-FB-ML04-6 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288096
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/18/2013 15:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

FB046 SDG#: DPO01-17FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.1	U	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1	U	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1	U	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1	U	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1	U	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1	U	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1	U	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1	U	0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1	U	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1	U	0.1	0.5	1
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	1.0	U	1.0	5.0	1
07105	Ethene	74-85-1	1.0	U	1.0	5.0	1
07105	Methane	74-82-8	3.0	U	3.0	5.0	1
Wet Chemistry SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	0.50	U	0.50	1.0	1
The reported result is the average of the following trials:							
			0.453	mg/l			
			0.225	mg/l			
			0.2	mg/l			
			0.176	mg/l			

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 10:20	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I133301AA	11/26/2013 10:20	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133310001A	11/27/2013 17:33	Nicholas R Rossi	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13336237302A	12/02/2013 23:57	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: W-111913-FB-ML04-7 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288097
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 14:26 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

FB047 SDG#: DPO01-18FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.1	U	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1	U	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1	U	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1	U	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1	U	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1	U	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1	U	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1	U	0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1	U	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1	U	0.1	0.5	1
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	1.0	U	1.0	5.0	1
07105	Ethene	74-85-1	1.0	U	1.0	5.0	1
07105	Methane	74-82-8	3.0	U	3.0	5.0	1
Wet Chemistry SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	0.50	U	0.50	1.0	1
The reported result is the average of the following trials:							
	0.196	mg/l					
	0.097	mg/l					
	0.272	mg/l					
	0.108	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 10:41	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I133301AA	11/26/2013 10:41	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133340001A	11/30/2013 19:08	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13336237302A	12/03/2013 00:31	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: W-111913-TB-ML04-4 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288098
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 10:05 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

TB044 SDG#: DPO01-19TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 11:02	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I133301AA	11/26/2013 11:02	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133340001A	11/30/2013 19:26	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: W-111913-TB-ML04-2 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288099
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 10:05 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

TB042 SDG#: DPO01-20TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 11:23	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I133301AA	11/26/2013 11:23	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133340001A	11/30/2013 20:03	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: W-111913-TB-ML04-01 Blank Water
EISB MONITORING PROGRAM 2013

LL Sample # WW 7288100
LL Group # 1435836
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 11/19/2013 10:05 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 11/21/2013 19:19
Reported: 12/05/2013 13:41

TB041 SDG#: DPO01-21TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS	Volatiles	SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC	Miscellaneous	RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133301AA	11/26/2013 11:45	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I133301AA	11/26/2013 11:45	Kerri E Legerlotz	1
07105	Volatile Headspace Hydrocarbon	RSKSOP-175 modified	1	133340001A	11/30/2013 20:21	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 12/05/13 at 01:41 PM

Group Number: 1435836

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>	
Batch number: C133302AA Sample number(s): 7288078-7288082										
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	112	110	80-129	2	30	
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	92	92	80-120	0	30	
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	110	109	80-127	1	30	
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	95	94	80-123	1	30	
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	99	99	80-120	0	30	
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	100	99	80-120	1	30	
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	106	105	80-120	1	30	
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	104	103	80-120	0	30	
Trichloroethene	0.1 U	0.1	0.5	ug/l	104	105	80-120	0	30	
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	93	93	65-127	0	30	
Batch number: C133361AA Sample number(s): 7288078,7288082-7288083,7288090,7288095										
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	116	113	80-129	3	30	
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	95	93	80-120	1	30	
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	111	108	80-127	3	30	
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	100	97	80-123	2	30	
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	102	99	80-120	3	30	
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	103	101	80-120	2	30	
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	105	103	80-120	2	30	
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	108	106	80-120	2	30	
Trichloroethene	0.1 U	0.1	0.5	ug/l	106	104	80-120	2	30	
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	92	91	65-127	1	30	
Batch number: I133301AA Sample number(s): 7288083-7288089,7288091-7288094,7288096-7288100										
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	98		80-129			
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	92		80-120			
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	94		80-127			
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	103		80-123			
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	99		80-120			
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	103		80-120			
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	101		80-120			
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	95		80-120			
Trichloroethene	0.1 U	0.1	0.5	ug/l	102		80-120			
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	95		65-127			
Batch number: 133310001A Sample number(s): 7288084-7288089,7288096										
Ethane	1.0 U	1.0	5.0	ug/l	106		80-120			
Ethene	1.0 U	1.0	5.0	ug/l	105		80-120			
Methane	3.0 U	3.0	5.0	ug/l	103		80-120			
Batch number: 133340001A Sample number(s): 7288090-7288095,7288097-7288100										
Ethane	1.0 U	1.0	5.0	ug/l			80-120			
Ethene	1.0 U	1.0	5.0	ug/l			80-120			

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 12/05/13 at 01:41 PM

Group Number: 1435836

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Methane	3.0 U	3.0	5.0	ug/l	104		80-120		
Batch number: 13331237304A	Sample number(s): 7288078-7288087								
Total Organic Carbon (Quad)	0.50 U	0.50	1.0	mg/l	100		91-113		
Batch number: 13336237302A	Sample number(s): 7288088-7288097								
Total Organic Carbon (Quad)	0.50 U	0.50	1.0	mg/l	97		91-113		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: I133301AA	Sample number(s): 7288083-7288089, 7288091-7288094, 7288096-7288100 UNSPK: 7288092								
Carbon Tetrachloride	108	106	81-148	2	30				
1,1-Dichloroethane	98	98	88-136	1	30				
1,2-Dichloroethane	104	98	82-135	6	30				
1,1-Dichloroethene	110	111	83-150	1	30				
cis-1,2-Dichloroethene	211 (2)	186 (2)	82-129	2	30				
trans-1,2-Dichloroethene	147 (2)	142 (2)	88-127	1	30				
Tetrachloroethene	117	115	75-129	2	30				
1,1,1-Trichloroethane	104	102	85-140	2	30				
Trichloroethene	126	121	85-131	2	30				
Vinyl Chloride	127	122	62-135	1	30				
Batch number: 133310001A	Sample number(s): 7288084-7288089, 7288096 UNSPK: P287606								
Ethane	88	90	32-129	2	20				
Ethene	101	102	35-162	1	20				
Methane	-1047 (2)	-1175 (2)	35-157	5	20				
Batch number: 133340001A	Sample number(s): 7288090-7288095, 7288097-7288100 UNSPK: 7288092								
Ethane	91	91	32-129	0	20				
Ethene	102	102	35-162	0	20				
Methane	-83 (2)	-119 (2)	35-157	2	20				
Batch number: 13331237304A	Sample number(s): 7288078-7288087 UNSPK: 7288078								
Total Organic Carbon (Quad)	97	104	63-142	3	20				
Batch number: 13336237302A	Sample number(s): 7288088-7288097 UNSPK: 7288092								
Total Organic Carbon (Quad)	101	99	63-142	1	20				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 12/05/13 at 01:41 PM

Group Number: 1435836

Surrogate Quality Control

Analysis Name: GC/MS Volatiles

Batch number: C133302AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7288078	104	102	97	95
7288079	107	103	97	94
7288080	107	104	97	94
7288081	106	104	97	95
7288082	105	101	98	95
Blank	106	105	97	95
LCS	104	103	99	100
LCSD	103	103	99	101

Limits: 77-114 74-113 77-110 78-110

Analysis Name: GC/MS Volatiles

Batch number: C133361AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7288090	104	102	96	96
7288095	104	104	98	97
Blank	107	108	96	97
LCS	105	106	97	101
LCSD	103	105	97	100

Limits: 77-114 74-113 77-110 78-110

Analysis Name: GC/MS Volatiles

Batch number: I133301AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7288083	99	108	94	96
7288084	100	107	95	96
7288085	99	104	95	95
7288086	100	108	94	97
7288087	99	104	94	95
7288088	100	104	94	95
7288089	100	106	94	96
7288091	101	106	93	95
7288092	99	106	94	96
7288093	101	106	96	99
7288094	99	103	97	97
7288096	99	104	95	96
7288097	99	106	95	96
7288098	100	105	94	97
7288099	100	105	94	96
7288100	100	106	94	96
Blank	100	103	95	96
LCS	100	104	96	98
MS	101	106	96	99
MSD	99	103	97	97

Limits: 77-114 74-113 77-110 78-110

Analysis Name: Volatile Headspace Hydrocarbon

Batch number: 133310001A

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 12/05/13 at 01:41 PM

Group Number: 1435836

Surrogate Quality Control

Propene

7288084	70
7288085	73
7288086	71
7288087	76
7288088	73
7288089	72
7288096	78
Blank	92
LCS	94
MS	68
MSD	69

Limits: 42-131

Analysis Name: Volatile Headspace Hydrocarbon
Batch number: 133340001A
Propene

7288090	72
7288091	74
7288092	77
7288093	74
7288094	74
7288095	73
7288097	85
7288098	86
7288099	81
7288100	80
Blank	98
LCS	99
MS	74
MSD	74

Limits: 42-131

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



Lancaster Laboratories

Analysis Request / Environmental Services Chain of Custody

1 of 1

For Lancaster Laboratories Use Only

Group No.: 1435836 Sample Nos.: 7288078-100

Acc't: 07032 SF: 178283 SCR No.: 148460

Cooler No.: 5757

27439

Cooler Temperature upon receipt: 0.2-3.2 °C

Container No.: 1-4

Facility Name: Pompton Lakes		Project Manager: George Nemeth		Analyses Required										Comments:								
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735		TOC Quad (SW-846 9060A) Methane, Ethane, Ethene (RSK-175) POM Site List of Volatiles (8260)																		
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																				
2000 Cannonball Road		Release No.:																				
Pompton Lakes NJ 07442		PO Number: LBIO-66380																				
Sampler(s): <u>G. Nemeth / R. Hyatt</u>		Project Name: EISB MONITORING PROGRAM 2013																				
Sample Identification			Date Collected	Time Collected	Matrix	Volume (ml)	Preserv	No.	TOC Quad	Methane, Ethane, Ethene	POM Site List of Volatiles											Condition upon receipt:
GW- 11813-ML04-5			11/18/13	1359	WW	40	H3PO4	5	X													intact
GW- 11813-ML04-5			↓	↓	WW	40	HCl	3			X											
GW- 11813-ML02-3			11/18/13	1440	WW	40	HCl	2		X												
GW- 11813-ML02-3			↓	↓	WW	40	H3PO4	5	X													
GW- 11813-ML02-3			↓	↓	WW	40	HCl	3			X											
GW- 11813-ML04-4			11/18/13	1509	WW	40	HCl	2		X												
GW- 11813-ML04-4			↓	↓	WW	40	H3PO4	5	X													
GW- 11813-ML04-4			↓	↓	WW	40	HCl	3			X											
GW- 11913-ML04-3			11/19/13	1028	WW	40	HCl	2		X												
GW- 11913-ML04-3			↓	↓	WW	40	HCl	3			X											
GW- 11913-ML04-3			↓	↓	WW	40	H3PO4	5	X													
Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>				Special Instructions: Full Deliverables needed																		
Bottles Relinquished by: <u>George Nemeth</u>		Date: <u>11/21/13</u>		Time: <u>1305</u>		Bottles Received by: <u>[Signature]</u>		Date: <u>11/21/13</u>		Time: <u>15:50</u>												
Bottles Relinquished by: <u>[Signature]</u>		Date: <u>11/21/13</u>		Time: <u>19:19</u>		Bottles Received by: <u>[Signature]</u>		Date:		Time:												
Bottles Relinquished by: <u>[Signature]</u>		Date:		Time:		Bottles Received by:		Date:		Time:												
Bottles Relinquished by: <u>[Signature]</u>		Date:		Time:		Bottles Received by: <u>[Signature]</u>		Date: <u>11/21/13</u>		Time: <u>19:19</u>												



Lancaster Laboratories

Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only

Group No.: 1435836 Sample Nos.: 7288078-160

Acc't: 07032 SF: 178283 SCR No.: 148460

Cooler No.: 5757

27439

Cooler Temperature upon receipt: 0.2-3.2 °C

Container No.: 1-4

Facility Name: Pompton Lakes	Project Manager: George Nemeth	Analyses Required										Comments:	
Facility Contact: George Nemeth	Facility Contact Phone No.: 973-492-7735	TOC Quad (SW-846 9060A)	Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)									
Facility Address: Pompton Lakes Works	Job No.: 9267 7720100C WH06 507882												
2000 Cannonball Road	Release No.:												
Pompton Lakes NJ 07442	PO Number: LBIO-66380												
Sampler(s): <u>G. Nemeth / R. Hyatt</u>													
Project Name: EISB MONITORING PROGRAM 2013													

Sample Identification	Date Collected	Time Collected	Matrix	Containers			TOC Quad	Methane, Ethane, Ethene	POM Site List of Volatiles											Condition upon receipt:
				Volume (ml)	Preserv	No.														
GW- 111913- MLO2-7	11/19/13	1100	WW	40	H3PO4	5	X													Intact
GW- 111913- MLO2-7	↓	↓	WW	40	HCl	3			X											
GW- 111913- MLO2-7	↓	↓	WW	40	HCl	2		X												
GW- 111913- MLO4-2	11/19/13	1147	WW	40	H3PO4	5	X													
GW- 111913- MLO4-2	↓	↓	WW	40	HCl	3			X											
GW- 111913- MLO4-2	↓	↓	WW	40	HCl	2		X												
GW- 111913- EW01-Lower	11/19/13	1210	WW	40	H3PO4	5	X													
GW- 111913- EW01-Lower	↓	↓	WW	40	HCl	3			X											
GW- 111913- EW01-Lower	↓	↓	WW	40	HCl	2		X												

Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>			Special Instructions: <u>Full Deliverables needed</u>		
Bottles Relinquished by: <u>George Nemeth</u>	Date: <u>11/21/13</u>	Time: <u>1305</u>	Bottles Received by: <u>[Signature]</u>	Date: <u>11/21/13</u>	Time: <u>15:50</u>
Bottles Relinquished by: <u>[Signature]</u>	Date: <u>11/21/13</u>	Time: <u>19:19</u>	Bottles Received by: <u>[Signature]</u>	Date: <u>11/21/13</u>	Time: <u>19:19</u>
Bottles Relinquished by: <u>[Signature]</u>	Date: <u>11/21/13</u>	Time: <u>19:19</u>	Bottles Received by: <u>[Signature]</u>	Date: <u>11/21/13</u>	Time: <u>19:19</u>



Lancaster Laboratories

Analysis Request / Environmental Services Chain of Custody

1 of 1

For Lancaster Laboratories Use Only

Group No.: 1435836 Sample Nos.: 7288078-100

Acc't: 07032 SF: 178283 SCR No.: 148460

Cooler No.: 18101

27439

Cooler Temperature upon receipt: 0.2-3.2 °C

Container No.: T-4

Facility Name: Pompton Lakes	Project Manager: George Nemeth	Analyses Required										Comments:
Facility Contact: George Nemeth	Facility Contact Phone No.: 973-492-7735	TOC Quad (SW-846 9060A)	Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)								
Facility Address: Pompton Lakes Works	Job No.: 9267 7720100C WH06 507882											
2000 Cannonball Road	Release No.:											
Pompton Lakes NJ 07442	PO Number: LBIO-66380											
Sampler(s): <u>G. Nemeth / R. Hyatt</u>												
Project Name: EISB MONITORING PROGRAM 2013												

Sample Identification	Date Collected	Time Collected	Matrix	Containers			TOC Quad	Methane, Ethane, Ethene	POM Site List of Volatiles									Condition upon receipt:
				Volume (ml)	Preserv	No.												
GW- 111913-EW01-Lower	11/19/13	1210	WW	40	H3PO4	5	X											intact MS
GW- 111913-EW01-Lower	↓	↓	WW	40	HCl	3			X									MS
GW- 111913-EW01-Lower	↓	↓	WW	40	HCl	2		X										MS
GW- 111913-EW01-Lower	↓	↓	WW	40	H3PO4	5	X											MSD
GW- 111913-EW01-Lower	↓	↓	WW	40	HCl	3			X									MSD
GW- 111913-EW01-Lower	↓	↓	WW	40	HCl	2		X										MSD
GW- 111913-M204-7	11/19/13	1340	WW	40	H3PO4	5	X											
GW- ↓ ↓ ↓	↓	↓	WW	40	HCl	3			X									
GW- ↓ ↓ ↓	↓	↓	WW	40	HCl	2		X										

Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>	Special Instructions: Full Deliverables needed
Bottles Relinquished by: <u>George Nemeth</u> Date: <u>11/21/13</u> Time: <u>1305</u>	Bottles Received by: <u>[Signature]</u> Date: <u>11/21/13</u> Time: <u>15:50</u>
Bottles Relinquished by: <u>[Signature]</u> Date: <u>11/21/13</u> Time: <u>1919</u>	Bottles Received by: <u>[Signature]</u> Date: <u></u> Time: <u></u>
Bottles Relinquished by: <u>[Signature]</u> Date: <u></u> Time: <u></u>	Bottles Received by: <u>[Signature]</u> Date: <u></u> Time: <u></u>
Bottles Relinquished by: <u></u> Date: <u></u> Time: <u></u>	Bottles Received by: <u>[Signature]</u> Date: <u>11/21/13</u> Time: <u>1919</u>



Lancaster Laboratories

Analysis Request / Environmental Services Chain of Custody

1 of 1

For Lancaster Laboratories Use Only

Group No.: 1435836 Sample Nos.: 7288078-100

Acc't: 07032 SF: 178283 SCR No.: 148460

Cooler No.: 1082

27442

Cooler Temperature upon receipt: 0.2-3.2 °C

Container No.: 1-4

Facility Name: Pompton Lakes		Project Manager: George Nemeth			Analyses Required										Comments:										
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735			TOC Quad (SW-846 9060A)	Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)																		
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																							
2000 Cannonball Road		Release No.:																							
Pompton Lakes NJ 07442		PO Number: LBIO-66380																							
Sampler(s): <u>G. Nemeth / R. Hyatt</u>																									
Project Name: EISB MONITORING PROGRAM 2013																									
Sample Identification	Date Collected	Time Collected	Matrix	Containers			TOC	Methane	Ethane	Ethene	POM	Site List	Volatiles									Condition upon receipt:			
				Volume (ml)	Preserv	No.																	intact		
W-111813-FB-ML04-6	11/18/13	1500	WW	40	H3PO4	5	X																ML04-6		
W-111813 - FB-ML04-6	↓	↓	WW	40	HCl	3						X													
W-111813 - FB-ML04-6	↓	↓	WW	40	HCl	2		X																	
W-111913 - FB-ML04-7	11/19/13	1426	WW	40	HCl	3						X											FB		
W-111913 - FB-ML04-7	↓	↓	WW	40	HCl	2		X															FB		
W-111913 - FB-ML04-7	↓	↓	WW	40	H3PO4	5	X																		

Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>				Special Instructions: <u>Full Deliverables needed</u>			
Bottles Relinquished by: <u>George Nemeth</u>	Date: <u>11/21/13</u>	Time: <u>1305</u>	Bottles Received by: <u>[Signature]</u>		Date: <u>11/21/13</u>	Time: <u>15:50</u>	
Bottles Relinquished by: <u>[Signature]</u>	Date: <u>11/21/13</u>	Time: <u>19:19</u>	Bottles Received by: <u>[Signature]</u>		Date:	Time:	
Bottles Relinquished by: <u>[Signature]</u>	Date:	Time:	Bottles Received by: <u>[Signature]</u>		Date:	Time:	
Bottles Relinquished by: <u>[Signature]</u>	Date:	Time:	Bottles Received by: <u>[Signature]</u>		Date: <u>11/21/13</u>	Time: <u>1919</u>	



Lancaster Laboratories

Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only

Group No.: 1435836 Sample Nos.: 72 88078-100

Acc't: 07032 SF: 178283 SCR No.: 148460

Cooler No.: 5357

27441

Cooler Temperature upon receipt: 0.2-3.2 °C

Container No.: 1-4

Facility Name: Pompton Lakes		Project Manager: George Nemeth		Analyses Required										Comments:											
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735		TOC Quad (SW-846 9060A)	Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)																			
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																							
2000 Cannonball Road		Release No.:																							
Pompton Lakes NJ 07442		PO Number: LBIO-66380																							
Sampler(s): <u>G. Nemeth / R. Hyatt</u>																									
Project Name: EISB MONITORING PROGRAM 2013																									
Sample Identification	Date Collected	Time Collected	Matrix	Containers			TOC	Methane	Ethane	Ethene	POM	Site List	Volatiles									Condition upon receipt:			
				Volume (ml)	Preserv	No.																	Intact		
W- <u>NB</u>			WW	40	H3PO4	5	X																		
W- <u>NB</u>			WW	40	HCl	3					X												<u>GM</u>		
W- 11913-TB - NB MLO4-4	11/19/13	-	WW	40	HCl	2					X														
W- 11913-TB - TB MLO4-4	↓	-	WW	40	HCl	2 ³		X			X														
W- 11913-TB - NB MLO4-2	11/19/13	-	WW	40	HCl	2					X														
W- 11913-TB - MLO4-2	↓	-	WW	40	HCL	2		X																	
W- 11913-TB - MLO4-1	11/19/13	-	WW	40	HCL	2					X														
W- 11913-TB - MLO4-1	↓	-	WW	40	HCL	2		X																	

Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>				Special Instructions: <u>Full Deliverables needed</u>			
Bottles Relinquished by: <u>George Nemeth</u>	Date: <u>11/21/13</u>	Time: <u>1305</u>	Bottles Received by: <u>[Signature]</u>	Date: <u>11/21/13</u>	Time: <u>15:50</u>		
Bottles Relinquished by: <u>[Signature]</u>	Date: <u>11/21/13</u>	Time: <u>19:19</u>	Bottles Received by: <u>[Signature]</u>	Date:	Time:		
Bottles Relinquished by: <u>[Signature]</u>	Date:	Time:	Bottles Received by: <u>[Signature]</u>	Date:	Time:		
Bottles Relinquished by: <u>[Signature]</u>	Date:	Time:	Bottles Received by: <u>[Signature]</u>	Date: <u>11/21/13</u>	Time: <u>1919</u>		

1435836

Environmental Sample Administration
Receipt Documentation Log

Client/Project: DuPont Pompton Lakes

Shipping Container Sealed: YES NO

Date of Receipt: 11/21/13

Custody Seal Present * : YES NO

Time of Receipt: 1919

* Custody seal was intact unless otherwise noted in the discrepancy section

Source Code: 01

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	1.9	TB	WI	Y	B	
2	↓	0.9	↓	↓	↓	↓	
3	↓	3.2	↓	↓	↓	↓	
4	↓	0.2	↓	↓	↓	↓	
5			↘				
6							

Number of Trip Blanks received NOT listed on chain of custody: 2

Paperwork Discrepancy/Unpacking Problems:

Col# 27451: GW-111813-MLO2-2 labeled GW-111913-MLO2-2

1 TOC vial for MLO2-1 labeled GW-111813-MLO2-2

1 TOC vial of MLO2-5 labeled MLO2-4 11/18/13 1250

Unpacker Signature/Emp#: [Signature] 2308 Date/Time: 11/21/13 2104

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

- A** TIC is a possible aldol-condensation product
- B** Analyte was also detected in the blank
- C** Pesticide result confirmed by GC/MS
- D** Compound quantitated on a diluted sample
- E** Concentration exceeds the calibration range of the instrument
- N** Presumptive evidence of a compound (TICs only)
- P** Concentration difference between primary and confirmation columns $>25\%$
- U** Compound was not detected
- X,Y,Z** Defined in case narrative

Inorganic Qualifiers

- B** Value is $<$ CRDL, but \geq IDL
- E** Estimated due to interference
- M** Duplicate injection precision not met
- N** Spike sample not within control limits
- S** Method of standard additions (MSA) used for calculation
- U** Compound was not detected
- W** Post digestion spike out of control limits
- *** Duplicate analysis not within control limits
- +** Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

January 06, 2014

Project: POM - EISB MONITORING PROGRAM

Submission Date: 12/20/2013

Group Number: 1442603

SDG: POM01

PO Number: LBIO-66380

State of Sample Origin: NJ

Client Sample Description

Lancaster Labs (LL) #

GW-121813-ML02-1 Groundwater	7321182
GW-121813-ML04-1 Groundwater	7321183
GW-121813-ML02-6 Groundwater	7321184
GW-121813-ML04-6 Groundwater	7321185
GW-121813-ML02-5 Groundwater	7321186
GW-121813-ML02-4 Groundwater	7321187
GW-121813-ML02-3 Groundwater	7321188
GW-121813-ML02-2 Groundwater	7321189
W-121813-ML02-4-FB Blank Water	7321190
GW-121813-ML04-3 Groundwater	7321191
GW-121813-ML04-5 Groundwater	7321192
GW-121813-ML04-4 Groundwater	7321193
GW-121813-ML04-4-D Groundwater	7321194
W-121813-ML02-4-TB Blank Water	7321195
GW-121913-EW01-LOWER Groundwater	7321196
GW-121913-ML04-2 Groundwater	7321197
GW-121913-ML04-2 MS Groundwater	7321198
GW-121913-ML04-2 MSD Groundwater	7321199
GW-121913-ML04-7 Groundwater	7321200
GW-121913-ML02-7 Groundwater	7321201
W-121913-ML04-2-FB Blank Water	7321202
W-121913-ML04-2-TB Blank Water	7321203

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

1 COPY TO Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: GW-121813-ML02-1 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321182
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 09:35 by MN

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL01 SDG#: POM01-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	3.4	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	5.4	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	590	5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	210	5.0	25	50
02898	Tetrachloroethene	127-18-4	1.4	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U	0.1	0.5	1
02898	Trichloroethene	79-01-6	15	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	130	5.0	25	50

Wet Chemistry SW-846 9060A		mg/l	mg/l	mg/l
00354	Total Organic Carbon (Quad)	n.a.	11.9	0.50
The reported result is the average of the following trials:				
		11.871 mg/l		
		11.99 mg/l		
		11.565 mg/l		
		12.292 mg/l		

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133601AA	12/26/2013 17:04	Kerri E Legerlotz	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133651AA	12/31/2013 14:07	Jason M Long	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133601AA	12/26/2013 17:04	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I133651AA	12/31/2013 14:07	Jason M Long	50
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13364049503A	12/30/2013 01:37	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-121813-ML04-1 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321183
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 09:46 by MN

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL02 SDG#: POM01-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.6		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.7		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	92		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	31		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	11		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.2 J		0.1	0.5	1
02898	Trichloroethene	79-01-6	11		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	10		0.1	0.5	1

Wet Chemistry SW-846 9060A		mg/l	mg/l	mg/l
00354	Total Organic Carbon (Quad)	n.a.	1.4	0.50
The reported result is the average of the following trials:				
	1.385	mg/l		
	1.376	mg/l		
	1.377	mg/l		
	1.342	mg/l		

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133601AA	12/26/2013 17:49	Kerri E Legerlotz	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133601AA	12/26/2013 18:12	Kerri E Legerlotz	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133601AA	12/26/2013 17:49	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C133601AA	12/26/2013 18:12	Kerri E Legerlotz	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13364049503A	12/30/2013 02:28	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-121813-ML02-6 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321184
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 10:35 by MN

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL03 SDG#: POM01-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	1.9	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	2.8	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	280	5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	83	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	21	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U	0.1	0.5	1
02898	Trichloroethene	79-01-6	28	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	66	1.0	5.0	10

Wet Chemistry SW-846 9060A		mg/l	mg/l	mg/l
00354	Total Organic Carbon (Quad)	n.a.	2.5	0.50
The reported result is the average of the following trials:				
	2.415	mg/l		
	2.838	mg/l		
	2.212	mg/l		
	2.57	mg/l		

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133601AA	12/26/2013 18:34	Kerri E Legerlotz	1
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133601AA	12/26/2013 18:57	Kerri E Legerlotz	10
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 15:07	Jason M Long	50
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133601AA	12/26/2013 18:34	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C133601AA	12/26/2013 18:57	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	3	C133641AA	12/30/2013 15:07	Jason M Long	50
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13364049503A	12/30/2013 03:01	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-121813-ML04-6 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321185
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 11:42 by MN

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL04 SDG#: POM01-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.4 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	28		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	21		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	22		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	24		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	1.1		0.1	0.5	1
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	2.0		0.50	1.0	1
	The reported result is the average of the following trials:						
	2.052	mg/l					
	2.135	mg/l					
	1.927	mg/l					
	2.061	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133601AA	12/26/2013 19:20	Kerri E Legerlotz	1
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133601AA	12/26/2013 19:42	Kerri E Legerlotz	10
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133601AA	12/26/2013 19:20	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C133601AA	12/26/2013 19:42	Kerri E Legerlotz	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13364049503A	12/30/2013 04:09	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-121813-ML02-5 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321186
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 11:35 by MN

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL05 SDG#: POM01-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	3.1	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	4.6	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	530	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	160	10	50	100
02898	Tetrachloroethene	127-18-4	0.9	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U	0.1	0.5	1
02898	Trichloroethene	79-01-6	2.2	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	130	10	50	100

Wet Chemistry SW-846 9060A		mg/l	mg/l	mg/l
00354	Total Organic Carbon (Quad)	n.a.	25.0	0.50
The reported result is the average of the following trials:				
	24.451	mg/l		
	25.524	mg/l		
	24.518	mg/l		
	25.476	mg/l		

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133601AA	12/26/2013 20:04	Kerri E Legerlotz	1
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 15:30	Jason M Long	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133601AA	12/26/2013 20:04	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C133641AA	12/30/2013 15:30	Jason M Long	100
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13364049503A	12/30/2013 04:44	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-121813-ML02-4 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321187
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 12:51 by MN

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL06 SDG#: POM01-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.2 U	0.2	1.0	2
02898	1,1-Dichloroethane	75-34-3	2.8	0.2	1.0	2
02898	1,2-Dichloroethane	107-06-2	0.2 U	0.2	1.0	2
02898	1,1-Dichloroethene	75-35-4	0.9 J	0.2	1.0	2
02898	cis-1,2-Dichloroethene	156-59-2	150	1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	180	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	0.6 J	0.2	1.0	2
02898	1,1,1-Trichloroethane	71-55-6	0.2 U	0.2	1.0	2
02898	Trichloroethene	79-01-6	1.2	0.2	1.0	2
02898	Vinyl Chloride	75-01-4	110	1.0	5.0	10
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	5.4	1.0	5.0	1
07105	Ethene	74-85-1	170	1.0	5.0	1
07105	Methane	74-82-8	990	15	25	5
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	11.7	0.50	1.0	1
The reported result is the average of the following trials:						
	11.366	mg/l				
	11.676	mg/l				
	11.885	mg/l				
	11.809	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133601AA	12/26/2013 20:49	Kerri E Legerlotz	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 14:22	Jason M Long	2
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133601AA	12/26/2013 20:49	Kerri E Legerlotz	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C133641AA	12/30/2013 14:22	Jason M Long	2
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 00:58	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 15:36	Elizabeth J Marin	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-121813-ML02-4 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321187
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 12:51 by MN

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

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PPL06 SDG#: POM01-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13364049503A	12/30/2013 05:18	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-121813-ML02-3 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321188
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 13:42 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

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PPL07 SDG#: POM01-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	2.7		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	3.8		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	590		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	96		0.5	2.5	5
02898	Tetrachloroethene	127-18-4	0.5 U		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U		0.5	2.5	5
02898	Trichloroethene	79-01-6	1.2 J		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	240		5.0	25	50
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	4.3 J		1.0	5.0	1
07105	Ethene	74-85-1	13		1.0	5.0	1
07105	Methane	74-82-8	1,200		15	25	5
Wet Chemistry SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	49.1		0.50	1.0	1
	The reported result is the average of the following trials:						
	48.736	mg/l					
	49.971	mg/l					
	48.371	mg/l					
	49.288	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 15:52	Jason M Long	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 16:15	Jason M Long	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133641AA	12/30/2013 15:52	Jason M Long	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C133641AA	12/30/2013 16:15	Jason M Long	50
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 01:16	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 15:54	Elizabeth J Marin	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-121813-ML02-3 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321188
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 13:42 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center
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Newark DE 19713

PPL07 SDG#: POM01-07

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13364049503A	12/30/2013 06:09	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-121813-ML02-2 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321189
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 15:02 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL08 SDG#: POM01-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.2 U	0.2	1.0	2
02898	1,1-Dichloroethane	75-34-3	2.8	0.2	1.0	2
02898	1,2-Dichloroethane	107-06-2	0.2 U	0.2	1.0	2
02898	1,1-Dichloroethene	75-35-4	4.1	0.2	1.0	2
02898	cis-1,2-Dichloroethene	156-59-2	580	5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	190	5.0	25	50
02898	Tetrachloroethene	127-18-4	0.6 J	0.2	1.0	2
02898	1,1,1-Trichloroethane	71-55-6	0.2 U	0.2	1.0	2
02898	Trichloroethene	79-01-6	5.2	0.2	1.0	2
02898	Vinyl Chloride	75-01-4	140	5.0	25	50
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	5.0	1.0	5.0	1
07105	Ethene	74-85-1	7.8	1.0	5.0	1
07105	Methane	74-82-8	800	15	25	5
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	34.8	0.50	1.0	1
The reported result is the average of the following trials:						
	33.476	mg/l				
	35.612	mg/l				
	34.499	mg/l				
	35.48	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 16:37	Jason M Long	2
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133651AA	12/31/2013 14:28	Jason M Long	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133641AA	12/30/2013 16:37	Jason M Long	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I133651AA	12/31/2013 14:28	Jason M Long	50
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 01:34	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 16:12	Elizabeth J Marin	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-121813-ML02-2 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321189
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 15:02 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

PPL08 SDG#: POM01-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13364049503A	12/30/2013 06:44	James S Mathiot	1

*=This limit was used in the evaluation of the final result

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Sample Description: W-121813-ML02-4-FB Blank Water
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321190
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 14:46 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL09 SDG#: POM01-09FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260B 25mL	ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1	U	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1	U	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1	U	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1	U	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1	U	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1	U	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1	U	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1	U	0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1	U	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1	U	0.1	0.5	1
GC Miscellaneous		RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0	U	1.0	5.0	1
07105	Ethene	74-85-1	1.0	U	1.0	5.0	1
07105	Methane	74-82-8	3.0	U	3.0	5.0	1
Wet Chemistry		SW-846 9060A	mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	0.50	U	0.50	1.0	1
	The reported result is the average of the following trials:						
		0.64	mg/l				
		0.369	mg/l				
		0.4	mg/l				
		0.517	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013	12:07	Jason M Long	1
		purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133641AA	12/30/2013	12:07	Jason M Long	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014	01:51	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13364049503A	12/30/2013	07:35	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-121813-ML04-3 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321191
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 16:03 by GN

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL10 SDG#: POM01-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	3.3		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	4.0		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	710		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	200		5.0	25	50
02898	Tetrachloroethene	127-18-4	0.7 J		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U		0.5	2.5	5
02898	Trichloroethene	79-01-6	10		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	190		5.0	25	50
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	6.5		1.0	5.0	1
07105	Ethene	74-85-1	11		1.0	5.0	1
07105	Methane	74-82-8	820		15	25	5
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	13.6		0.50	1.0	1
	The reported result is the average of the following trials:						
		13.453	mg/l				
		13.73	mg/l				
		12.829	mg/l				
		14.351	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 17:22	Jason M Long	5
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 17:44	Jason M Long	50
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133641AA	12/30/2013 17:22	Jason M Long	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C133641AA	12/30/2013 17:44	Jason M Long	50
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 02:09	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 16:29	Elizabeth J Marin	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-121813-ML04-3 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321191
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 16:03 by GN

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL10 SDG#: POM01-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13364049503A	12/30/2013 08:10	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-121813-ML04-5 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321192
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 12:39 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL11 SDG#: POM01-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.9	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	2.4	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	310	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	140	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	4.8	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U	0.1	0.5	1
02898	Trichloroethene	79-01-6	19	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	29	1.0	5.0	10

Wet Chemistry SW-846 9060A		mg/l	mg/l	mg/l
00354	Total Organic Carbon (Quad)	n.a.	7.4	0.50
The reported result is the average of the following trials:				
	7.401	mg/l		
	7.452	mg/l		
	6.952	mg/l		
	7.693	mg/l		

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 18:07	Jason M Long	1
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 18:29	Jason M Long	10
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	I133651AA	12/31/2013 14:49	Jason M Long	100
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133641AA	12/30/2013 18:07	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C133641AA	12/30/2013 18:29	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	3	I133651AA	12/31/2013 14:49	Jason M Long	100
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13365049506A	12/31/2013 02:12	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-121813-ML04-4 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321193
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 14:10 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL12 SDG#: POM01-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	0.5 U	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	3.4	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	4.3	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	710	5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	210	5.0	25	50
02898	Tetrachloroethene	127-18-4	9.2	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U	0.5	2.5	5
02898	Trichloroethene	79-01-6	33	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	170	5.0	25	50
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	6.7	1.0	5.0	1
07105	Ethene	74-85-1	10	1.0	5.0	1
07105	Methane	74-82-8	960	15	25	5
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	7.1	0.50	1.0	1
The reported result is the average of the following trials:						
	6.714	mg/l				
	7.437	mg/l				
	6.295	mg/l				
	7.832	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 18:52	Jason M Long	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 19:14	Jason M Long	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133641AA	12/30/2013 18:52	Jason M Long	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C133641AA	12/30/2013 19:14	Jason M Long	50
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 02:27	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 16:46	Elizabeth J Marin	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-121813-ML04-4 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321193
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 14:10 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

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4051 Ogletown Road, Suite 300
Newark DE 19713

PPL12 SDG#: POM01-12

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13365049506A	12/31/2013 02:46	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-121813-ML04-4-D Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321194
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 14:10 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

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Newark DE 19713

PPL13 SDG#: POM01-13FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles			SW-846 8260B 25mL	ug/l	ug/l	ug/l	
			purge				
02898	Carbon Tetrachloride	56-23-5	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	3.4		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	4.2		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	750		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	230		5.0	25	50
02898	Tetrachloroethene	127-18-4	8.9		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U		0.5	2.5	5
02898	Trichloroethene	79-01-6	33		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	180		5.0	25	50
GC Miscellaneous			RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	6.6		1.0	5.0	1
07105	Ethene	74-85-1	10		1.0	5.0	1
07105	Methane	74-82-8	1,000		15	25	5
Wet Chemistry			SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	7.1		0.50	1.0	1
			The reported result is the average of the following trials:				
			6.787		mg/l		
			7.673		mg/l		
			6.477		mg/l		
			7.465		mg/l		

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 19:36	Jason M Long	5
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 19:58	Jason M Long	50
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133641AA	12/30/2013 19:36	Jason M Long	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C133641AA	12/30/2013 19:58	Jason M Long	50
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 02:45	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 17:04	Elizabeth J Marin	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-121813-ML04-4-D Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321194
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 14:10 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

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Newark DE 19713

PPL13 SDG#: POM01-13FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13365049506A	12/31/2013 03:36	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: W-121813-ML02-4-TB Blank Water
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321195
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/18/2013 09:35 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL14 SDG#: POM01-14TB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U	ug/l	ug/l	1
02898	1,1-Dichloroethane	75-34-3	0.1 U	ug/l	ug/l	1
02898	1,2-Dichloroethane	107-06-2	0.1 U	ug/l	ug/l	1
02898	1,1-Dichloroethene	75-35-4	0.1 U	ug/l	ug/l	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U	ug/l	ug/l	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U	ug/l	ug/l	1
02898	Tetrachloroethene	127-18-4	0.1 U	ug/l	ug/l	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U	ug/l	ug/l	1
02898	Trichloroethene	79-01-6	0.1 U	ug/l	ug/l	1
02898	Vinyl Chloride	75-01-4	0.1 U	ug/l	ug/l	1
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	1.0 U	ug/l	ug/l	1
07105	Ethene	74-85-1	1.0 U	ug/l	ug/l	1
07105	Methane	74-82-8	3.0 U	ug/l	ug/l	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL purge	1	C133641AA	12/30/2013 12:30	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133641AA	12/30/2013 12:30	Jason M Long	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 03:03	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-121913-EW01-LOWER Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321196
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/19/2013 09:59 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL15 SDG#: POM01-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	2.9		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	4.2		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	630		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	230		5.0	25	50
02898	Tetrachloroethene	127-18-4	4.8		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U		0.5	2.5	5
02898	Trichloroethene	79-01-6	45		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	140		5.0	25	50
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	5.7		1.0	5.0	1
07105	Ethene	74-85-1	7.9		1.0	5.0	1
07105	Methane	74-82-8	1,000		15	25	5
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	7.9		0.50	1.0	1
	The reported result is the average of the following trials:						
			7.666		mg/l		
			8.439		mg/l		
			7.281		mg/l		
			8.213		mg/l		

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 20:21	Jason M Long	5
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 20:43	Jason M Long	50
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133641AA	12/30/2013 20:21	Jason M Long	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C133641AA	12/30/2013 20:43	Jason M Long	50
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 03:38	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 17:22	Elizabeth J Marin	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-121913-EW01-LOWER Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321196
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/19/2013 09:59 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

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Newark DE 19713

PPL15 SDG#: POM01-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13365049506A	12/31/2013 04:10	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-121913-ML04-2 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321197
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/19/2013 09:33 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL16 SDG#: POM01-16BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	1.0 U		1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	3.4 J		1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U		1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	4.8 J		1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	750		10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	280		10	50	100
02898	Tetrachloroethene	127-18-4	1.0 U		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U		1.0	5.0	10
02898	Trichloroethene	79-01-6	9.1		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	150		1.0	5.0	10
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	5.0 J		1.0	5.0	1
07105	Ethene	74-85-1	7.2		1.0	5.0	1
07105	Methane	74-82-8	800		15	25	5
Wet Chemistry SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	32.5		0.50	1.0	1
The reported result is the average of the following trials:							
		32.138	mg/l				
		32.343	mg/l				
		32.795	mg/l				
		32.89	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 12:52	Jason M Long	10
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 14:00	Jason M Long	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133641AA	12/30/2013 12:52	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C133641AA	12/30/2013 14:00	Jason M Long	100
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 03:56	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 17:40	Elizabeth J Marin	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-121913-ML04-2 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321197
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/19/2013 09:33 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

PPL16 SDG#: POM01-16BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13365049506A	12/31/2013 04:44	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-121913-ML04-2 MS Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321198
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/19/2013 09:33 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL16 SDG#: POM01-16MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	65	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	53	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	58	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	60	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	820 E	1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	330 E	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	56	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	59	1.0	5.0	10
02898	Trichloroethene	79-01-6	66	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	190	1.0	5.0	10
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	65	1.0	5.0	1
07105	Ethene	74-85-1	82	1.0	5.0	1
07105	Methane	74-82-8	740 E	3.0	5.0	1
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	42.7	0.50	1.0	1
The reported result is the average of the following trials:						
	41.862	mg/l				
	43.833	mg/l				
	42.08	mg/l				
	43.006	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 13:15	Jason M Long	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133641AA	12/30/2013 13:15	Jason M Long	10
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 04:14	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13365049506A	12/31/2013 05:35	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-121913-ML04-2 MSD Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321199
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/19/2013 09:33 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL16 SDG#: POM01-16MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	63	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	52	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	58	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	59	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	810	E 1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	320	E 1.0	5.0	10
02898	Tetrachloroethene	127-18-4	56	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	58	1.0	5.0	10
02898	Trichloroethene	79-01-6	65	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	190	1.0	5.0	10
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	66	1.0	5.0	1
07105	Ethene	74-85-1	85	1.0	5.0	1
07105	Methane	74-82-8	820	E 3.0	5.0	1
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	42.9	0.50	1.0	1
The reported result is the average of the following trials:						
	42.609	mg/l				
	43.37	mg/l				
	41.977	mg/l				
	43.628	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AA	12/30/2013 13:37	Jason M Long	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133641AA	12/30/2013 13:37	Jason M Long	10
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 04:32	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13365049506A	12/31/2013 06:09	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-121913-ML04-7 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321200
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/19/2013 11:04 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL17 SDG#: POM01-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.2 U		0.2	1.0	2
02898	1,1-Dichloroethane	75-34-3	1.5		0.2	1.0	2
02898	1,2-Dichloroethane	107-06-2	0.2 U		0.2	1.0	2
02898	1,1-Dichloroethene	75-35-4	0.7 J		0.2	1.0	2
02898	cis-1,2-Dichloroethene	156-59-2	91		2.0	10	20
02898	trans-1,2-Dichloroethene	156-60-5	6.5		0.2	1.0	2
02898	Tetrachloroethene	127-18-4	0.2 U		0.2	1.0	2
02898	1,1,1-Trichloroethane	71-55-6	0.2 U		0.2	1.0	2
02898	Trichloroethene	79-01-6	0.5 J		0.2	1.0	2
02898	Vinyl Chloride	75-01-4	180		2.0	10	20
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	4.9 J		1.0	5.0	1
07105	Ethene	74-85-1	15		1.0	5.0	1
07105	Methane	74-82-8	1,700		15	25	5
Wet Chemistry SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	17.4		0.50	1.0	1
The reported result is the average of the following trials:							
		17.172	mg/l				
		17.377	mg/l				
		16.671	mg/l				
		18.466	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AB	12/31/2013 17:02	Jason M Long	2
		purge					
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AB	12/31/2013 17:24	Jason M Long	20
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133641AB	12/31/2013 17:02	Jason M Long	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C133641AB	12/31/2013 17:24	Jason M Long	20
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 04:49	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 17:58	Elizabeth J Marin	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-121913-ML04-7 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321200
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/19/2013 11:04 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

PPL17 SDG#: POM01-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13365049506A	12/31/2013 07:01	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-121913-ML02-7 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321201
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/19/2013 11:36 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL18 SDG#: POM01-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.2 U		0.2	1.0	2
02898	1,1-Dichloroethane	75-34-3	0.8 J		0.2	1.0	2
02898	1,2-Dichloroethane	107-06-2	0.2 U		0.2	1.0	2
02898	1,1-Dichloroethene	75-35-4	0.3 J		0.2	1.0	2
02898	cis-1,2-Dichloroethene	156-59-2	41		2.0	10	20
02898	trans-1,2-Dichloroethene	156-60-5	2.3		0.2	1.0	2
02898	Tetrachloroethene	127-18-4	0.2 U		0.2	1.0	2
02898	1,1,1-Trichloroethane	71-55-6	0.2 U		0.2	1.0	2
02898	Trichloroethene	79-01-6	0.2 U		0.2	1.0	2
02898	Vinyl Chloride	75-01-4	110		2.0	10	20
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	4.0 J		1.0	5.0	1
07105	Ethene	74-85-1	22		1.0	5.0	1
07105	Methane	74-82-8	2,200		60	100	20
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	31.4		0.50	1.0	1
	The reported result is the average of the following trials:						
	28.519	mg/l					
	34.446	mg/l					
	30.503	mg/l					
	32.266	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AB	12/31/2013 17:46	Jason M Long	2
	purge						
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AB	12/31/2013 18:08	Jason M Long	20
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133641AB	12/31/2013 17:46	Jason M Long	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	C133641AB	12/31/2013 18:08	Jason M Long	20
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 05:07	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 18:16	Elizabeth J Marin	20

*=This limit was used in the evaluation of the final result

Sample Description: GW-121913-ML02-7 Groundwater
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321201
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/19/2013 11:36 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

PPL18 SDG#: POM01-18

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13365049506A	12/31/2013 07:35	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: W-121913-ML04-2-FB Blank Water
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321202
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/19/2013 09:19 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL19 SDG#: POM01-19FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260B 25mL	ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1	U	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1	U	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1	U	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1	U	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1	U	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1	U	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1	U	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1	U	0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1	U	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1	U	0.1	0.5	1
GC Miscellaneous		RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0	U	1.0	5.0	1
07105	Ethene	74-85-1	1.0	U	1.0	5.0	1
07105	Methane	74-82-8	3.0	U	3.0	5.0	1
Wet Chemistry		SW-846 9060A	mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	0.50	U	0.50	1.0	1
	The reported result is the average of the following trials:						
		0.437	mg/l				
		0.165	mg/l				
		0.41	mg/l				
		0.221	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AB	12/31/2013 09:58	Jason M Long	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133641AB	12/31/2013 09:58	Jason M Long	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014 05:25	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	13365049506A	12/31/2013 08:26	James S Mathiot	1

*=This limit was used in the evaluation of the final result

Sample Description: W-121913-ML04-2-TB Blank Water
POM List
EISB MONITORING PROGRAM 2013

LL Sample # WW 7321203
LL Group # 1442603
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 12/19/2013 09:33 by CA

CRG-E.I.DuPont de Nemours & Co

Submitted: 12/20/2013 18:20

URS Corporation

Reported: 01/06/2014 14:19

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

PPL20 SDG#: POM01-20TB*

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles		SW-846 8260B 25mL	ug/l		ug/l	ug/l	
		purge					
02898	Carbon Tetrachloride	56-23-5	0.1	U	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1	U	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1	U	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1	U	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1	U	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1	U	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1	U	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1	U	0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1	U	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1	U	0.1	0.5	1
GC Miscellaneous		RSKSOP-175 modified	ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0	U	1.0	5.0	1
07105	Ethene	74-85-1	1.0	U	1.0	5.0	1
07105	Methane	74-82-8	3.0	U	3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
02898	GC/MS Volatiles	SW-846 8260B 25mL	1	C133641AB	12/31/2013	10:20	Jason M Long	1
		purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	C133641AB	12/31/2013	10:20	Jason M Long	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	133650021A	01/01/2014	05:48	Elizabeth J Marin	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 01/06/14 at 02:19 PM

Group Number: 1442603

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>	
Batch number: C133601AA Sample number(s): 7321182-7321187										
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	129	124	80-129	4	30	
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	100	96	80-120	4	30	
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	120	117	80-127	3	30	
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	106	102	80-123	4	30	
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	108	104	80-120	3	30	
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	110	107	80-120	3	30	
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	115	111	80-120	3	30	
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	119	115	80-120	3	30	
Trichloroethene	0.1 U	0.1	0.5	ug/l	113	110	80-120	3	30	
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	103	101	65-127	2	30	
Batch number: C133641AA Sample number(s): 7321184,7321186-7321199										
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	122		80-129			
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	94		80-120			
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	111		80-127			
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	100		80-123			
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	102		80-120			
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	106		80-120			
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	109		80-120			
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	112		80-120			
Trichloroethene	0.1 U	0.1	0.5	ug/l	109		80-120			
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	84		65-127			
Batch number: C133641AB Sample number(s): 7321200-7321203										
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	123		80-129			
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	94		80-120			
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	114		80-127			
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	99		80-123			
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	104		80-120			
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	106		80-120			
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	110		80-120			
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	114		80-120			
Trichloroethene	0.1 U	0.1	0.5	ug/l	109		80-120			
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	101		65-127			
Batch number: I133651AA Sample number(s): 7321182,7321189,7321192										
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	97	97	80-120	0	30	
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	100	99	80-120	1	30	
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	101	98	65-127	2	30	
Batch number: 133650021A Sample number(s): 7321187-7321191,7321193-7321203										
Ethane	1.0 U	1.0	5.0	ug/l	100		80-120			
Ethene	1.0 U	1.0	5.0	ug/l	101		80-120			

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 01/06/14 at 02:19 PM

Group Number: 1442603

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Methane	3.0 U	3.0	5.0	ug/l	104		80-120		
Batch number: 13364049503A	Sample number(s): 7321182-7321191								
Total Organic Carbon (Quad)	0.50 U	0.50	1.0	mg/l	99		91-113		
Batch number: 13365049506A	Sample number(s): 7321192-7321194,7321196-7321202								
Total Organic Carbon (Quad)	0.50 U	0.50	1.0	mg/l	98		91-113		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: C133641AA	Sample number(s): 7321184,7321186-7321199 UNSPK: 7321197								
Carbon Tetrachloride	129	126	81-148	3	30				
1,1-Dichloroethane	99	97	88-136	2	30				
1,2-Dichloroethane	115	116	82-135	0	30				
1,1-Dichloroethene	110	108	83-150	1	30				
cis-1,2-Dichloroethene	121 (2)	98 (2)	82-129	1	30				
trans-1,2-Dichloroethene	119 (2)	113 (2)	88-127	1	30				
Tetrachloroethene	112	112	75-129	0	30				
1,1,1-Trichloroethane	118	117	85-140	2	30				
Trichloroethene	113	113	85-131	0	30				
Vinyl Chloride	80	84	62-135	1	30				
Batch number: C133641AB	Sample number(s): 7321200-7321203 UNSPK: 7321197								
Carbon Tetrachloride	129	126	81-148	3	30				
1,1-Dichloroethane	99	97	88-136	2	30				
1,2-Dichloroethane	115	116	82-135	0	30				
1,1-Dichloroethene	110	108	83-150	1	30				
cis-1,2-Dichloroethene	121 (2)	98 (2)	82-129	1	30				
trans-1,2-Dichloroethene	119 (2)	113 (2)	88-127	1	30				
Tetrachloroethene	112	112	75-129	0	30				
1,1,1-Trichloroethane	118	117	85-140	2	30				
Trichloroethene	113	113	85-131	0	30				
Vinyl Chloride	80	84	62-135	1	30				
Batch number: 133650021A	Sample number(s): 7321187-7321191,7321193-7321203 UNSPK: 7321197								
Ethane	99	101	32-129	2	20				
Ethene	122	126	35-162	3	20				
Methane	-108 (2)	30 (2)	35-157	11	20				
Batch number: 13364049503A	Sample number(s): 7321182-7321191 UNSPK: 7321184								
Total Organic Carbon (Quad)	97	97	63-142	0	20				
Batch number: 13365049506A	Sample number(s): 7321192-7321194,7321196-7321202 UNSPK: 7321197								
Total Organic Carbon (Quad)	102	104	63-142	0	20				

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 01/06/14 at 02:19 PM

Group Number: 1442603

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: GC/MS Volatiles

Batch number: C133601AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7321182	107	106	96	95
7321183	107	108	95	96
7321184	106	105	95	94
7321185	109	107	95	93
7321186	108	105	96	95
Blank	111	110	95	96
LCS	108	107	98	102
LCSD	107	105	98	100

Limits: 77-114 74-113 77-110 78-110

Analysis Name: GC/MS Volatiles

Batch number: C133641AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7321187	106	107	96	95
7321188	106	103	96	95
7321189	107	105	95	94
7321190	109	107	96	95
7321191	109	103	96	95
7321192	108	106	97	94
7321193	107	102	96	94
7321194	108	105	96	93
7321195	109	107	96	94
7321196	108	105	96	93
7321197	108	106	96	94
7321198	106	107	98	101
7321199	107	104	98	101
Blank	109	108	95	96
LCS	106	105	98	100
MS	106	107	98	101
MSD	107	104	98	101

Limits: 77-114 74-113 77-110 78-110

Analysis Name: GC/MS Volatiles

Batch number: C133641AB

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7321200	105	102	97	95
7321201	105	103	96	94
7321202	111	106	96	95
7321203	111	108	96	95
Blank	112	107	96	96
LCS	107	105	98	100
MS	106	107	98	101
MSD	107	104	98	101

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 01/06/14 at 02:19 PM

Group Number: 1442603

Surrogate Quality Control

Limits: 77-114 74-113 77-110 78-110

Analysis Name: Methane, Ethane & Ethene
Batch number: 133650021A
Propene

7321187	87
7321188	89
7321189	91
7321190	102
7321191	86
7321193	85
7321194	87
7321195	96
7321196	87
7321197	88
7321198	87
7321199	88
7321200	84
7321201	79
7321202	93
7321203	96
Blank	97
LCS	101
MS	87
MSD	88

Limits: 42-131

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



Lancaster Laboratories

Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only

Group No.: 1442603 Sample Nos.: 7321182-203
Acc't: 07032 SF: 178283 SCR No.: 149514 Cooler No.: C05757 27572
Cooler Temperature upon receipt: 1.5-2.4°C Container No.: T-3 12/20/13

Facility Name: Pompton Lakes	Project Manager: George Nemeth	Analyses Required										Comments:											
Facility Contact: George Nemeth	Facility Contact Phone No.: 973-492-7735	TOC Quad (SW-846 9060A)	Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)																			
Facility Address: Pompton Lakes Works	Job No.: 9267 7720100C WH06 507882																						
2000 Cannonball Road	Release No.:																						
Pompton Lakes NJ 07442	PO Number: LBIO-66380																						
Sampler(s): <u>G. Nemeth / M. Ng</u>																							
Project Name: EISB MONITORING PROGRAM 2013																							

Sample Identification	Date Collected	Time Collected	Matrix	Containers			TOC Quad	Methane, Ethane, Ethene	POM Site List of Volatiles												Condition upon receipt:
				Volume (ml)	Preserv	No.															
GW-121813-ML04-3	12/18/13	1603	WW	40	H3PO4	5	X														MS
GW-121813-ML04-3	12/18/13	1603	WW	40	HCl	3		X													MS
GW-121813-ML04-3	12/18/13	1603	WW	40	HCl	2		X													MS
GW-			WW	40	H3PO4	5	X														MSD
GW-			WW	40	HCl	3		X													MSD
GW-			WW	40	HCl	2															MSD
GW- -D			WW	40	H3PO4	5	X														
GW- -D			WW	40	HCl	3		X													
GW- -D			WW	40	HCl	2															

Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>	Special Instructions: Full Deliverables needed
Bottles Relinquished by: <u>[Signature]</u> Date: <u>12/20/13</u> Time: <u>1820</u>	Bottles Received by: <u>[Signature]</u> Date: <u>12-20-13</u> Time: <u>1405</u>
Bottles Relinquished by: <u>[Signature]</u> Date: <u>12/20/13</u> Time: <u>1820</u>	Bottles Received by: <u>[Signature]</u> Date: <u></u> Time: <u></u>
Bottles Relinquished by: <u>[Signature]</u> Date: <u></u> Time: <u></u>	Bottles Received by: <u>[Signature]</u> Date: <u></u> Time: <u></u>
Bottles Relinquished by: <u>[Signature]</u> Date: <u></u> Time: <u></u>	Bottles Received by: <u>[Signature]</u> Date: <u>12/20/13</u> Time: <u>1820</u>

Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only

Group No.: 1442603 Sample Nos.: 7321182-203
 Acct: 07032 SF: 178283 SCR No.: 149514 Cooler No.: C05757 27571
 Cooler Temperature upon receipt: 15-24 °C Container No.: 1-3

Facility Name: Pompton Lakes	Project Manager: George Nemeth	Analyses Required										Comments:												
Facility Contact: George Nemeth	Facility Contact Phone No.: 973-492-7735	TOC Quad (SW-846 9060A)	Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)																				
Facility Address: Pompton Lakes Works	Job No.: 9267 7720100C WH06 507882																							
2000 Cannonball Road	Release No.:																							
Pompton Lakes NJ 07442	PO Number: LBIO-66380																							
Sampler(s): <u>C. Atkins, G. Nemeth, M. Ng, M. Misiaszek</u>	Project Name: EISB MONITORING PROGRAM 2013																							

Sample Identification	Date Collected	Time Collected	Matrix	Containers			TOC Quad (SW-846 9060A)	Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)												Condition upon receipt:
				Volume (ml)	Preserv	No.															
GW-121813-MLO4-5	12/18/13	1239	WW	40	H3PO4	5	X														intact
GW-121813-MLO4-5	12/18/13	1239	WW	40	HCl	3			X												
GW-121813-MLO4-4		1410	WW	40	HCl	2		X													
GW-121813-MLO4-4		1410	WW	40	H3PO4	5	X														
GW-121813-MLO4-4		1410	WW	40	HCl	3			X												
GW-121813-MLO4-4-D		1410	WW	40	HCl	2		X													
GW-121813-MLO4-4-D		1410	WW	40	H3PO4	5	X														
GW-121813-MLO4-4-D		1410	WW	40	HCl	3			X												
W-121813-MLO2-4-TB	12/18/13	—	WW	40	HCl	2			X												
W-121813-MLO2-4-TB	12/18/13	—	WW	40	HCl	2		X													

Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>	Special Instructions: Full Deliverables needed			
Bottles Relinquished by: <u>[Signature]</u>	Date: <u>12/20/13</u>	Time:	Bottles Received by: <u>[Signature]</u>	Date: <u>12/20/13</u> Time: <u>1405</u>
Bottles Relinquished by: <u>[Signature]</u>	Date: <u>12-20-13</u>	Time: <u>1820</u>	Bottles Received by:	Date: Time:
Bottles Relinquished by:	Date:	Time:	Bottles Received by:	Date: Time:
Bottles Relinquished by:	Date:	Time:	Bottles Received by: <u>[Signature]</u>	Date: <u>12/20/13</u> Time: <u>1820</u>

Environmental Sample Administration
Receipt Documentation Log

1442603

Client/Project: Dupont Pompton Lakes

Shipping Container Sealed: YES NO

Date of Receipt: 12/20/13

Custody Seal Present * : YES NO

Time of Receipt: 1820

* Custody seal was intact unless otherwise noted in the discrepancy section

Source Code: 01

Package: Chilled Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	DT121	1.5	TB	WI	Y	B	
2	↓	2.4	↓	↓	↓	↓	
3	↓	1.5	↓	↓	↓	↓	
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody: 0

Paperwork Discrepancy/Unpacking Problems:

Unpacker Signature/Emp#: [Signature] 2308 Date/Time: 12/20/13 1910

Issued by Dept. 6042 Management

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

Inorganic Qualifiers

A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL REPORT

Job Number: 200-16916-1

SDG Number: 200-16916

Job Description: POM/VI SAMPLING

For:

URS Corporation

C/O Dupont

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark, DE 19713

Attention: Ms. Candia Carle



Approved for release.
Don C Dawicki
Customer Service Manager
6/24/2013 5:16 PM

Don C Dawicki, Customer Service Manager
30 Community Drive, South Burlington, VT, 05403
(802)660-1990
don.dawicki@testamericainc.com
06/24/2013

cc: Ms. Norma Eichlin

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

TestAmerica Laboratories, Inc.

TestAmerica Burlington 30 Community Drive, Suite 11, South Burlington, VT 05403

Tel (802) 660-1990 Fax (802) 660-1919 www.testamericainc.com



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**ANALYTICAL DATA PACKAGE FOR THE
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NEW JERSEY 08625**

Agency/Division:	NA	Bureau/Office:	NA
Project No:	NA	Contract No.:	NA
Laboratory Name:	TestAmerica Laboratories	Laboratory Location:	South Burlington, Vermont
SDG or Batch No.:	200-16916	NJDEP Certification No.:	VT972
Date of First Sample Receipt:	06/07/2013	Date of Last Sample Receipt:	06/07/2013

Agency Sample Number	Laboratory Sample Number	Sample Location	Date and Time of Collection
AA060613-SGP-01	200-16916-2	AA060613-SGP-01	06/06/2013 16:11
SG060613-SGP-01	200-16916-1	SG060613-SGP-01	06/06/2013 16:11

I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and in the computer-readable data submitted on disk or electronically has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Laboratory Manager (Typed):	Kirstin Daigle	Date:
Laboratory Manager (Signature):		
Quality Assurance Manager (Typed):	Sara Goff	Date:
Quality Assurance Manager (Signature):		

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Tracking
Number

8750 8335 4932

0200

Form
ID No

FedEx Retrieval Copy

1 From

Date 06/16/13 Sender's FedEx
Account Number

007118988

Sender's Name
George Nemeth

Phone
973 492-7703

Company
E.I. DuPont

Address
2000 Cannonball Rd

City
Pompton Lakes State
NJ ZIP
07442

2 Your Internal Billing Reference

Company
Sample Receiving Phone
802 660-1990

Company
Test America

Address
30 Community Dr STE 11 01
City
South Burlington State
VT ZIP
05403

Address
30 Community Dr STE 11 01
City
South Burlington State
VT ZIP
05403

City
South Burlington State
VT ZIP
05403



8750 8335 4932

fedex.com 1800.GoFedEx 1800.463.3339

4a Express Package Service

01 Express Package Service

05 FedEx Priority Overnight

06 FedEx Standard Overnight

20 FedEx Express Saver

70 FedEx 1Day Freight

80 FedEx 2Day

83 FedEx 3Day Freight

02 FedEx Envelope*

03 FedEx Box

04 FedEx Tube

05 Other

03 SATURDAY DELIVERY

03 Special Handling and Delivery Signature Options

10 No Signature Required

34 Direct Signature

06 Indirect Signature

09 Signature Required

00 Signature Required

128 Signature Required

146 Signature Required

174 Signature Required

192 Signature Required

210 Signature Required

228 Signature Required

246 Signature Required

264 Signature Required

282 Signature Required

300 Signature Required

318 Signature Required

336 Signature Required

354 Signature Required

372 Signature Required

390 Signature Required

408 Signature Required

426 Signature Required

444 Signature Required

462 Signature Required

480 Signature Required

498 Signature Required

516 Signature Required

534 Signature Required

552 Signature Required

570 Signature Required

588 Signature Required

606 Signature Required

624 Signature Required

642 Signature Required

660 Signature Required

678 Signature Required

696 Signature Required

714 Signature Required

732 Signature Required

750 Signature Required

768 Signature Required

786 Signature Required

804 Signature Required

822 Signature Required

840 Signature Required

858 Signature Required

876 Signature Required

894 Signature Required

912 Signature Required

930 Signature Required

948 Signature Required

966 Signature Required

984 Signature Required

1002 Signature Required

1020 Signature Required

1038 Signature Required

1056 Signature Required

1074 Signature Required

1092 Signature Required

1110 Signature Required

1128 Signature Required

1146 Signature Required

1164 Signature Required

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1200 Signature Required

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1416 Signature Required

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1452 Signature Required

1470 Signature Required

1488 Signature Required

1506 Signature Required

1524 Signature Required

1542 Signature Required

1560 Signature Required

1578 Signature Required

1596 Signature Required

1614 Signature Required

1632 Signature Required

1650 Signature Required

1668 Signature Required

1686 Signature Required

1704 Signature Required

1722 Signature Required

1740 Signature Required

1758 Signature Required

1776 Signature Required

1794 Signature Required

1812 Signature Required

1830 Signature Required

1848 Signature Required

1866 Signature Required

1884 Signature Required

1902 Signature Required

1920 Signature Required

1938 Signature Required

1956 Signature Required

1974 Signature Required

1992 Signature Required

2010 Signature Required

2028 Signature Required

2046 Signature Required

2064 Signature Required

2082 Signature Required

2100 Signature Required

2118 Signature Required

2136 Signature Required

2154 Signature Required

2172 Signature Required

2190 Signature Required

2208 Signature Required

2226 Signature Required

2244 Signature Required

2262 Signature Required

2280 Signature Required

2298 Signature Required

2316 Signature Required

2334 Signature Required

2352 Signature Required

2370 Signature Required

2388 Signature Required

2406 Signature Required

2424 Signature Required

2442 Signature Required

2460 Signature Required

2478 Signature Required

2496 Signature Required

2514 Signature Required

2532 Signature Required

2550 Signature Required

2568 Signature Required

2586 Signature Required

2604 Signature Required

2622 Signature Required

2640 Signature Required

2658 Signature Required

2676 Signature Required

2694 Signature Required

2712 Signature Required

2730 Signature Required

2748 Signature Required

2766 Signature Required

2784 Signature Required

2802 Signature Required

2820 Signature Required

2838 Signature Required

2856 Signature Required

2874 Signature Required

2892 Signature Required

2910 Signature Required

2928 Signature Required

2946 Signature Required

2964 Signature Required

2982 Signature Required

3000 Signature Required

Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 200-16916-1

SDG Number: 200-16916

Login Number: 16916
List Number: 1
Creator: Marion, Greg T

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	NO SEAL NUMBERS
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	AMBIENT
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATT15LLCAL4w_00075	07/15/13	05/03/13		15.463 L	ATTO15CAL6w_00069	155 mL	1,1,1-Trichloroethane	0.20044 ppb v/v
							1,1,2,2-Tetrachloroethane	0.20044 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.20044 ppb v/v
							1,1,2-Trichloroethane	0.20044 ppb v/v
							1,1-Dichloroethane	0.20044 ppb v/v
							1,1-Dichloroethene	0.20044 ppb v/v
							1,2,4-Trichlorobenzene	0.20044 ppb v/v
							1,2,4-Trimethylbenzene	0.20044 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20044 ppb v/v
							1,2-Dichlorobenzene	0.20044 ppb v/v
							1,2-Dichloroethane	0.20044 ppb v/v
							1,2-Dichloroethene, cis-	0.20044 ppb v/v
							1,2-Dichloroethene, trans-	0.20044 ppb v/v
							1,2-Dichloropropane	0.20044 ppb v/v
							1,3,5-Trimethylbenzene	0.20044 ppb v/v
							1,3-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dioxane	0.20044 ppb v/v
							2-Butanone (MEK)	0.20044 ppb v/v
							2-Chlorotoluene	0.20044 ppb v/v
2-Methyl-2-propanol	0.20044 ppb v/v							
3-Chloro-1-propene	0.20044 ppb v/v							
4-Ethyltoluene	0.20044 ppb v/v							
4-Methyl-2-pentanone (MIBK)	0.20044 ppb v/v							
Acetone	0.20044 ppb v/v							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	0.20044 ppb v/v
							Bromoform	0.20044 ppb v/v
							Bromomethane	0.20044 ppb v/v
							Butadiene	0.20044 ppb v/v
							Carbon disulfide	0.20044 ppb v/v
							Carbon tetrachloride	0.20044 ppb v/v
							Chlorobenzene	0.20044 ppb v/v
							Chlorodibromomethane	0.20044 ppb v/v
							Chloroethane	0.20044 ppb v/v
							Chloroform	0.20044 ppb v/v
							Chloromethane	0.20044 ppb v/v
							cis-1,3-Dichloropropene	0.20044 ppb v/v
							Cyclohexane	0.20044 ppb v/v
							Dichlorobromomethane	0.20044 ppb v/v
							Dichlorodifluoromethane	0.20044 ppb v/v
							Ethylbenzene	0.20044 ppb v/v
							Ethylene Dibromide	0.20044 ppb v/v
							Hexachlorobutadiene	0.20044 ppb v/v
							Hexane	0.20044 ppb v/v
							Isooctane	0.20044 ppb v/v
							Isopropyl alcohol	0.20044 ppb v/v
							m-Xylene & p-Xylene	0.400879 ppb v/v
							Methyl methacrylate	0.20044 ppb v/v
							Methyl tert-butyl ether	0.20044 ppb v/v
							Methylene Chloride	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Heptane	0.20044 ppb v/v
							o-Xylene	0.20044 ppb v/v
							Styrene	0.20044 ppb v/v
							Tetrachloroethene	0.20044 ppb v/v
							Tetrahydrofuran	0.20044 ppb v/v
							Toluene	0.20044 ppb v/v
							trans-1,3-Dichloropropene	0.20044 ppb v/v
							Trichloroethene	0.20044 ppb v/v
							Trichlorofluoromethane	0.20044 ppb v/v
							Vinyl bromide	0.20044 ppb v/v
							Vinyl chloride	0.20044 ppb v/v
.ATTO15CAL6w_00069	07/15/13	05/02/13	DI WATER, Lot 3535	15.463 L	ATTO15CALSTKi_00042	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
..ATTO15CALSTKi_00042	07/15/13	04/15/13	DI WATER, Lot 4985	52.5 L	ATTO15CALs_00009	10500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
...ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL2w_00079	07/15/13	05/03/13	DI WATER, Lot 5464	15.463 L	ATTO15CAL6w_00069	387 mL	1,1,1-Trichloroethane	0.500453 ppb v/v
							1,1,2,2-Tetrachloroethane	0.500453 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.500453 ppb v/v
							1,1,2-Trichloroethane	0.500453 ppb v/v
							1,1-Dichloroethane	0.500453 ppb v/v
							1,1-Dichloroethene	0.500453 ppb v/v
							1,2,4-Trichlorobenzene	0.500453 ppb v/v
							1,2,4-Trimethylbenzene	0.500453 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.500453 ppb v/v
							1,2-Dichlorobenzene	0.500453 ppb v/v
							1,2-Dichloroethane	0.500453 ppb v/v
							1,2-Dichloroethene, cis-	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethene, trans-	0.500453 ppb v/v
							1,2-Dichloropropane	0.500453 ppb v/v
							1,3,5-Trimethylbenzene	0.500453 ppb v/v
							1,3-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dioxane	0.500453 ppb v/v
							2-Butanone (MEK)	0.500453 ppb v/v
							2-Chlorotoluene	0.500453 ppb v/v
							2-Methyl-2-propanol	0.500453 ppb v/v
							3-Chloro-1-propene	0.500453 ppb v/v
							4-Ethyltoluene	0.500453 ppb v/v
							4-Methyl-2-pentanone (MIBK)	0.500453 ppb v/v
							Acetone	0.500453 ppb v/v
							Benzene	0.500453 ppb v/v
							Bromoform	0.500453 ppb v/v
							Bromomethane	0.500453 ppb v/v
							Butadiene	0.500453 ppb v/v
							Carbon disulfide	0.500453 ppb v/v
							Carbon tetrachloride	0.500453 ppb v/v
							Chlorobenzene	0.500453 ppb v/v
							Chlorodibromomethane	0.500453 ppb v/v
							Chloroethane	0.500453 ppb v/v
							Chloroform	0.500453 ppb v/v
							Chloromethane	0.500453 ppb v/v
							cis-1,3-Dichloropropene	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	0.500453 ppb v/v
							Dichlorobromomethane	0.500453 ppb v/v
							Dichlorodifluoromethane	0.500453 ppb v/v
							Ethylbenzene	0.500453 ppb v/v
							Ethylene Dibromide	0.500453 ppb v/v
							Hexachlorobutadiene	0.500453 ppb v/v
							Hexane	0.500453 ppb v/v
							Isooctane	0.500453 ppb v/v
							Isopropyl alcohol	0.500453 ppb v/v
							m-Xylene & p-Xylene	1.00091 ppb v/v
							Methyl methacrylate	0.500453 ppb v/v
							Methyl tert-butyl ether	0.500453 ppb v/v
							Methylene Chloride	0.500453 ppb v/v
							n-Heptane	0.500453 ppb v/v
							o-Xylene	0.500453 ppb v/v
							Styrene	0.500453 ppb v/v
							Tetrachloroethene	0.500453 ppb v/v
							Tetrahydrofuran	0.500453 ppb v/v
							Toluene	0.500453 ppb v/v
							trans-1,3-Dichloropropene	0.500453 ppb v/v
							Trichloroethene	0.500453 ppb v/v
							Trichlorofluoromethane	0.500453 ppb v/v
							Vinyl bromide	0.500453 ppb v/v
							Vinyl chloride	0.500453 ppb v/v
.ATTO15CAL6w_00069	07/15/13	05/02/13	DI WATER, Lot 3535	15.463 L	ATTO15CALSTKi_00042	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
..ATTO15CALSTKi_00042	07/15/13	04/15/13	DI WATER, Lot 4985	52.5 L	ATTO15CALs_00009	10500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
...ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	1 ppm v/v
ATTO15CAL3w_00107	07/15/13	05/02/13	DI WATER, Lot 5465	15.463 L	ATTO15CALSTKi_00042	386 mL	1,1,1-Trichloroethane	4.99256 ppb v/v
							1,1,2,2-Tetrachloroethane	4.99256 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	4.99256 ppb v/v
							1,1,2-Trichloroethane	4.99256 ppb v/v
							1,1-Dichloroethane	4.99256 ppb v/v
							1,1-Dichloroethene	4.99256 ppb v/v
							1,2,4-Trichlorobenzene	4.99256 ppb v/v
							1,2,4-Trimethylbenzene	4.99256 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	4.99256 ppb v/v
							1,2-Dichlorobenzene	4.99256 ppb v/v
							1,2-Dichloroethane	4.99256 ppb v/v
							1,2-Dichloroethene, cis-	4.99256 ppb v/v
							1,2-Dichloroethene, trans-	4.99256 ppb v/v
							1,2-Dichloropropane	4.99256 ppb v/v
							1,3,5-Trimethylbenzene	4.99256 ppb v/v
							1,3-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dioxane	4.99256 ppb v/v
							2-Butanone (MEK)	4.99256 ppb v/v
							2-Chlorotoluene	4.99256 ppb v/v
2-Methyl-2-propanol	4.99256 ppb v/v							
3-Chloro-1-propene	4.99256 ppb v/v							
4-Ethyltoluene	4.99256 ppb v/v							
4-Methyl-2-pentanone (MIBK)	4.99256 ppb v/v							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	4.99256 ppb v/v
							Benzene	4.99256 ppb v/v
							Bromoform	4.99256 ppb v/v
							Bromomethane	4.99256 ppb v/v
							Butadiene	4.99256 ppb v/v
							Carbon disulfide	4.99256 ppb v/v
							Carbon tetrachloride	4.99256 ppb v/v
							Chlorobenzene	4.99256 ppb v/v
							Chlorodibromomethane	4.99256 ppb v/v
							Chloroethane	4.99256 ppb v/v
							Chloroform	4.99256 ppb v/v
							Chloromethane	4.99256 ppb v/v
							cis-1,3-Dichloropropene	4.99256 ppb v/v
							Cyclohexane	4.99256 ppb v/v
							Dichlorobromomethane	4.99256 ppb v/v
							Dichlorodifluoromethane	4.99256 ppb v/v
							Ethylbenzene	4.99256 ppb v/v
							Ethylene Dibromide	4.99256 ppb v/v
							Hexachlorobutadiene	4.99256 ppb v/v
							Hexane	4.99256 ppb v/v
							Isooctane	4.99256 ppb v/v
							Isopropyl alcohol	4.99256 ppb v/v
							m-Xylene & p-Xylene	9.98513 ppb v/v
							Methyl methacrylate	4.99256 ppb v/v
							Methyl tert-butyl ether	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	4.99256 ppb v/v
							n-Heptane	4.99256 ppb v/v
							o-Xylene	4.99256 ppb v/v
							Styrene	4.99256 ppb v/v
							Tetrachloroethene	4.99256 ppb v/v
							Tetrahydrofuran	4.99256 ppb v/v
							Toluene	4.99256 ppb v/v
							trans-1,3-Dichloropropene	4.99256 ppb v/v
							Trichloroethene	4.99256 ppb v/v
							Trichlorofluoromethane	4.99256 ppb v/v
							Vinyl bromide	4.99256 ppb v/v
							Vinyl chloride	4.99256 ppb v/v
.ATTO15CALSTKi_00042	07/15/13	04/15/13	DI WATER, Lot 4985	52.5 L	ATTO15CALs_00009	10500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL4w_00274	07/15/13	05/02/13	DI WATER, Lot 5447	15.463 L	ATTO15CALSTKi_00042	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, cis-	9.99806 ppb v/v
							1,2-Dichloroethene, trans-	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2-Butanone (MEK)	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v
							2-Methyl-2-propanol	9.99806 ppb v/v
							3-Chloro-1-propene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Ethyltoluene	9.99806 ppb v/v
							4-Methyl-2-pentanone (MIBK)	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Butadiene	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chlorodibromomethane	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dichlorobromomethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Ethylene Dibromide	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Hexane	9.99806 ppb v/v
							Isooctane	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m-Xylene & p-Xylene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							o-Xylene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl bromide	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
.ATTO15CALSTKi_00042	07/15/13	04/15/13	DI WATER, Lot 4985	52.5 L	ATTO15CALs_00009	10500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL4w_00278	08/24/13	05/30/13	DI WATER, Lot 3155	15.463 L	ATTO15CALSTKi_00043	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, cis-	9.99806 ppb v/v
							1,2-Dichloroethene, trans-	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
.ATTO15CALSTKi_00043	08/24/13	05/24/13	DI WATER, Lot 7952	52.5 L	ATTO15CALs_00009	10500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Vinyl chloride	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATTO15CAL5w_00035	07/15/13	05/02/13	DI WATER, Lot 3646	15.463 L	ATTO15CALSTKi_00042	1160 mL	1,1,1-Trichloroethane	15.0036 ppb v/v
							1,1,2,2-Tetrachloroethane	15.0036 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	15.0036 ppb v/v
							1,1,2-Trichloroethane	15.0036 ppb v/v
							1,1-Dichloroethane	15.0036 ppb v/v
							1,1-Dichloroethene	15.0036 ppb v/v
							1,2,4-Trichlorobenzene	15.0036 ppb v/v
							1,2,4-Trimethylbenzene	15.0036 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	15.0036 ppb v/v
							1,2-Dichlorobenzene	15.0036 ppb v/v
							1,2-Dichloroethane	15.0036 ppb v/v
							1,2-Dichloroethene, cis-	15.0036 ppb v/v
							1,2-Dichloroethene, trans-	15.0036 ppb v/v
							1,2-Dichloropropane	15.0036 ppb v/v
							1,3,5-Trimethylbenzene	15.0036 ppb v/v
							1,3-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dioxane	15.0036 ppb v/v
							2-Butanone (MEK)	15.0036 ppb v/v
							2-Chlorotoluene	15.0036 ppb v/v
							2-Methyl-2-propanol	15.0036 ppb v/v
3-Chloro-1-propene	15.0036 ppb v/v							
4-Ethyltoluene	15.0036 ppb v/v							
4-Methyl-2-pentanone (MIBK)	15.0036 ppb v/v							
Acetone	15.0036 ppb v/v							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	15.0036 ppb v/v
							Bromoform	15.0036 ppb v/v
							Bromomethane	15.0036 ppb v/v
							Butadiene	15.0036 ppb v/v
							Carbon disulfide	15.0036 ppb v/v
							Carbon tetrachloride	15.0036 ppb v/v
							Chlorobenzene	15.0036 ppb v/v
							Chlorodibromomethane	15.0036 ppb v/v
							Chloroethane	15.0036 ppb v/v
							Chloroform	15.0036 ppb v/v
							Chloromethane	15.0036 ppb v/v
							cis-1,3-Dichloropropene	15.0036 ppb v/v
							Cyclohexane	15.0036 ppb v/v
							Dichlorobromomethane	15.0036 ppb v/v
							Dichlorodifluoromethane	15.0036 ppb v/v
							Ethylbenzene	15.0036 ppb v/v
							Ethylene Dibromide	15.0036 ppb v/v
							Hexachlorobutadiene	15.0036 ppb v/v
							Hexane	15.0036 ppb v/v
							Isooctane	15.0036 ppb v/v
							Isopropyl alcohol	15.0036 ppb v/v
							m-Xylene & p-Xylene	30.0071 ppb v/v
							Methyl methacrylate	15.0036 ppb v/v
							Methyl tert-butyl ether	15.0036 ppb v/v
							Methylene Chloride	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Heptane	15.0036 ppb v/v
							o-Xylene	15.0036 ppb v/v
							Styrene	15.0036 ppb v/v
							Tetrachloroethene	15.0036 ppb v/v
							Tetrahydrofuran	15.0036 ppb v/v
							Toluene	15.0036 ppb v/v
							trans-1,3-Dichloropropene	15.0036 ppb v/v
							Trichloroethene	15.0036 ppb v/v
							Trichlorofluoromethane	15.0036 ppb v/v
							Vinyl bromide	15.0036 ppb v/v
							Vinyl chloride	15.0036 ppb v/v
.ATTO15CALSTKi_00042	07/15/13	04/15/13	DI WATER, Lot 4985	52.5 L	ATTO15CALs_00009	10500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL6w_00069	07/15/13	05/02/13	DI WATER, Lot 3535	15.463 L	ATTO15CALSTKi_00042	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
.ATTO15CALSTKi_00042	07/15/13	04/15/13	DI WATER, Lot 4985	52.5 L	ATTO15CALs_00009	10500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL7w_00037	07/15/13	05/02/13	DI WATER, Lot 3503	15.463 L	ATTO15CALSTKi_00042	3092 mL	1,1,1-Trichloroethane	39.9922 ppb v/v
							1,1,2,2-Tetrachloroethane	39.9922 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	39.9922 ppb v/v
							1,1,2-Trichloroethane	39.9922 ppb v/v
							1,1-Dichloroethane	39.9922 ppb v/v
							1,1-Dichloroethene	39.9922 ppb v/v
							1,2,4-Trichlorobenzene	39.9922 ppb v/v
							1,2,4-Trimethylbenzene	39.9922 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	39.9922 ppb v/v
							1,2-Dichlorobenzene	39.9922 ppb v/v
							1,2-Dichloroethane	39.9922 ppb v/v
							1,2-Dichloroethene, cis-	39.9922 ppb v/v
							1,2-Dichloroethene, trans-	39.9922 ppb v/v
							1,2-Dichloropropane	39.9922 ppb v/v
							1,3,5-Trimethylbenzene	39.9922 ppb v/v
							1,3-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dioxane	39.9922 ppb v/v
							2-Butanone (MEK)	39.9922 ppb v/v
							2-Chlorotoluene	39.9922 ppb v/v
							2-Methyl-2-propanol	39.9922 ppb v/v
							3-Chloro-1-propene	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Ethyltoluene	39.9922 ppb v/v
							4-Methyl-2-pentanone (MIBK)	39.9922 ppb v/v
							Acetone	39.9922 ppb v/v
							Benzene	39.9922 ppb v/v
							Bromoform	39.9922 ppb v/v
							Bromomethane	39.9922 ppb v/v
							Butadiene	39.9922 ppb v/v
							Carbon disulfide	39.9922 ppb v/v
							Carbon tetrachloride	39.9922 ppb v/v
							Chlorobenzene	39.9922 ppb v/v
							Chlorodibromomethane	39.9922 ppb v/v
							Chloroethane	39.9922 ppb v/v
							Chloroform	39.9922 ppb v/v
							Chloromethane	39.9922 ppb v/v
							cis-1,3-Dichloropropene	39.9922 ppb v/v
							Cyclohexane	39.9922 ppb v/v
							Dichlorobromomethane	39.9922 ppb v/v
							Dichlorodifluoromethane	39.9922 ppb v/v
							Ethylbenzene	39.9922 ppb v/v
							Ethylene Dibromide	39.9922 ppb v/v
							Hexachlorobutadiene	39.9922 ppb v/v
							Hexane	39.9922 ppb v/v
							Isooctane	39.9922 ppb v/v
							Isopropyl alcohol	39.9922 ppb v/v
							m-Xylene & p-Xylene	79.9845 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl methacrylate	39.9922 ppb v/v
							Methyl tert-butyl ether	39.9922 ppb v/v
							Methylene Chloride	39.9922 ppb v/v
							n-Heptane	39.9922 ppb v/v
							o-Xylene	39.9922 ppb v/v
							Styrene	39.9922 ppb v/v
							Tetrachloroethene	39.9922 ppb v/v
							Tetrahydrofuran	39.9922 ppb v/v
							Toluene	39.9922 ppb v/v
							trans-1,3-Dichloropropene	39.9922 ppb v/v
							Trichloroethene	39.9922 ppb v/v
							Trichlorofluoromethane	39.9922 ppb v/v
							Vinyl bromide	39.9922 ppb v/v
							Vinyl chloride	39.9922 ppb v/v
.ATTO15CALSTKi_00042	07/15/13	04/15/13	DI WATER, Lot 4985	52.5 L	ATTO15CALs_00009	10500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

SDG No.: 200-16916

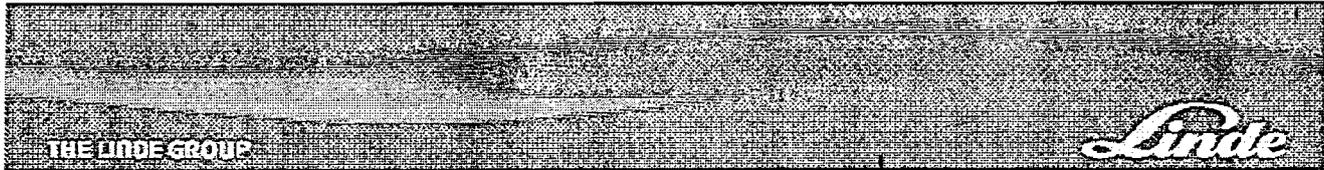
Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15GIS_00007	11/15/15		Spectra Gases, Lot CC-344439			(Purchased Reagent)	1,4-Difluorobenzene	100 ppb v/v
							Chlorobenzene-d5	100 ppb v/v
							Chlorobromomethane	100 ppb v/v
ATTO15LCSW_00287	06/25/13	04/29/13	DI WATER, Lot 5414	15.463 L	ATTO15LCSSTKi_00038	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, cis-	9.99806 ppb v/v
							1,2-Dichloroethene, trans-	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
.ATTO15LCSSTKi_00038	07/17/13	04/16/13	DI WATER, Lot 4984	52.5 L	ATTO15LCSS_00011	10500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15LCSS_00011	12/05/13		Spectra Gases, Lot CC-230119			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-16916-1

SDG No.: 200-16916

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Vinyl chloride	1 ppm v/v



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30 Community Drive, Suite 11
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PAGE: 1 of 4



439415

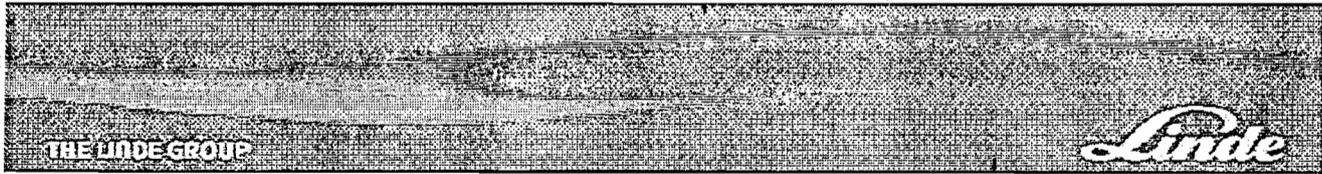
ID: ATTO15CALs_00009
Exp:12/05/13 Pripd:WRD Opn:12/05/12
TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#: 109735129
Production#: 2851880
Certification Date: Dec-05-2012
P.O.# : Verbal-Recert
Blend Type: CERTIFIED
Material#: 14004443
Traceability: NIST by weight
Expiration Date: Dec-05-2013
Do NOT use under: 150 psig

Cylinder Size: 2A (8" X 47.5")
Cylinder # : CC-250179
Cylinder Pressure: 1100 psig
Cylinder Valve: CGA 350 / Steel
Cylinder Volume: 29.5 Liter
Cylinder Material: Aluminum
Gas Volume: 2200 Liter
Blend Tolerance: 10% Relative
Analytical Accuracy: 5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Propylene	115-07-1	1.00 ppm	1.04 ppm
Chlorodifluoromethane	75-45-6	1.00 ppm	1.02 ppm
Freon-12	75-71-8	1.00 ppm	0.97 ppm
Chloromethane	74-87-3	1.00 ppm	0.98 ppm
Freon-114	76-14-2	1.00 ppm	0.98 ppm
Vinyl Chloride	75-01-4	1.00 ppm	0.98 ppm
1,3-Butadiene	106-99-0	1.00 ppm	1.01 ppm
Methanol (No Stability Guarantee)	67-56-1	1.00 ppm	0.94 ppm
n-Butane	106-97-8	1.00 ppm	1.03 ppm
Bromomethane	74-83-9	1.00 ppm	1.00 ppm
Chloroethane	75-00-3	1.00 ppm	0.98 ppm
Vinyl Bromide	593-60-2	1.00 ppm	1.06 ppm
Acetonitrile (Analytical Accuracy +/-10%)		1.00 ppm	1.02 ppm
Acrolein (Analytical Accuracy +/-10%)		1.00 ppm	1.10 ppm
Isopentane	78-78-4	1.00 ppm	1.06 ppm
Acetone	67-64-1	1.00 ppm	1.06 ppm
Freon-11	75-69-4	1.00 ppm	0.95 ppm
Isopropyl Alcohol	67-63-0	1.00 ppm	1.01 ppm
Acrylonitrile	107-13-1	1.00 ppm	1.06 ppm
n-Pentane	109-66-0	1.00 ppm	1.06 ppm
Ethyl Ether	60-29-7	1.00 ppm	1.09 ppm
1,1-Dichloroethene	75-35-4	1.00 ppm	0.98 ppm
Carbon Disulfide (Analytical Accuracy +/- 10%)	75-15-0	1.00 ppm	1.03 ppm
Methylene Chloride	75-09-2	1.00 ppm	1.03 ppm
Tert-Butanol		1.00 ppm	1.03 ppm
3-Chloropropene	107-05-1	1.00 ppm	1.03 ppm
Freon-113	76-13-1	1.00 ppm	0.97 ppm
Trans-1,2-Dichloroethene	156-60-5	1.00 ppm	1.04 ppm
1,1-Dichloroethane	75-34-3	1.00 ppm	1.02 ppm
Methyl Tert Butyl Ether	1634-04-4	1.00 ppm	1.04 ppm



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439415

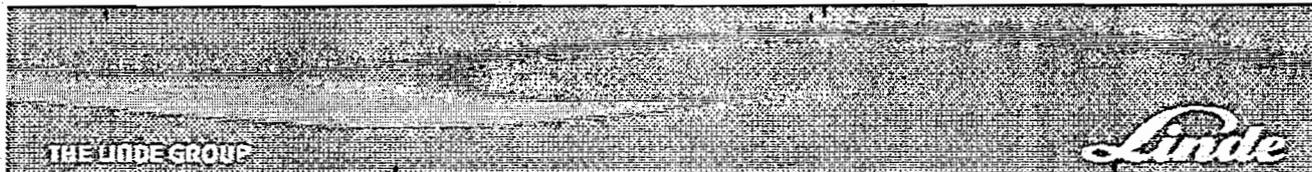
ID: ATTO15CALs_00009
Exp: 12/05/13 Ppd: WRD Opr: 12/05/12
TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#: 109735129
Production#: 2851880
Certification Date: Dec-05-2012
P.O.# : Verbal-Recert
Blend Type: CERTIFIED
Material#: 14004443
Traceability: NIST by weight
Expiration Date: Dec-05-2013
Do NOT use under: 150 psig

Cylinder Size: 2A (8" X 47.5")
Cylinder # : CC-250179
Cylinder Pressure: 1100 psig
Cylinder Valve: CGA 350 / Steel
Cylinder Volume: 29.5 Liter
Cylinder Material: Aluminum
Gas Volume: 2200 Liter
Blend Tolerance: 10% Relative
Analytical Accuracy: 5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Vinyl Acetate	108-05-4	1.00 ppm	1.03 ppm
Methyl Ethyl Ketone	78-93-3	1.00 ppm	1.09 ppm
Cis-1,2-Dichloroethene	156-59-2	1.00 ppm	1.02 ppm
Hexane	110-54-3	1.00 ppm	1.09 ppm
Chloroform	67-66-3	1.00 ppm	1.04 ppm
Ethyl Acetate	141-78-6	1.00 ppm	1.04 ppm
Tetrahydrofuran	109-99-9	1.00 ppm	1.08 ppm
1,2-Dichloroethane	107-06-2	1.00 ppm	1.04 ppm
1,1,1-Trichloroethane	71-55-6	1.00 ppm	1.02 ppm
Benzene	71-43-2	1.00 ppm	1.04 ppm
1-Butanol	71-36-3	1.00 ppm	1.07 ppm
Carbon Tetrachloride	56-23-5	1.00 ppm	1.05 ppm
Cyclohexane	110-82-7	1.00 ppm	1.06 ppm
Dibromomethane	74-95-3	1.00 ppm	1.05 ppm
1,2-Dichloropropane	78-87-5	1.00 ppm	1.05 ppm
Trichloroethylene	79-01-6	1.00 ppm	1.05 ppm
Bromodichloromethane	75-27-4	1.00 ppm	1.05 ppm
1,4-Dioxane	123-91-1	1.00 ppm	1.05 ppm
2,2,4-Trimethylpentane	540-84-1	1.00 ppm	1.03 ppm
Methyl Methacrylate	80-62-6	1.00 ppm	1.06 ppm
Heptane	142-82-5	1.00 ppm	1.06 ppm
Cis-1,3-Dichloropropene	10061-01-5	1.00 ppm	1.03 ppm
Methyl Isobutyl Ketone	108-10-1	1.00 ppm	1.06 ppm
Trans-1,3-Dichloropropene	10061-02-6	1.00 ppm	1.12 ppm
1,1,2-Trichloroethane	79-00-5	1.00 ppm	1.08 ppm
Toluene	108-88-3	1.00 ppm	1.07 ppm
Methyl Butyl Ketone	591-78-6	1.00 ppm	1.10 ppm
Dibromochloromethane	124-48-1	1.00 ppm	1.09 ppm
1,2-Dibromoethane	106-93-4	1.00 ppm	1.07 ppm
n-Octane	111-65-9	1.00 ppm	1.05 ppm



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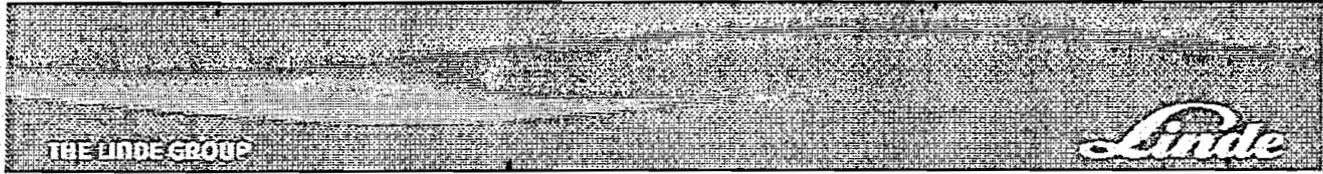
439415

ID: ATTO15CALs_00009
Exp: 12/05/13 Prpd: WRD Opm: 12/05/12
TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#:	109735129	Cylinder Size:	2A (8" X 47.5")
Production#:	2851880	Cylinder # :	CC-250179
Certification Date:	Dec-05-2012	Cylinder Pressure:	1100 psig
P.O.# :	Verbal-Recert	Cylinder Valve:	CGA 350 / Steel
Blend Type:	CERTIFIED	Cylinder Volume:	29.5 Liter
Material#:	14004443	Cylinder Material:	Aluminum
Traceability:	NIST by weight	Gas Volume:	2200 Liter
Expiration Date:	Dec-05-2013	Blend Tolerance:	10% Relative
Do NOT use under:	150 psig	Analytical Accuracy:	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Tetrachloroethylene	127-18-4	1.00 ppm	1.00 ppm
Chlorobenzene	108-90-7	1.00 ppm	1.09 ppm
Ethylbenzene	100-41-4	1.00 ppm	1.06 ppm
p-xylene	106-42-3	1.00 ppm	1.05 ppm
m-xylene	108-38-3	1.00 ppm	1.05 ppm
Bromoform	75-25-2	1.00 ppm	1.05 ppm
Styrene	100-42-5	1.00 ppm	1.08 ppm
o-xylene	95-47-6	1.00 ppm	1.08 ppm
1,1,2,2-Tetrachloroethane	79-34-5	1.00 ppm	1.08 ppm
1,2,3-Trichloropropane	96-18-4	1.00 ppm	1.05 ppm
Nonane	111-84-2	1.00 ppm	1.03 ppm
Cumene	98-82-8	1.00 ppm	1.05 ppm
2-Chlorotoluene	95-49-8	1.00 ppm	1.08 ppm
n-Propylbenzene	103-65-1	1.00 ppm	1.00 ppm
4-Ethyltoluene	622-96-8	1.00 ppm	1.07 ppm
1,3,5-Trimethylbenzene	108-67-8	1.00 ppm	1.07 ppm
alpha-Methyl Styrene (no stability guarantee)	98-83-9	1.00 ppm	1.03 ppm
Tert-Butyl Benzene	98-06-6	1.00 ppm	1.05 ppm
1,2,4-Trimethylbenzene	95-63-6	1.00 ppm	1.05 ppm
1,3-Dichlorobenzene	541-73-1	1.00 ppm	1.09 ppm
Benzyl Chloride (Analytical Accuracy +/- 10%)	100-44-7	1.00 ppm	1.09 ppm
n-Decane	124-18-5	1.00 ppm	1.05 ppm
1,4-Dichlorobenzene	106-46-7	1.00 ppm	1.05 ppm
Sec-Butyl Benzene	135-98-8	1.00 ppm	1.02 ppm
4-Isopropyltoluene	99-87-6	1.00 ppm	1.02 ppm
1,2-Dichlorobenzene	95-50-1	1.00 ppm	1.10 ppm
n-Butyl Benzene	104-51-8	1.00 ppm	1.04 ppm
n-Undecane	1120-21-4	1.00 ppm	0.97 ppm



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 30 Community Drive, Suite 11
 South Burlington, VT 05403

PAGE: 4 of 4



439415

ID: ATTO15CALs_00009
 Exp:12/05/13 Prip:WRD Opr:12/05/12
 TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#: 109735129
Production#: 2851880
Certification Date: Dec-05-2012
P.O.# : Verbal-Recert
Blend Type: CERTIFIED
Material#: 14004443
Traceability: NIST by weight
Expiration Date: Dec-05-2013
Do NOT use under: 150 psig

Cylinder Size: 2A (8" X 47.5")
Cylinder # : CC-250179
Cylinder Pressure: 1100 psig
Cylinder Valve: CGA 350 / Steel
Cylinder Volume: 29.5 Liter
Cylinder Material: Aluminum
Gas Volume: 2200 Liter
Blend Tolerance: 10% Relative
Analytical Accuracy: 5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
1,2,4-Trichlorobenzene	120-82-1	1.00 ppm	1.08 ppm
Naphthalene (Analytical Accuracy +/- 10%)	91-20-3	1.00 ppm	1.03 ppm
n-Dodecane	112-40-3	1.00 ppm	0.95 ppm
1,2,3-Trichlorobenzene	87-61-6	1.00 ppm	1.05 ppm
Hexachloro-1,3-Butadiene	87-68-3	1.00 ppm	1.09 ppm
Nitrogen	7727-37-9	Balance	Balance

ANALYST: Lou Lorenzetti
 Lou Lorenzetti

DATE: Dec-05-2012



Spectra Gases, Inc.

3434 Route 22 West, Branchburg, New Jersey 08876 USA

ISO 9001:2000

Recut AT 02-010-05 11/10/08 -> 11/10/09

-CS

Corporate Cal Mix.

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208 South Park Drive, Suite 1
Colchester, VT 05446
PAGE: 1 of 4
Exp 1/6/10
MTP 3/2/09

AT 0200614 Lot # 2426

CERTIFICATE OF ANALYSIS

1/9/06 DWW

SGI ORDER #: 0082390
ITEM#: 1
CERTIFICATION DATE: 12/28/2005
P.O.#: 2129987
BLEND TYPE: CERTIFIED
CYLINDER #: CC-230119
CYLINDER PRES: 2000 psig
CYLINDER VALVE: CGA 350
PRODUCT EXPIRATION DATE: 12/28/2006
Recut 1/12/07



439437
ID: ATTO15LCSs_00011
Exp: 12/05/13 Prip: WRD Opn: 12/14/10
TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Propylene	1.00 ppm	1.05 ppm
Freon-22	1.00 ppm	1.04 ppm
Freon-12	1.00 ppm	0.99 ppm
Chloromethane	1.00 ppm	0.99 ppm
Freon-114	1.00 ppm	0.96 ppm
Vinyl Chloride	1.00 ppm	0.99 ppm
1,3-Butadiene	1.00 ppm	1.07 ppm
Methanol (no stability guarantee)	1.00 ppm	1.08 ppm
n-Butane	1.00 ppm	1.03 ppm
Bromomethane	1.00 ppm	0.98 ppm
Chloroethane	1.00 ppm	0.97 ppm
Vinyl Bromide	1.00 ppm	1.05 ppm
Carbon Disulfide (no stability guarantee)	1.00 ppm	1.05 ppm
Acetonitrile	1.00 ppm	1.10 ppm
Acrolien (no stability guarantee)	1.00 ppm	1.06 ppm
Isopentane	1.00 ppm	1.09 ppm
Acetone	1.00 ppm	1.02 ppm
Freon-11	1.00 ppm	1.02 ppm
Isopropyl Alcohol	1.00 ppm	1.05 ppm
Acrylonitrile	1.00 ppm	1.08 ppm
Pentane	1.00 ppm	1.07 ppm
Ethyl Ether	1.00 ppm	1.06 ppm
1,1-Dichloroethene	1.00 ppm	1.09 ppm
Methylene Chloride	1.00 ppm	1.05 ppm
Tert-Butyl Alcohol	1.00 ppm	1.10 ppm
3-Chloropropene	1.00 ppm	1.10 ppm
Freon-113	1.00 ppm	1.07 ppm
Trans-1,2-Dichloroethene	1.00 ppm	1.03 ppm
1,1-Dichloroethane	1.00 ppm	1.04 ppm
Methyl Tert Butyl Ether	1.00 ppm	1.07 ppm



3434 Route 22 West, Branchburg, New Jersey 08876 USA

ISO 9001:2000

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SHIPPED TO: Severn Trent Labs - Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

PAGE: 2 of 4

**CERTIFICATE
OF
ANALYSIS**

SGI ORDER # :	0082390	CYLINDER # :	CC-230119
ITEM# :	1	CYLINDER PRES:	2000 psig
CERTIFICATION DATE:	12/28/2005	CYLINDER VALVE:	CGA 350
P.O.# :	2129987	PRODUCT EXPIRATION DATE:	12/28/2006
BLEND TYPE:	CERTIFIED		



439437

ID: ATTO15LCSs_00011
Exp: 12/05/13 P: 0 WRD Opn: 12/14/10
TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Vinyl Acetate	1.00 ppm	1.06 ppm
Methyl Ethyl Ketone	1.00 ppm	1.10 ppm
Cis-1,2-Dichloroethene	1.00 ppm	1.05 ppm
Hexane	1.00 ppm	1.10 ppm
Ethyl Acetate	1.00 ppm	1.07 ppm
Chloroform	1.00 ppm	1.07 ppm
Tetrahydrofuran	1.00 ppm	1.09 ppm
1,2-Dichloroethane	1.00 ppm	1.04 ppm
1,1,1-Trichloroethane	1.00 ppm	1.03 ppm
Benzene	1.00 ppm	1.03 ppm
1-Butanol	1.00 ppm	1.10 ppm
Carbon Tetrachloride	1.00 ppm	1.05 ppm
Cyclohexane	1.00 ppm	1.08 ppm
Dibromomethane	1.00 ppm	1.01 ppm
1,2-Dichloropropane	1.00 ppm	1.03 ppm
Trichloroethylene	1.00 ppm	1.04 ppm
Bromodichloromethane	1.00 ppm	1.04 ppm
1,4-Dioxane	1.00 ppm	1.04 ppm
2,2,4-Trimethylpentane	1.00 ppm	1.04 ppm
Methyl Methacrylate	1.00 ppm	1.06 ppm
Heptane	1.00 ppm	1.07 ppm
Cis-1,3-Dichloropropene	1.00 ppm	1.04 ppm
Methyl Isobutyl Ketone	1.00 ppm	1.07 ppm
Trans-1,3-Dichloropropene	1.00 ppm	1.10 ppm
1,1,2-Trichloroethane	1.00 ppm	1.01 ppm
Toluene	1.00 ppm	1.04 ppm
Methyl Butyl Ketone	1.00 ppm	1.08 ppm
Dibromochloromethane	1.00 ppm	1.10 ppm
1,2-Dibromoethane	1.00 ppm	0.99 ppm
n-Octane	1.00 ppm	1.04 ppm



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 ISO 9001:2000

SHIPPED FROM: 80 INDUSTRIAL DRIVE ALPHA, NJ. 08865

SHIPPED TO: Severn Trent Labs - Burlington
 208 South Park Drive, Suite 1
 Colchester, VT 05446

PAGE: 3 of 4

**CERTIFICATE
 OF
 ANALYSIS**

SGI ORDER # :	0082390	CYLINDER # :	CC-230119
ITEM# :	1	CYLINDER PRES:	2000 psig
CERTIFICATION DATE:	12/28/2005	CYLINDER VALVE:	CGA 350
P.O.# :	2129987	PRODUCT EXPIRATION DATE:	12/28/2006
BLEND TYPE:	CERTIFIED		



439437
 ID: ATTO15LCSs_00011
 Exp:12/05/13 Prpd:WRD Opn:12/14/10
 TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Tetrachloroethylene	1.00 ppm	1.02 ppm
Chlorobenzene	1.00 ppm	1.03 ppm
Ethylbenzene	1.00 ppm	1.04 ppm
p-Xylene	1.00 ppm	1.03 ppm
m-Xylene	1.00 ppm	1.03 ppm
Bromoform	1.00 ppm	1.03 ppm
Styrene	1.00 ppm	1.03 ppm
O-Xylene	1.00 ppm	1.02 ppm
1,1,2,2-Tetrachloroethane	1.00 ppm	1.02 ppm
1,2,3-Trichloropropane	1.00 ppm	1.04 ppm
Nonane	1.00 ppm	1.04 ppm
Cumene	1.00 ppm	1.07 ppm
2-Chlorotoluene	1.00 ppm	1.09 ppm
n-Propylbenzene	1.00 ppm	1.05 ppm
4-Ethyltoluene	1.00 ppm	1.10 ppm
1,3,5-Trimethylbenzene	1.00 ppm	1.04 ppm
a-Methylstyrene (no stability guarantee)	1.00 ppm	1.06 ppm
Tert-Butylbenzene	1.00 ppm	1.03 ppm
1,2,4-Trimethylbenzene	1.00 ppm	1.04 ppm
1,3-Dichlorobenzene	1.00 ppm	1.07 ppm
Benzyl Chloride (no stability guarantee)	1.00 ppm	1.07 ppm
n-Decane	1.00 ppm	1.03 ppm
1,4-Dichlorobenzene	1.00 ppm	1.01 ppm
Sec-Butylbenzene	1.00 ppm	1.03 ppm
4-Isopropyltoluene	1.00 ppm	1.04 ppm
1,2-Dichlorobenzene	1.00 ppm	1.01 ppm
n-Butylbenzene	1.00 ppm	1.03 ppm
n-Undecane	1.00 ppm	1.06 ppm
1,2,4-Trichlorobenzene	1.00 ppm	1.09 ppm
Napthalene (no stability guarantee)	1.00 ppm	1.10 ppm

SHIPPED FROM: 80 INDUSTRIAL DRIVE ALPHA, NJ. 08865

SHIPPED TO: Severn Trent Labs - Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

PAGE: 4 of 4

**CERTIFICATE
OF
ANALYSIS**

SGI ORDER # :	0082390	CYLINDER # :	CC-230119
ITEM# :	1	CYLINDER PRES:	2000 psig
CERTIFICATION DATE:	12/28/2005	CYLINDER VALVE:	CGA 350
P.O.# :	2129987	PRODUCT EXPIRATION DATE:	12/28/2006
BLEND TYPE:	CERTIFIED		



439437
ID: ATTO15LCSs_00011
Exp:12/05/13 PpPd:WRD Opn:12/14/10
TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
n-Dodecane	1.00 ppm	1.08 ppm
1,2,3-Trichlorobenzene	1.00 ppm	1.03 ppm
Hexachloro-1,3-Butadiene	1.00 ppm	1.06 ppm
Nitrogen	Balance	Balance

ANALYST: 
April Chamberlain

DATE: 12/29/2005



3434 Route 22 West, Branchburg, New Jersey 08876 USA

ISO 9001:2000

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SHIPPED TO: Severn Trent Labs
208 South Park Drive
Suite 1
Colchester, VT 05446

AT 02 008 13

Recat AT-02-010-13 exp 12/10/07

CERTIFICATE
OF
ANALYSIS

Instrument 1

SGI ORDER #: 101783
ITEM#: 1
CERTIFICATION DATE: 12/27/2006
P.O.#: 2172385
BLEND TYPE: CERTIFIED

CYLINDER #: CC-250115
CYLINDER PRES: 2000 psig
CYLINDER VALVE: CGA 350
PRODUCT EXPIRATION DATE: 12/27/2007

ANALYTICAL ACCURACY: +/- 10%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Bromochloromethane	100 ppb	103 ppb
1,4-Difluorobenzene	100 ppb	106 ppb
Chlorobenzene-d5	100 ppb	106 ppb
4-Bromofluorobenzene	100 ppb	107 ppb
Nitrogen	Balance	Balance



248052

ID: ATTO15CISs_00005

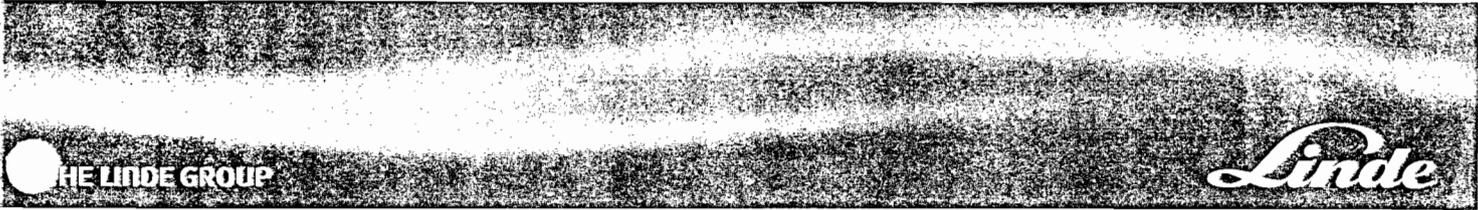
Exp 11/15/15 Prod WFO Ops 12/01/10
Internal Standard for Ins

ANALYST:

April Chamberlain
April Chamberlain

DATE:

12/27/2006



SHIPPED TO: Test America-Burlington
 30 Community Drive, Suite 11
 South Burlington, VT 05403

PAGE: 1 of 1

CERTIFICATE OF ANALYSIS

Sales#: 107763353
Production#: 1160209
Certification Date: 15/11/2010
P.O.# : 2391727
Blend Type: CERTIFIED
Material#: 24088974

Expiration Date: 15/11/2011
Do NOT use under: 150 psig



Cylinder Size: 2A (8" X 47.5")
Cylinder # : CC-344439
Cylinder Pressure: 2000 psig
Cylinder Valve: CGA 350 / Steel
Cylinder Volume: 29.5 Liter
Cylinder Material: Aluminum
Gas Volume: 4000 Liter
Blend Tolerance: 10% Relative
Analytical Accuracy: 10% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Bromochloromethane		100 ppb	104 ppb
1,4-Difluorobenzene		100 ppb	104 ppb
Chlorobenzene-d5		100 ppb	106 ppb
4-Bromofluorobenzene		100 ppb	104 ppb
Nitrogen		Balance	Balance

SOURCE REFERENCE# 269712

ANALYST: *Lou Lorenzetti*
 Lou Lorenzetti

DATE: 15/11/2010



3434 Route 22 West, Branchburg, New Jersey 08876 USA

ISO 9001:2000

G

SHIPPED FROM: 80 INDUSTRIAL DRIVE ALPHA, NJ. 08865

SHIPPED TO: Test America - Burlington
30 Community Drive
South Burlington, VT 05403 USA

AT02-00-13

CERTIFICATE
OF
ANALYSIS

SGI ORDER # :	140016	CYLINDER # :	CC-279057
ITEM# :	1	CYLINDER PRES:	2000 psig
CERTIFICATION DATE:	12/11/2008	CYLINDER VALVE:	CGA 350
P.O.# :	2282386	PRODUCT EXPIRATION DATE:	12/11/2009
BLEND TYPE:	CERTIFIED		

ANALYTICAL ACCURACY: +/-10%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Bromochloromethane	100 ppb	103 ppb
1,4-Difluorobenzene	100 ppb	106 ppb
Chlorobenzene-d5	100 ppb	107 ppb
4-Bromofluorobenzene	100 ppb	107 ppb
Nitrogen	Balance	Balance

248058
 ID: ATTO15GIS_00006
 Exp. 11/15/15 Piped WFO Open 1301/10
 Instrument G Internal Sta

SOURCE REFERENCE # 260788

ANALYST: Matthew Booth
Matthew Booth

DATE: 12/11/2008

METHODOLOGY SUMMARY

Laboratory: TestAmerica Laboratories

Project No: NA

Location: South Burlington, Vermont

SDG No: 200-16916

VOA

Volatile Organics - NJDEP-LLTO-15

CASE NARRATIVE

Client: URS Corporation

Project: POM/VI SAMPLING

Report Number: 200-16916-1

The samples in this sample set were analyzed by the EPA Compendium Method TO-15 for specific volatile organic constituents. Unless otherwise noted below, the analytical work followed the requirements outlined in the New Jersey DEP guidelines.

The practice of the laboratory is to analyze one canister from each batch of canisters that have been cleaned for re-use in order to certify the batch. The canisters that were used for this sampling event were from multiple batches. The certifying analyses were free of target analytes down to the concentration levels that are contractually required (nominally 0.2 PPBV). In order to provide for the lower level of detection required for canister certification, the laboratory analyzed a 500 milliliter volume. The laboratory's established practice for the analysis of field samples is based on the analysis of a 200 milliliter sample volume. Documentation of the analytical work supporting canister certification is included in the "Clean Can Certification" section of this submittal. Documentation of canister vacuum as delivered to, and received from, the field is included in the "Clean Can Certification" section of this submittal.

Manual integration was employed in deriving certain of the analytical results. The values that have been derived from manual integration are qualified on the quantitation reports, and extracted ion current profiles are included in the data package.

The following details the column type and trap design that were used in the performance of the analytical work for the sample in this sample set:

Chromatography Column - Restek RTX-624
Length - 60 meters
Inner Diameter - 0.32 millimeters
Film thickness - 1.8 micrometers
Trap Design - Entech Model 7100A (glass bead and Tenax with cryo-focusing)

A summary of the laboratory's current Method Detection Limits (MDLs) has been provided as part of this submittal, immediately following this transmittal letter.

RECEIPT

The samples were received on 06/07/2013; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS

Samples SG060613-SGP-01 and AA060613-SGP-01 were analyzed for Volatile Organic Compounds in accordance with NJDEP-LLTO-15. The samples were analyzed on 06/12/2013.

No difficulties were encountered during the VOCs analysis.

All quality control parameters were within the acceptance limits.

Project Name: NA
 Field ID Number: SG060613-SGP-01
 Laboratory ID Number: 200-16916-1

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Sampling Date: 06/06/2013 16:11
 Analysis Date: 06/12/2013 14:56

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	2.0	U	5			
1,1-Dichloroethene	75-35-4	96.94	2.0	U	8			
1,2-Dichloroethene, trans-	156-60-5	96.94	2.0	U	8			
1,1-Dichloroethane	75-34-3	98.96	2.0	U	8			
1,2-Dichloroethene, cis-	156-59-2	96.94	4.9		19			
1,1,1-Trichloroethane	71-55-6	133.41	3.9		21			
Carbon tetrachloride	56-23-5	153.81	2.0	U	13			
1,2-Dichloroethane	107-06-2	98.96	2.0	U	8			
Trichloroethene	79-01-6	131.39	45		240			
Tetrachloroethene	127-18-4	165.83	280		1900			

Project Name: NA
 Field ID Number: AA060613-SGP-01
 Laboratory ID Number: 200-16916-2

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Sampling Date: 06/06/2013 16:11
 Analysis Date: 06/12/2013 15:43

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	2.0	U	5			
1,1-Dichloroethene	75-35-4	96.94	2.0	U	8			
1,2-Dichloroethene, trans-	156-60-5	96.94	2.0	U	8			
1,1-Dichloroethane	75-34-3	98.96	2.0	U	8			
1,2-Dichloroethene, cis-	156-59-2	96.94	2.0	U	8			
1,1,1-Trichloroethane	71-55-6	133.41	2.0	U	11			
Carbon tetrachloride	56-23-5	153.81	2.0	U	13			
1,2-Dichloroethane	107-06-2	98.96	2.0	U	8			
Trichloroethene	79-01-6	131.39	2.0	U	11			
Tetrachloroethene	127-18-4	165.83	2.0	U	14			

Project Name: NA
 Field ID Number:
 Laboratory ID Number: MB 200-56985/3

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Analysis Date: 06/12/2013 11:00

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	0.20	U	0.5			
1,1-Dichloroethene	75-35-4	96.94	0.20	U	0.8			
1,2-Dichloroethene, trans-	156-60-5	96.94	0.20	U	0.8			
1,1-Dichloroethane	75-34-3	98.96	0.20	U	0.8			
1,2-Dichloroethene, cis-	156-59-2	96.94	0.20	U	0.8			
1,1,1-Trichloroethane	71-55-6	133.41	0.20	U	1			
Carbon tetrachloride	56-23-5	153.81	0.20	U	1			
1,2-Dichloroethane	107-06-2	98.96	0.20	U	0.8			
Trichloroethene	79-01-6	131.39	0.20	U	1			
Tetrachloroethene	127-18-4	165.83	0.20	U	1			

DATA REPORTING QUALIFIERS

Client: URS Corporation

Job Number: 200-16916-1

Sdg Number: 200-16916

Lab Section	Qualifier	Description
Air - GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD:	NJDEPLL TO15	MATRIX:	AIR	QA Review:	Kirstin Daigle	
PREP METHOD:	NA	Instrument(s):	B, C, G	Date Approved:	5/7/2012	
CLEANUP METHOD(s):	NA	DL	DL	LOQ	LOD/DL	LOQ/LOD
ANALYTE	CAS #	ppbv	Source ²	ppbv	REF	Ratio
1,1,1-Trichloroethane	71-55-6	0.020	40CFR	0.080	LOD3	4.0
1,1,2,2-Tetrachloroethane	79-34-5	0.011	40CFR	0.040	LOD2	3.7
1,1,2-Trichloroethane	79-00-5	0.016	40CFR	0.040	LOD2	2.6
1,1-Dichloroethane	75-34-3	0.023	40CFR	0.080	LOD3	3.5
1,1-Dichloroethene	75-35-4	0.086	40CFR	0.20	LOD4	2.3
1,2,4-Trichlorobenzene	120-82-1	0.030	40CFR	0.080	LOD3	2.7
1,2,4-Trimethylbenzene	95-63-6	0.021	40CFR	0.080	LOD3	3.9
1,2-Dibromoethane	106-93-4	0.014	40CFR	0.040	LOD2	2.8
1,2-Dichlorobenzene	95-50-1	0.026	40CFR	0.080	LOD3	3.1
1,2-Dichloroethane	107-06-2	0.018	40CFR	0.040	LOD2	2.2
1,2-Dichloropropane	78-87-5	0.023	40CFR	0.080	LOD3	3.4
1,2-Dichlorotetrafluoroethane	76-14-2	0.020	40CFR	0.080	LOD3	4.0
1,3,5-Trimethylbenzene	108-67-8	0.019	40CFR	0.040	LOD2	2.1
1,3-Butadiene	106-99-0	0.025	40CFR	0.080	LOD3	3.3
1,3-Dichlorobenzene	541-73-1	0.019	40CFR	0.040	LOD2	2.1
1,4-Dichlorobenzene	106-46-7	0.018	40CFR	0.040	LOD2	2.2
1,4-Dioxane	123-91-1	0.070	40CFR	0.20	LOD4	2.8
2,2,4-Trimethylpentane	540-84-1	0.015	40CFR	0.040	LOD2	2.8
2-Chlorotoluene	95-49-8	0.013	40CFR	0.040	LOD2	3.1
3-Chloropropene	107-05-1	0.047	40CFR	0.080	LOD3	1.7
4-Ethyltoluene	622-96-8	0.015	40CFR	0.040	LOD2	2.6
Acetone	67-64-1	0.40	LTB	0.50	LOD5	1.3
Benzene	71-43-2	0.018	40CFR	0.040	LOD2	2.2
Bromodichloromethane	75-27-4	0.012	40CFR	0.040	LOD2	3.4
Bromoethene(Vinyl Bromide)	593-60-2	0.019	40CFR	0.040	LOD2	2.1
Bromoform	75-25-2	0.0072	40CFR	0.028	LOD1	3.9
Bromomethane	74-83-9	0.027	40CFR	0.080	LOD3	3.0
Carbon disulfide	75-15-0	0.020	40CFR	0.080	LOD3	3.9
Carbon tetrachloride	56-23-5	0.013	40CFR	0.040	LOD2	3.0
Chlorobenzene	108-90-7	0.013	40CFR	0.040	LOD2	3.0
Chloroethane	75-00-3	0.033	40CFR	0.080	LOD3	2.4
Chloroform	67-66-3	0.024	40CFR	0.080	LOD3	3.4
Chloromethane	74-87-3	0.034	LTB	0.080	LOD3	2.4
cis-1,2-Dichloroethene	156-59-2	0.084	40CFR	0.20	LOD4	2.4
cis-1,3-Dichloropropene	10061-01-5	0.013	40CFR	0.040	LOD2	3.2
Cyclohexane	110-82-7	0.019	40CFR	0.040	LOD2	2.1
Dibromochloromethane	124-48-1	0.011	40CFR	0.040	LOD2	3.6

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD:	NJDEPLL TO15	MATRIX:	AIR	QA Review:	Kirstin Daigle			
PREP METHOD:	NA	Instrument(s):	B, C, G	Date Approved:	5/7/2012			
CLEANUP METHOD(s):	NA			TALS Entry:	5/7/2012			
ANALYTE	CAS #	DL ppbv	DL Source ²	LOD ppbv	LOD REF	LOQ ppbv	LOD/DL Ratio	LOQ/LOD Ratio
Dichlorodifluoromethane	75-71-8	0.020	40CFR	0.080	LOD3	0.50	3.9	6.3
Ethylbenzene	100-41-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Freon TF	76-13-1	0.020	40CFR	0.080	LOD3	0.20	3.9	2.5
Hexachlorobutadiene	87-68-3	0.029	40CFR	0.080	LOD3	0.20	2.8	2.5
Isopropyl alcohol	67-63-0	0.076	40CFR	0.20	LOD4	5.0	2.6	25.0
m,p-Xylene	179601-23-1	0.022	40CFR	0.040	LOD2	0.50	1.8	12.5
Methyl Ethyl Ketone	78-93-3	0.025	40CFR	0.080	LOD3	0.50	3.2	6.3
Methyl isobutyl ketone	108-10-1	0.034	40CFR	0.080	LOD3	0.50	2.4	6.3
Methyl methacrylate	80-62-6	0.016	40CFR	0.040	LOD2	0.50	2.5	12.5
Methyl tert-butyl ether	1634-04-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Methylene Chloride	75-09-2	0.023	40CFR	0.080	LOD3	0.50	3.5	6.3
n-Heptane	142-82-5	0.017	40CFR	0.040	LOD2	0.20	2.4	5.0
n-Hexane	110-54-3	0.020	40CFR	0.080	LOD3	0.20	3.9	2.5
Styrene	100-42-5	0.011	40CFR	0.040	LOD2	0.20	3.6	5.0
tert-Butyl alcohol	75-65-0	0.041	40CFR	0.080	LOD3	5.0	2.0	62.4
Tetrachloroethene	127-18-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Tetrahydrofuran	109-99-9	0.029	40CFR	0.080	LOD3	5.0	2.7	62.4
Toluene	108-88-3	0.014	40CFR	0.040	LOD2	0.20	2.8	5.0
trans-1,2-Dichloroethene	156-60-5	0.023	40CFR	0.080	LOD3	0.20	3.5	2.5
trans-1,3-Dichloropropene	10061-02-6	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Trichloroethene	79-01-6	0.0092	40CFR	0.028	LOD1	0.20	3.1	7.1
Trichlorofluoromethane	75-69-4	0.021	40CFR	0.080	LOD3	0.20	3.9	2.5
Vinyl chloride	75-01-4	0.0091	40CFR	0.028	LOD1	0.20	3.1	7.1
Xylene, o-	95-47-6	0.016	40CFR	0.040	LOD2	0.20	2.4	5.0

¹: Summary Analyte. The DL, LOD and LOQ are set to the value equal to the lowest DL, LOD and LOQ of the component analytes.

²: 40CFR = DL is taken from 40CFR MDL Study. LTB = DL calculated from Long Term Evaluation of Method Blanks

Detection Limit (DL) Study Report

TEST METHOD: NJDEPLL TO15		Prep Date: 01/26/12	
PREP METHOD: NA		Initial Amount: 200 mL	
CLEANUP METHOD(s): NA		Final Amount: 200 mL	
MATRIX: AIR			
ANALYTE	Date Analyzed:	01/26/12	01/26/12
	Instrument ID:	C	C
	Column Type:	RTX-624	RTX-624
	Spike	REP 1	REP 2
	CAS #	ppbv	ppbv
Carbon tetrachloride	56-23-5	0.031694	0.034823
Trichloroethene	79-01-6	0.036466	0.040282
Vinyl chloride	75-01-4	0.033302	0.039936
		0.042118	0.042118
		0.044945	0.044945
		0.036295	0.036295
		0.042137	0.042137
		0.04253	0.04253
		0.037944	0.037944
		0.038812	0.038812
		0.04377	0.04377
		0.042247	0.042247
	Mean	ppbv	ppbv
	Average	%R	%R
	STD	DEV	DEV
	DL	ppbv	ppbv
	Spike/ DL	Ratio	Ratio
		0.039	0.039
		97%	97%
		0.00422	0.00422
		0.013	0.013
		0.00292	0.00292
		0.0091	0.0091
		0.042	0.042
		105%	105%
		0.00291	0.00291
		0.038	0.038
		96%	96%
		0.0091	0.0091
		0.04333	0.04333
		0.04377	0.04377
		0.041193	0.041193
		REP 7	REP 7
		ppbv	ppbv
		RTX-624	RTX-624
		C	C
		01/26/12	01/26/12

Detection Limit (DL) Study Report

TEST METHOD:		NJDELL TO15		Prep Date:		01/16/12							
PREP METHOD:		NA		Initial Amount:		200 mL							
CLEANUP METHOD(S):		NA		Final Amount:		200 mL							
MATRIX:		AIR											
ANALYTE	CAS #	Spike ppbv	Date Analyzed:		01/16/12		01/16/12		Mean ppbv	Average %R	STD DEV	DL ppbv	Spike/DL Ratio
			Instrument ID:	Column Type:	C	C	C	C					
			REP 1	REP 2	REP 3	REP 4	REP 5	REP 6	REP 7				
Bromoform	75-25-2	0.050	0.045891	0.041705	0.040813	0.045382	0.043964	0.039841	0.042451	0.043	0.00229	0.0072	6.9
Bromomethane	74-83-9	0.10	0.130761	0.125472	0.136931	0.139073	0.112846	0.128623	0.126832	0.129	0.00861	0.027	3.7
Carbon disulfide	75-15-0	0.050	0.075073	0.058149	0.057821	0.069229	0.067015	0.059374	0.062664	0.064	0.00651	0.020	2.4
Chlorobenzene	108-90-7	0.10	0.102284	0.103269	0.112214	0.11103	0.102188	0.108552	0.103462	0.106	0.00420	0.013	7.6
Chloroethane	75-00-3	0.10	0.122704	0.112536	0.123091	0.135228	0.100856	0.120214	0.120826	0.119	0.01056	0.033	3.0
Chloroform	67-66-3	0.10	0.113871	0.109272	0.121736	0.117094	0.099934	0.119677	0.10854	0.113	0.00756	0.024	4.2
Chloromethane	74-87-3	0.050	0.127751	0.106998	0.116366	0.118031	0.09826	0.119097	0.109065	0.114	0.00964	0.030	1.6
cis-1,2-Dichloroethene	156-59-2	0.10	0.112903	0.087185	0.15046	0.113794	0.081309	0.137783	0.0884	0.110	0.02659	0.084	1.2
cis-1,3-Dichloropropene	10061-01-5	0.10	0.106437	0.106466	0.110124	0.109975	0.09883	0.109418	0.104207	0.106	0.00404	0.013	7.9
Cumene	98-82-8	0.10	0.085224	0.088124	0.091429	0.08698	0.083612	0.090868	0.081757	0.087	0.00360	0.011	8.8
Cyclohexane	110-82-7	0.10	0.102476	0.092597	0.104788	0.109388	0.098017	0.11024	0.103469	0.103	0.00619	0.019	5.1
Dibromochloromethane	124-48-1	0.10	0.085564	0.087052	0.09343	0.091867	0.084292	0.085365	0.085664	0.088	0.00357	0.011	8.9
Dibromomethane	74-95-3	0.10	0.104595	0.107389	0.109047	0.107532	0.096097	0.107164	0.098533	0.104	0.00502	0.016	6.3
Dichlorodifluoromethane	75-71-8	0.10	0.125414	0.126865	0.127053	0.134674	0.122344	0.120975	0.113685	0.124	0.00646	0.020	4.9
Ethanol	64-17-5	1.00	0.969299	1.020308	1.070641	1.039724	0.956727	1.006232	0.900894	0.995	0.05696	0.179	5.6
Ethyl acetate	141-78-6	0.50	0.429368	0.472311	0.454595	0.456607	0.447219	0.465664	0.495475	0.460	0.02075	0.065	7.6
Ethyl ether	60-29-7	0.10	0.093526	0.100116	0.106814	0.099036	0.08939	0.102939	0.094416	0.098	0.00598	0.019	5.3
Ethylbenzene	100-41-4	0.10	0.090417	0.092208	0.095145	0.097014	0.083311	0.096034	0.092317	0.092	0.00463	0.015	6.9
Freon 22	75-45-6	0.10	0.150983	0.139723	0.141181	0.142633	0.132819	0.13492	0.128858	0.139	0.00729	0.023	4.4
Freon TF	76-13-1	0.10	0.107548	0.105615	0.113483	0.116446	0.096401	0.111776	0.108877	0.109	0.00651	0.020	4.9
Hexachlorobutadiene	87-68-3	0.10	0.097644	0.071429	0.074537	0.0913	0.087521	0.085486	0.080987	0.084	0.00922	0.029	3.4
Isopentane	78-78-4	0.10	0.127579	0.187384	0.169759	0.17624	0.141859	0.159417	0.154617	0.160	0.02048	0.064	1.6
Isopropyl alcohol	67-63-0	0.50	0.572061	0.521524	0.50583	0.515674	0.541903	0.502692	0.535203	0.528	0.02419	0.076	6.6
m,p-Xylene	179601-23-1	0.20	0.162862	0.171383	0.181162	0.17433	0.166483	0.180529	0.169046	0.172	0.00689	0.022	9.2
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.50	0.483758	0.451819	0.477876	0.469687	0.482335	0.470408	0.454572	0.470	0.01273	0.040	12.5
Methyl Ethyl Ketone	78-93-3	0.10	0.078894	0.082858	0.089406	0.078321	0.076614	0.08675	0.065473	0.080	0.00783	0.025	4.1
Methyl isobutyl ketone	108-10-1	0.50	0.487199	0.487166	0.491268	0.497069	0.489725	0.508268	0.47318	0.491	0.01066	0.034	14.9
Methyl methacrylate	80-62-6	0.10	0.062633	0.069693	0.075979	0.077813	0.072156	0.072629	0.068253	0.071	0.00506	0.016	6.3
Methyl tert-butyl ether	1634-04-4	0.10	0.096	0.106222	0.105087	0.101422	0.094621	0.101694	0.095566	0.100	0.00473	0.015	6.7
Methylene Chloride	75-09-2	0.10	0.186679	0.180651	0.190941	0.19634	0.17427	0.184107	0.182069	0.185	0.00719	0.023	4.4
Naphthalene	91-20-3	0.10	0.095391	0.069495	0.067525	0.070833	0.078978	0.094064	0.069779	0.078	0.01199	0.038	2.6
n-Butane	106-97-8	0.050	0.09185	0.074788	0.074602	0.085903	0.077214	0.072987	0.081057	0.080	0.00694	0.022	2.3
n-Butanol	71-36-3	0.50	0.60719	0.668807	0.573518	0.531713	0.568194	0.634713	0.604817	0.598	0.04541	0.143	3.5

Detection Limit (DL) Study Report

TEST METHOD:		NJDELL TO15		Prep Date:		01/16/12						
PREP METHOD:		NA		Initial Amount:		200 mL						
CLEANUP METHOD(s):		NA		Final Amount:		200 mL						
MATRIX:		AIR										
ANALYTE	CAS #	Date Analyzed:	Spike ppbv	01/16/12		01/16/12		Mean ppbv	Average %R	STD DEV	DL ppbv	Spike/DL Ratio
				Instrument ID:	C	C	C					
		Column Type:	REP 1 ppbv	REP 2 ppbv	REP 3 ppbv	REP 4 ppbv	REP 5 ppbv	REP 6 ppbv	REP 7 ppbv			
n-Butylbenzene	104-51-8		0.050	0.048137	0.028586	0.029114	0.03042	0.035355	0.031059	0.00696	0.022	2.3
n-Decane	124-18-5		0.050	0.036546	0.022044	0.020162	0.023891	0.026808	0.0212	0.00557	0.018	2.9
n-Dodecane	112-40-3		0.50	0.627098	0.480578	0.473868	0.474722	0.571975	0.497409	0.06078	0.191	2.6
n-Heptane	142-82-5		0.10	0.09942	0.10363	0.111768	0.109175	0.097895	0.10716	0.00531	0.017	6.0
n-Hexane	110-54-3		0.050	0.073875	0.05334	0.057888	0.064359	0.063601	0.065062	0.00645	0.020	2.5
n-Nonane	111-84-2		0.050	0.050916	0.041586	0.043278	0.04702	0.043524	0.044423	0.00307	0.010	5.2
n-Octane	111-65-9		0.10	0.102898	0.102016	0.109872	0.10588	0.0989	0.108147	0.00412	0.013	7.7
n-Pentane	109-66-0		0.10	0.113422	0.112879	0.122504	0.124181	0.10199	0.119221	0.00744	0.023	4.3
n-Propylbenzene	103-65-1		0.050	0.045237	0.034802	0.031889	0.037885	0.039789	0.036715	0.00423	0.013	3.8
n-Undecane	1120-21-4		0.50	0.264815	0.245186	0.235354	0.243748	0.260431	0.244349	0.01085	0.034	14.6
Propylene	115-07-1		0.50	0.60298	0.617479	0.605271	0.627917	0.623967	0.691435	0.02988	0.094	5.3
sec-Butylbenzene	135-98-8		0.10	0.073975	0.076789	0.078233	0.081733	0.076792	0.073771	0.00468	0.015	6.8
Styrene	100-42-5		0.050	0.044637	0.038055	0.034198	0.04162	0.03885	0.036069	0.00349	0.011	4.6
tert-Butyl alcohol	75-65-0		0.50	0.508232	0.496266	0.480641	0.489734	0.509943	0.513052	0.01296	0.041	12.3
tert-Butylbenzene	98-06-6		0.050	0.0437	0.035827	0.032872	0.039288	0.040358	0.036458	0.00350	0.011	4.5
Tetrachloroethene	127-18-4		0.10	0.102889	0.103282	0.109897	0.111806	0.098738	0.10689	0.00473	0.015	6.7
Tetrahydrofuran	109-99-9		0.50	0.526214	0.508039	0.517002	0.536047	0.522949	0.51868	0.00937	0.029	16.9
Toluene	108-88-3		0.10	0.101053	0.100661	0.106148	0.108643	0.097266	0.104239	0.00449	0.014	7.1
trans-1,2-Dichloroethene	156-60-5		0.10	0.107583	0.103375	0.113143	0.112858	0.092156	0.108578	0.00722	0.023	4.4
trans-1,3-Dichloropropene	10061-02-6		0.10	0.095167	0.098962	0.106149	0.106491	0.095199	0.102061	0.00475	0.015	6.7
Trichlorofluoromethane	75-69-4		0.050	0.077581	0.059176	0.059963	0.071561	0.065175	0.064871	0.00653	0.021	2.4
Vinyl acetate	108-05-4		0.50	0.494487	0.509174	0.494689	0.500711	0.516169	0.498506	0.00806	0.025	19.7
Xylene, o-	95-47-6		0.10	0.087382	0.088147	0.097469	0.093614	0.086955	0.081519	0.00520	0.016	6.1

Limit of Detection (LOD) Verification Report

TEST METHOD:		NJDEPLLO15		Prep Date:	1/31/2012, 02/06/12		Instrument(s):					
PREP METHOD:		NA		Initial Amount:	200 mL		B			C		
CLEANUP METHOD(s):		NA		Final Amount:	200 mL		RTX-624			RTX-624		
MATRIX:		AIR		LOD Ref:	1							
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
Bromoform	75-25-2	0.0072	0.0072	0.028	3.9	Y	0.0236358	01/31/12	0.0269937	02/06/12	0.0310274	01/31/12
Trichloroethene	79-01-6	0.0092	0.0092	0.028	3.1	Y	0.0369347	01/31/12	0.0357282	02/06/12	0.0370572	01/31/12
Vinyl chloride	75-01-4	0.0091	0.0091	0.028	3.1	Y	0.0382497	01/31/12	0.0271757	02/06/12	0.0427657	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLO15		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
	PREP METHOD:	NA	Initial Amount:	200 mL	B			C			G	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624			RTX-624			RTX-624		
MATRIX:	AIR	LOD Ref:	2									
ANALYTE	CAS #	ppbv	ppbv	Spike	Spike/DL	Pass	Result	Date	Result	Date	Result	Date
				ppbv	Ratio	Y/N	ppbv	Analyzed	ppbv	Analyzed	ppbv	Analyzed
1,1,2,2-tetrachloroethane	79-34-5	0.011	0.040	0.040	3.6	Y	0.0439484	01/30/12	0.0367094	01/30/12	0.0368553	01/31/12
1,1,2-Trichloroethane	79-00-5	0.016	0.040	0.040	2.5	Y	0.04085	01/30/12	0.0383681	01/30/12	0.0375874	01/31/12
1,2-Dibromoethane	106-93-4	0.014	0.040	0.040	2.9	Y	0.0382115	01/30/12	0.0373325	01/30/12	0.0413789	01/31/12
1,2-Dichloroethane	107-06-2	0.018	0.040	0.040	2.2	Y	0.043269	01/30/12	0.044657	01/30/12	0.0427347	01/31/12
1,3,5-Trimethylbenzene	108-67-8	0.019	0.040	0.040	2.1	Y	0.0448217	01/30/12	0.0356625	01/30/12	0.0229489	01/31/12
1,3-Dichlorobenzene	541-73-1	0.019	0.040	0.040	2.1	Y	0.0440867	01/30/12	0.0375736	01/30/12	0.0483551	01/31/12
1,4-Dichlorobenzene	106-46-7	0.018	0.040	0.040	2.2	Y	0.0467479	01/30/12	0.0378337	01/30/12	0.0332018	01/31/12
2,2,4-Trimethylpentane	540-84-1	0.015	0.040	0.040	2.7	Y	0.0458012	01/30/12	0.0432881	01/30/12	0.0413784	01/31/12
2-Chlorotoluene	95-49-8	0.013	0.040	0.040	3.1	Y	0.0477588	01/30/12	0.0398619	01/30/12	0.0273756	01/31/12
4-Ethyltoluene	622-96-8	0.015	0.040	0.040	2.7	Y	0.0413871	01/30/12	0.03224089	01/30/12	0.0183816	01/31/12
Alpha Methyl Styrene	98-83-9	0.018	0.040	0.040	2.2	Y	0.0283359	01/30/12	0.0241925	01/30/12	0.0361873	01/31/12
Benzene	71-43-2	0.018	0.040	0.040	2.2	Y	0.0566347	01/30/12	0.0538394	01/30/12	0.0488064	01/31/12
Bromodichloromethane	75-27-4	0.012	0.040	0.040	3.3	Y	0.0416361	01/30/12	0.0401186	01/30/12	0.0400368	01/31/12
Bromoethene(Vinyl Bromide)	593-60-2	0.019	0.040	0.040	2.1	Y	0.0477646	01/30/12	0.0390748	01/30/12	0.0509984	01/31/12
Carbon tetrachloride	56-23-5	0.019	0.040	0.040	2.1	Y	0.0450564	01/30/12	0.0453807	01/30/12	0.0445167	01/31/12
Chlorobenzene	108-90-7	0.013	0.040	0.040	3.1	Y	0.0509605	01/30/12	0.0454508	01/30/12	0.0435362	01/31/12
cis-1,3-Dichloropropene	10061-01-5	0.013	0.040	0.040	3.1	Y	0.0409175	01/30/12	0.0482381	01/30/12	0.048195	01/31/12
Cumene	98-82-8	0.011	0.040	0.040	3.6	Y	0.0423284	01/30/12	0.0378653	01/30/12	0.0334343	01/31/12
Cyclohexane	110-82-7	0.013	0.040	0.040	3.1	Y	0.0501248	01/30/12	0.0390593	01/30/12	0.0475519	01/31/12
Dibromochloromethane	124-48-1	0.011	0.040	0.040	3.6	Y	0.0355362	01/30/12	0.0354374	01/30/12	0.0358777	01/31/12
Dibromomethane	74-95-3	0.016	0.040	0.040	2.5	Y	0.0458574	01/30/12	0.0384973	01/30/12	0.0533226	01/31/12
Ethyl ether	60-29-7	0.019	0.040	0.040	2.1	Y	0.0360172	01/30/12	0.0208922	01/30/12	0.0468287	01/31/12
Ethylbenzene	100-41-4	0.015	0.040	0.040	2.7	Y	0.0470157	01/30/12	0.0410152	01/30/12	0.031831	01/31/12
m,p-Xylene	179601-23-1	0.022	0.080	0.080	3.7	Y	0.0866301	01/30/12	0.0737886	01/30/12	0.0660686	01/31/12
Methyl methacrylate	80-62-6	0.016	0.040	0.040	2.5	Y	0.0206074	01/30/12	0.0208438	01/30/12	0.0234625	01/31/12
Methyl tert-butyl ether	1634-04-4	0.015	0.040	0.040	2.7	Y	0.0444376	01/30/12	0.0448008	01/30/12	0.0421109	01/31/12
n-Decane	124-18-5	0.010	0.040	0.040	4.0	Y	0.0452386	01/30/12	0.0212837	01/30/12	0.0306513	01/31/12
n-Heptane	142-82-5	0.017	0.040	0.040	2.4	Y	0.0479421	01/30/12	0.0424606	01/30/12	0.0476082	01/31/12
n-Nonane	111-84-2	0.010	0.040	0.040	4.0	Y	0.0450012	01/30/12	0.035101	01/30/12	0.0350987	01/31/12
n-Octane	111-65-9	0.013	0.040	0.040	3.1	Y	0.0462756	01/30/12	0.0443126	01/30/12	0.0605262	01/31/12
n-Propylbenzene	103-65-1	0.013	0.040	0.040	3.1	Y	0.0471636	01/30/12	0.0289208	01/30/12	0.0273027	01/31/12
sec-Butylbenzene	135-98-8	0.015	0.040	0.040	2.7	Y	0.044853	01/30/12	0.0347986	01/30/12	0.0245313	01/31/12
Styrene	100-42-5	0.011	0.040	0.040	3.6	Y	0.0313848	01/30/12	0.0323169	01/30/12	0.0333362	01/31/12
tert-Butylbenzene	98-06-6	0.011	0.040	0.040	3.6	Y	0.043188	01/30/12	0.0312036	01/30/12	0.0288258	01/31/12
Tetrachloroethene	127-18-4	0.015	0.040	0.040	2.7	Y	0.0432741	01/30/12	0.041753	01/30/12	0.0617601	01/31/12
Toluene	108-88-3	0.014	0.040	0.040	2.9	Y	0.0469235	01/30/12	0.0421189	01/30/12	0.0477686	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLO15		Prep Date:	01/30/12, 01/31/12		Instrument(s):					
PREP METHOD:	NA		Initial Amount:	200 mL		B		C		G	
CLEANUP METHOD(s):	NA		Final Amount:	200 mL		RTX-624		RTX-624		RTX-624	
MATRIX:	AIR		LOD Ref:	2							
ANALYTE	CAS #	ppbv	Spike	Spike/DL	Pass	Result	Date	Result	Date	Result	Date
trans-1,3-Dichloropropene	10061-02-6	0.015	0.040	Ratio	Y/N	ppbv	Analyzed	ppbv	Analyzed	ppbv	Analyzed
Xylene, o-	95-47-6	0.016	0.040	2.7	Y	0.0354448	01/30/12	0.0450151	01/30/12	0.040721	01/31/12
				2.5	Y	0.0416562	01/30/12	0.0359343	01/30/12	0.0382714	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLT015		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
	PREP METHOD:	NA	Initial Amount:	200 mL	B			C			G	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624			RTX-624			RTX-624		
MATRIX:	AIR	LOD Ref:	3									
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
1,1,1-Trichloroethane	71-55-6	0.020	0.080	0.080	4.0	Y	0.0847092	01/30/12	0.085857	01/30/12	0.1010164	01/31/12
1,1-Dichloroethane	75-34-3	0.023	0.080	0.080	3.5	Y	0.0931831	01/30/12	0.0857771	01/30/12	0.0986975	01/31/12
1,2,3-Trichlorobenzene	87-61-6	0.041	0.080	0.080	2.0	Y	0.0539692	01/30/12	0.0771812	01/30/12	0.0473325	01/31/12
1,2,3-Trichloropropane	96-18-4	0.025	0.080	0.080	3.2	Y	0.0977633	01/30/12	0.0754392	01/30/12	0.0944615	01/31/12
1,2,4-Trichlorobenzene	120-82-1	0.030	0.080	0.080	2.7	Y	0.0566003	01/30/12	0.0789511	01/30/12	0.0435911	01/31/12
1,2,4-Trimethylbenzene	95-63-6	0.021	0.080	0.080	3.8	Y	0.0829333	01/30/12	0.0685175	01/30/12	0.0631691	01/31/12
1,2-Dichlorobenzene	95-50-1	0.026	0.080	0.080	3.1	Y	0.085858	01/30/12	0.0752173	01/30/12	0.0806144	01/31/12
1,2-Dichloropropane	78-87-5	0.023	0.080	0.080	3.5	Y	0.0891035	01/30/12	0.0819475	01/30/12	0.0842903	01/31/12
1,2-Dichlorotetrafluoroethane	76-14-2	0.020	0.080	0.080	4.0	Y	0.0942239	01/30/12	0.0950581	01/30/12	0.0974105	01/31/12
1,3-Butadiene	106-99-0	0.025	0.080	0.080	3.2	Y	0.0955856	01/30/12	0.088752	01/30/12	0.084439	01/31/12
3-Chloropropene	107-05-1	0.047	0.080	0.080	1.7	Y	0.0993075	01/30/12	0.091879	01/30/12	0.1066344	01/31/12
4-Isopropyltoluene	99-87-6	0.020	0.080	0.080	4.0	Y	0.0788073	01/30/12	0.0615909	01/30/12	0.0668848	01/31/12
Acrylonitrile	107-13-1	0.023	0.080	0.080	3.5	Y	0.0697887	01/30/12	0.0685497	01/30/12	0.0882696	01/31/12
Benzyl chloride	100-44-7	0.022	0.080	0.080	3.6	Y	0.0765995	01/30/12	0.0641082	01/30/12	0.0700765	01/31/12
Bromomethane	74-83-9	0.027	0.080	0.080	3.0	Y	0.0930672	01/30/12	0.1028085	01/30/12	0.0944654	01/31/12
Carbon disulfide	75-15-0	0.020	0.080	0.080	4.0	Y	0.0905713	01/30/12	0.0853358	01/30/12	0.0909487	01/31/12
Chloroethane	75-00-3	0.033	0.080	0.080	2.4	Y	0.0917268	01/30/12	0.089895	01/30/12	0.1090466	01/31/12
Chloroform	67-66-3	0.024	0.080	0.080	3.3	Y	0.0919575	01/30/12	0.0870513	01/30/12	0.0988419	01/31/12
Chloromethane	74-87-3	0.034	0.080	0.080	2.4	Y	0.1161505	01/30/12	0.1338395	01/30/12	0.1092541	01/31/12
Dichlorodifluoromethane	75-71-8	0.020	0.080	0.080	4.0	Y	0.0970985	01/30/12	0.0993256	01/30/12	0.1069844	01/31/12
Freon 22	75-45-6	0.023	0.080	0.080	3.5	Y	0.1103272	01/30/12	0.1130052	01/30/12	0.1133509	01/31/12
Freon TF	76-13-1	0.020	0.080	0.080	4.0	Y	0.0864918	01/30/12	0.0909698	01/30/12	0.0951117	01/31/12
Hexachlorobutadiene	87-68-3	0.029	0.080	0.080	2.8	Y	0.088581	01/30/12	0.0782484	01/30/12	0.1003174	01/31/12
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.040	0.080	0.080	2.0	Y	0.0498435	01/30/12	0.0577654	01/30/12	0.0609178	01/31/12
Methyl Ethyl Ketone	78-93-3	0.025	0.080	0.080	3.2	Y	0.0872113	01/30/12	0.0687485	01/30/12	0.1159597	01/31/12
Methyl isobutyl ketone	108-10-1	0.034	0.080	0.080	2.4	Y	0.0662186	01/30/12	0.0665661	01/30/12	0.0747982	01/31/12
Methylene Chloride	75-09-2	0.023	0.080	0.080	3.5	Y	0.151845	01/30/12	0.1578643	01/30/12	0.129091	01/31/12
Naphthalene	91-20-3	0.038	0.080	0.080	2.1	Y	0.0384757	01/30/12	0.0722274	01/30/12	0.024552	01/31/12
n-Butane	106-97-8	0.022	0.080	0.080	3.6	Y	0.100763	01/30/12	0.0958848	01/30/12	0.1046282	01/31/12
n-Butylbenzene	104-51-8	0.022	0.080	0.080	3.6	Y	0.0837784	01/30/12	0.0570576	01/30/12	0.0580806	01/31/12
n-Hexane	110-54-3	0.020	0.080	0.080	4.0	Y	0.0873752	01/30/12	0.0821212	01/30/12	0.08679	01/31/12
n-Pentane	109-66-0	0.023	0.080	0.080	3.5	Y	0.1048033	01/30/12	0.0910497	01/30/12	0.0965429	01/31/12
n-Undecane	1120-21-4	0.034	0.080	0.080	2.4	Y	0.1022867	01/30/12	0.0466734	01/30/12	0.0571363	01/31/12
tert-Butyl alcohol	75-65-0	0.041	0.080	0.080	2.0	Y	0.0774393	01/30/12	0.0757495	01/30/12	0.0971297	01/31/12
Tetrahydrofuran	109-99-9	0.029	0.080	0.080	2.8	Y	0.0860254	01/30/12	0.0813159	01/30/12	0.0882096	01/31/12
trans-1,2-Dichloroethene	156-60-5	0.023	0.080	0.080	3.5	Y	0.0847762	01/30/12	0.0794756	01/30/12	0.0924157	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLT015	Prep Date:	01/30/12, 01/31/12	Instrument(s):			
PREP METHOD:	NA	Initial Amount:	200 mL	B		C	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624		RTX-624	
MATRIX:	AIR	LOD Ref:	3				
ANALYTE	CAS #	ppbv	Spike	Spike/DL	Pass	Result	Date
		ppbv	ppbv	Ratio	Y/N	ppbv	Analyzed
Trichlorofluoromethane	75-69-4	0.021	0.080	3.8	Y	0.089964	01/30/12
Vinyl acetate	108-05-4	0.025	0.080	3.2	Y	0.0670452	01/30/12
						0.094083	01/30/12
						0.0689756	01/30/12
						0.1038024	01/31/12
						0.08645	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:		NJDEPLLT015		Prep Date:		01/30/12, 01/31/12		Instrument(s):			
PREP METHOD:		NA		Initial Amount:		200 mL		B		C	
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624		RTX-624	
MATRIX:		AIR		LOD Ref:		4					
ANALYTE	CAS #	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
1,1-Dichloroethene	75-35-4	0.086	0.20	2.3	Y	0.21544	01/30/12	0.2414822	01/30/12	0.1941059	01/31/12
1,4-Dioxane	123-91-1	0.070	0.20	2.9	Y	0.1538093	01/30/12	0.1757113	01/30/12	0.1706352	01/31/12
Acetonitrile	75-05-8	0.082	0.20	2.4	Y	0.2620567	01/30/12	0.4688481	01/30/12	0.2682369	01/31/12
Acrolein	107-02-8	0.067	0.20	3.0	Y	0.2478182	01/30/12	0.2085343	01/30/12	0.2568267	01/31/12
cis-1,2-Dichloroethene	156-59-2	0.084	0.20	2.4	Y	0.2065816	01/30/12	0.2304565	01/30/12	0.217851	01/31/12
Ethanol	64-17-5	0.18	0.40	2.2	Y	0.6113607	01/30/12	0.4718399	01/30/12	0.5560324	01/31/12
Ethyl acetate	141-78-6	0.065	0.20	3.1	Y	0.0826342	01/30/12	0.0257973	01/30/12	0.2569577	01/31/12
Isopentane	78-78-4	0.064	0.20	3.1	Y	0.2421419	01/30/12	0.2361926	01/30/12	0.2148304	01/31/12
Isopropyl alcohol	67-63-0	0.076	0.20	2.6	Y	0.1918079	01/30/12	0.1819499	01/30/12	0.2239464	01/31/12
n-Butanol	71-36-3	0.14	0.20	1.4	Y	0.1789814	01/30/12	0.2396682	01/30/12	0.2954564	01/31/12
n-Dodecane	112-40-3	0.19	0.20	1.0	Y	0.1615149	01/30/12	0.2051198	01/30/12	0.1318974	01/31/12
Propylene	115-07-1	0.094	0.20	2.1	Y	0.271858	01/30/12	0.3481022	01/30/12	0.2677293	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLO15	Prep Date:	01/30/12, 01/31/12	Instrument(s):			
PREP METHOD:	NA	Initial Amount:	200 mL	B		C	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624		RTX-624	
MATRIX:	AIR	LOD Ref:	4				
ANALYTE	CAS #	ppbv	Spike	Spike/DL	Pass	Result	Date
Acetone	67-64-1	0.40	ppbv	Ratio	Y/N	ppbv	Analyzed
			0.50	1.3	Y	0.8803931	01/30/12
						0.9494763	01/31/12

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		NJDEPLLT015		Prep Date:		01/30/12, 01/31/12, 02/		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		B		C		G	
CLEANUP METHOD(S):		NA		Final Amount:		200 mL		RTX-624		RTX-624		RTX-624	
MATRIX:		AIR		CSV Ref:		LOQ		01/30/12, 01/31/12		01/30/12, 02/09/12, 02/28/12		01/31/12	
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Ratio	Pass	Spike / LOQ Ratio	Result ppbv	%R	Result ppbv	%R	Result ppbv	%R
1,1,1-Trichloroethane	71-55-6	0.20	0.20	0.20	1.0	Y	1.0	0.2413639	107	0.20413639	102	0.2478879	124
1,1,2,2-Tetrachloroethane	79-34-5	0.20	0.20	0.20	1.0	Y	1.0	0.2190932	110	0.198034594	99	0.1973121	99
1,1,2-Trichloroethane	79-00-5	0.20	0.20	0.20	1.0	Y	1.0	0.2067923	103	0.198735441	99	0.2353734	118
1,1-Dichloroethane	75-34-3	0.20	0.20	0.20	1.0	Y	1.0	0.2315938	116	0.195251478	98	0.2178936	109
1,1-Dichloroethene	75-35-4	0.20	0.20	0.20	1.0	Y	1.0	0.2156916	108	0.236801737	118	0.2295669	115
1,2,3-Trichlorobenzene	87-61-6	0.20	0.20	0.20	1.0	Y	1.0	0.124589	62	0.175465772	88	0.1194694	60
1,2,3-Trichloropropane	96-18-4	0.50	0.50	0.50	1.0	Y	1.0	0.5973531	119	0.49043631	98	0.5194116	104
1,2,4-Trichlorobenzene	120-82-1	0.50	0.50	0.50	1.0	Y	1.0	0.3865497	77	0.443693854	89	0.3481276	70
1,2,4-Trimethylbenzene	95-63-6	0.20	0.20	0.20	1.0	Y	1.0	0.1980249	99	0.184375444	92	0.1835486	92
1,2-Dibromoethane	106-93-4	0.20	0.20	0.20	1.0	Y	1.0	0.1826634	91	0.181906254	91	0.2259952	113
1,2-Dichlorobenzene	95-50-1	0.20	0.20	0.20	1.0	Y	1.0	0.1917522	96	0.195517514	98	0.2038696	102
1,2-Dichloroethane	107-06-2	0.20	0.20	0.20	1.0	Y	1.0	0.2202224	110	0.20169939	101	0.2573214	129
1,2-Dichloropropane	78-87-5	0.20	0.20	0.20	1.0	Y	1.0	0.2269977	113	0.19984162	100	0.1994906	100
1,2-Dichlorotetrafluoroethane	76-14-2	0.20	0.20	0.20	1.0	Y	1.0	0.2558942	128	0.226962474	113	0.2166011	108
1,3,5-Trimethylbenzene	108-67-8	0.20	0.20	0.20	1.0	Y	1.0	0.2052589	103	0.182155396	91	0.1949404	97
1,3-Butadiene	106-99-0	0.20	0.20	0.20	1.0	Y	1.0	0.240449	120	0.212136957	106	0.207543	104
1,3-Dichlorobenzene	541-73-1	0.20	0.20	0.20	1.0	Y	1.0	0.1904339	95	0.189661204	95	0.2039491	102
1,4-Dichlorobenzene	106-46-7	0.20	0.20	0.20	1.0	Y	1.0	0.1811234	91	0.187857839	94	0.1899928	95
1,4-Dioxane	123-91-1	5.0	5.0	5.0	1.0	Y	1.0	5.214428	104	4.519464281	91	5.2969506	106
2,2,4-Trimethylpentane	540-84-1	0.20	0.20	0.20	1.0	Y	1.0	0.2269492	113	0.18981289	95	0.2068431	103
2-Chlorotoluene	95-49-8	0.20	0.20	0.20	1.0	Y	1.0	0.215235	108	0.186098239	93	0.2324965	116
3-Chloropropene	107-05-1	0.20	0.20	0.20	1.0	Y	1.0	0.2505149	125	0.206991005	103	0.2258961	113
4-Ethyltoluene	622-96-8	0.20	0.20	0.20	1.0	Y	1.0	0.2007357	100	0.168665588	84	0.1977668	99
4-Isopropyltoluene	99-87-6	0.20	0.20	0.20	1.0	Y	1.0	0.190941	95	0.174423806	87	0.1910409	96
Acetone	67-64-1	5.0	5.0	5.0	1.0	Y	1.0	6.8730918	138	4.868555067	98	6.127913	123
Acetonitrile	75-05-8	5.0	5.0	5.0	1.0	Y	1.0	6.3148979	127	5.280957546	106	5.0024665	100
Acrolein	107-02-8	5.0	5.0	5.0	1.0	Y	1.0	5.9856251	120	4.506646391	90	6.2722431	126
Acrylonitrile	107-13-1	0.50	0.50	0.50	1.0	Y	1.0	0.5651999	113	0.466895501	93	0.4965948	99
Alpha Methyl Styrene	98-83-9	0.20	0.20	0.20	1.0	Y	1.0	0.1511434	76	0.142595619	71	0.1719449	86
Benzene	71-43-2	0.20	0.20	0.20	1.0	Y	1.0	0.2278442	114	0.205776913	103	0.2311636	116
Benzyl chloride	100-44-7	0.20	0.20	0.20	1.0	Y	1.0	0.1887917	94	0.173426176	87	0.1754307	88
Bromodichloromethane	75-27-4	0.20	0.20	0.20	1.0	Y	1.0	0.2043207	102	0.178787348	89	0.2241085	112
Bromoethene(Vinyl Bromide)	593-60-2	0.20	0.20	0.20	1.0	Y	1.0	0.2341048	117	0.202929167	101	0.2178155	109
Bromoform	75-25-2	0.20	0.20	0.20	1.0	Y	1.0	0.1518521	76	0.155865313	78	0.2132712	107
Bromomethane	74-83-9	0.20	0.20	0.20	1.0	Y	1.0	0.2482376	124	0.235466793	118	0.2183876	109
Carbon disulfide	75-15-0	0.50	0.50	0.50	1.0	Y	1.0	0.583639	117	0.498735702	100	0.4880552	98

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		NJDEPLLT015		Prep Date:		01/30/12, 01/31/12, 02/01/12		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		B		C		G	
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624		RTX-624		RTX-624	
MATRIX:		AIR		CSV Ref:		LOQ		01/30/12, 01/31/12		01/30/12, 02/09/12, 02/28/12		01/31/12	
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Ratio	Pass	Spike / LOQ Ratio	Result ppbv	%R	Result ppbv	%R	Result ppbv	%R
Carbon tetrachloride	56-23-5	0.040	0.040	0.040	1.0	Y	1.0	0.04735274	118	0.057302274	143	0.0503509	126
Chlorobenzene	108-90-7	0.20	0.20	0.20	1.0	Y	1.0	0.2062465	103	0.20444255	102	0.2411045	121
Chloroethane	75-00-3	0.50	0.50	0.50	1.0	Y	1.0	0.6750309	135	0.561782534	112	0.552979	111
Chloroform	67-66-3	0.20	0.20	0.20	1.0	Y	1.0	0.2207505	110	0.208729889	104	0.2151206	108
Chloromethane	74-87-3	0.50	0.50	0.50	1.0	Y	1.0	0.7072121	141	0.572340069	114	0.5452139	109
cis-1,2-Dichloroethene	156-59-2	0.20	0.20	0.20	1.0	Y	1.0	0.2050401	103	0.233783716	117	0.2441383	122
cis-1,3-Dichloropropene	10061-01-5	0.20	0.20	0.20	1.0	Y	1.0	0.1984556	99	0.196129627	98	0.2190777	110
Cumene	98-82-8	0.20	0.20	0.20	1.0	Y	1.0	0.1919965	96	0.194614906	97	0.2096771	105
Cyclohexane	110-82-7	0.20	0.20	0.20	1.0	Y	1.0	0.2122781	106	0.192938431	96	0.2086209	104
Dibromochloromethane	124-48-1	0.20	0.20	0.20	1.0	Y	1.0	0.1740128	87	0.169791393	85	0.2171467	109
Dibromomethane	74-95-3	0.20	0.20	0.20	1.0	Y	1.0	0.1859379	93	0.186893166	93	0.2350577	118
Dichlorodifluoromethane	75-71-8	0.50	0.50	0.50	1.0	Y	1.0	0.6652969	133	0.605556406	121	0.5640332	113
Ethanol	64-17-5	5.0	5.0	5.0	1.0	Y	1.0	6.414391	128	4.588677443	92	4.5392526	91
Ethyl acetate	141-78-6	5.0	5.0	5.0	1.0	Y	1.0	5.1923032	104	4.050578521	81	5.2451261	105
Ethyl ether	60-29-7	0.20	0.20	0.20	1.0	Y	1.0	0.2113528	106	0.199897571	100	0.1967665	98
Ethylbenzene	100-41-4	0.20	0.20	0.20	1.0	Y	1.0	0.2100009	105	0.192919809	96	0.2107844	105
Freon 22	75-45-6	0.50	0.50	0.50	1.0	Y	1.0	0.6807316	136	0.534866731	107	0.5578464	112
Freon TF	76-13-1	0.20	0.20	0.20	1.0	Y	1.0	0.219404	110	0.210084144	105	0.2112665	106
Hexachlorobutadiene	87-68-3	0.20	0.20	0.20	1.0	Y	1.0	0.1960653	98	0.210306905	105	0.2692485	135
Isopentane	78-78-4	0.20	0.20	0.20	1.0	Y	1.0	0.2693743	135	0.242683191	121	0.2101781	105
Isopropyl alcohol	67-63-0	5.0	5.0	5.0	1.0	Y	1.0	5.7955138	116	4.748712087	95	5.8711771	118
m,p-Xylene	179601-23-1	0.40	0.40	0.40	1.0	Y	1.0	0.4079192	102	0.373681854	93	0.4171524	104
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.50	0.50	0.50	1.0	Y	1.0	0.4598035	92	0.432799764	87	0.5299716	106
Methyl Ethyl Ketone	78-93-3	0.50	0.50	0.50	1.0	Y	1.0	0.5817211	116	0.513150981	103	0.5314954	106
Methyl isobutyl ketone	108-10-1	0.50	0.50	0.50	1.0	Y	1.0	0.5368203	107	0.465013224	93	0.4965566	99
Methyl methacrylate	80-62-6	0.50	0.50	0.50	1.0	Y	1.0	0.4559876	91	0.422457781	84	0.4628928	93
Methyl tert-butyl ether	1634-04-4	0.20	0.20	0.20	1.0	Y	1.0	0.2109562	105	0.215864572	108	0.1961266	98
Methylene Chloride	75-09-2	0.50	0.50	0.50	1.0	Y	1.0	0.6933183	139	0.560089251	112	0.5694856	114
Naphthalene	91-20-3	0.50	0.50	0.50	1.0	Y	1.0	0.380915	76	0.427072059	85	0.3103585	62
n-Butane	106-97-8	0.50	0.50	0.50	1.0	Y	1.0	0.6783094	136	0.525345233	105	0.5107488	102
n-Butanol	71-36-3	5.0	5.0	5.0	1.0	Y	1.0	5.2636989	105	4.63588975	93	5.4638248	109
n-Butylbenzene	104-51-8	0.20	0.20	0.20	1.0	Y	1.0	0.216894	108	0.157349697	79	0.1672985	84
n-Decane	124-18-5	0.50	0.50	0.50	1.0	Y	1.0	0.625222	125	0.307285191	61	0.432654	87
n-Dodecane	112-40-3	5.0	5.0	5.0	1.0	Y	1.0	6.5131796	131	2.645476656	53	4.6162814	93
n-Heptane	142-82-5	0.20	0.20	0.20	1.0	Y	1.0	0.2393929	120	0.185069607	93	0.2075883	104
n-Hexane	110-54-3	0.20	0.20	0.20	1.0	Y	1.0	0.2256931	113	0.194778498	97	0.2108638	105

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		NJEPLLT015		Prep Date:		01/30/12, 01/31/12, 02/		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		C					
CLEANUP METHOD(S):		NA		Final Amount:		200 mL		RTX-624		RTX-624		RTX-624	
MATRIX:		AIR		LOQ		LOQ		01/30/12, 01/31/12		01/30/12, 02/09/12, 02/28/12		01/31/12	
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Ratio	Pass	Spike / LOQ Ratio	Result ppbv	%R	Result ppbv	%R	Result ppbv	%R
n-Nonane	111-84-2	0.20	0.20	0.20	1.0	Y	0.233004	0.169124795	117	0.169124795	85	0.1954915	98
n-Octane	111-65-9	0.50	0.50	0.50	1.0	Y	0.6737594	0.448385812	135	0.448385812	90	0.4802081	96
n-Pentane	109-66-0	0.50	0.50	0.50	1.0	Y	0.6811029	0.489728166	136	0.489728166	98	0.4541239	91
n-Propylbenzene	103-65-1	0.20	0.20	0.20	1.0	Y	0.2176803	0.180087873	109	0.180087873	90	0.2056518	103
n-Undecane	1120-21-4	5.0	5.0	5.0	1.0	Y	7.0288046	5.340271543	141	5.340271543	107	4.2634973	85
Propylene	115-07-1	5.0	5.0	5.0	1.0	Y	6.2890372	4.963429273	126	4.963429273	99	5.0779861	102
sec-Butylbenzene	135-98-8	0.20	0.20	0.20	1.0	Y	0.2136936	0.186399819	107	0.186399819	93	0.1992368	100
Styrene	100-42-5	0.20	0.20	0.20	1.0	Y	0.1610885	0.168681925	81	0.168681925	84	0.1825784	91
tert-Butyl alcohol	75-65-0	5.0	5.0	5.0	1.0	Y	5.7298763	4.769935009	115	4.769935009	96	5.8027565	116
tert-Butylbenzene	98-06-6	0.20	0.20	0.20	1.0	Y	0.2031567	0.187843873	102	0.187843873	94	0.2195841	110
Tetrachloroethene	127-18-4	0.20	0.20	0.20	1.0	Y	0.18203	0.191830153	91	0.191830153	96	0.26346	132
Tetrahydrofuran	109-99-9	5.0	5.0	5.0	1.0	Y	6.4020166	4.179536752	128	4.179536752	84	4.9814126	100
Toluene	108-88-3	0.20	0.20	0.20	1.0	Y	0.2146481	0.193888307	107	0.193888307	97	0.2518171	126
trans-1,2-Dichloroethene	156-60-5	0.20	0.20	0.20	1.0	Y	0.2281665	0.191509899	114	0.191509899	96	0.2067603	103
trans-1,3-Dichloropropene	10061-02-6	0.20	0.20	0.20	1.0	Y	0.1920366	0.186799607	96	0.186799607	93	0.234312	117
Trichloroethene	79-01-6	0.040	0.040	0.040	1.0	Y	0.0459406	0.047078137	115	0.047078137	117	0.047473	118
Trichlorofluoromethane	75-69-4	0.20	0.20	0.20	1.0	Y	0.2293409	0.217889263	115	0.217889263	109	0.2307896	115
Vinyl acetate	108-05-4	5.0	5.0	5.0	1.0	Y	6.2197289	4.530989643	125	4.530989643	91	5.5677659	112
Vinyl chloride	75-01-4	0.040	0.040	0.040	1.0	Y	0.0455769	0.037653748	114	0.037653748	94	0.048425	121
Xylene, o-	95-47-6	0.20	0.20	0.20	1.0	Y	0.1900893	0.194634968	95	0.194634968	97	0.2085756	104

Note: Pass = The %R on each instrument is within 50-150%

Method T015 Low Level - New Jersey

Volatile Organic Compounds - Low
level (GC/MS) by New Jersey Method
TO 15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-16916-1
 SDG No.: 200-16916
 Matrix: Air Level: Low Lab File ID: gieo004.d
 Lab ID: LCS 200-56985/4 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	0.200	0.201	100	60-140	
1,1-Dichloroethene	0.200	0.221	110	60-140	
1,2-Dichloroethene, trans-	0.200	0.213	106	60-140	
1,1-Dichloroethane	0.200	0.183 J	91	60-140	
1,2-Dichloroethene, cis-	0.200	0.194 J	97	60-140	
1,1,1-Trichloroethane	0.200	0.204	102	60-140	
Carbon tetrachloride	0.200	0.197 J	98	60-140	
1,2-Dichloroethane	0.200	0.188 J	94	60-140	
Trichloroethene	0.200	0.206	103	60-140	
Tetrachloroethene	0.200	0.204	102	60-140	

Column to be used to flag recovery and RPD values

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-16916-1
 SDG No.: 200-16916
 Lab File ID: gieo003.d Lab Sample ID: MB 200-56985/3
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: G.i Date Analyzed: 06/12/2013 11:00
 GC Column: RTX-624 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-56985/4	gieo004.d	06/12/2013 11:47
SG060613-SGP-01	200-16916-1	gieo008.d	06/12/2013 14:56
AA060613-SGP-01	200-16916-2	gieo009.d	06/12/2013 15:43

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-16916-1
 SDG No.: 200-16916
 Lab File ID: gie001.d BFB Injection Date: 05/17/2013
 Instrument ID: G.i BFB Injection Time: 09:46
 Analysis Batch No.: 55733

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	13.0	
75	30.0 - 66.0% of mass 95	41.9	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.5	(0.4) 1
174	50.0 - 120.0% of mass 95	104.7	
175	4.0 - 9.0 % of mass 174	7.4	(7.0) 1
176	93.0 - 101.0% of mass 174	103.4	(98.7) 1
177	5.0 - 9.0% of mass 176	6.7	(6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-55733/4	gie004.d	05/17/2013	12:12
	IC 200-55733/5	gie005.d	05/17/2013	13:02
	IC 200-55733/6	gie006.d	05/17/2013	13:52
	ICIS 200-55733/7	gie007.d	05/17/2013	14:42
	IC 200-55733/8	gie008.d	05/17/2013	15:32
	IC 200-55733/9	gie009.d	05/17/2013	16:22
	IC 200-55733/10	gie010.d	05/17/2013	17:12
	ICV 200-55733/15	gie015.d	05/17/2013	21:21

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-16916-1
 SDG No.: 200-16916
 Lab File ID: gieo001.d BFB Injection Date: 06/12/2013
 Instrument ID: G.i BFB Injection Time: 09:22
 Analysis Batch No.: 56985

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	12.1	
75	30.0 - 66.0% of mass 95	40.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.4	(0.4) 1
174	50.0 - 120.0% of mass 95	108.8	
175	4.0 - 9.0 % of mass 174	7.4	(6.8) 1
176	93.0 - 101.0% of mass 174	107.1	(98.5) 1
177	5.0 - 9.0% of mass 176	7.1	(6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-56985/2	gieo002.d	06/12/2013	10:10
	MB 200-56985/3	gieo003.d	06/12/2013	11:00
	LCS 200-56985/4	gieo004.d	06/12/2013	11:47
	LCS 200-56985/5	gieo005.d	06/12/2013	12:35
	LCS 200-56985/6	gieo006.d	06/12/2013	13:22
SG060613-SGP-01	200-16916-1	gieo008.d	06/12/2013	14:56
AA060613-SGP-01	200-16916-2	gieo009.d	06/12/2013	15:43
	CCVC 200-56985/18	gieo018.d	06/12/2013	22:44

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-16916-1
 SDG No.: 200-16916
 Sample No.: ICIS 200-55733/7 Date Analyzed: 05/17/2013 14:42
 Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): gie007.d Heated Purge: (Y/N) N
 Calibration ID: 21766

	BCM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	617845	10.83	3659543	12.91	3457464	19.07
UPPER LIMIT	864983	11.16	5123360	13.24	4840450	19.40
LOWER LIMIT	370707	10.50	2195726	12.58	2074478	18.74
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-55733/15	638955	10.83	3814293	12.91	3601006	19.06

BCM = Chlorobromomethane
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-16916-1
 SDG No.: 200-16916
 Sample No.: CCVIS 200-56985/2 Date Analyzed: 06/12/2013 10:10
 Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): gieo002.d Heated Purge: (Y/N) N
 Calibration ID: 21766

	BCM		DFB		CBZ			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	526034	10.81	3295176	12.89	3201008	19.05		
UPPER LIMIT	736448	11.14	4613246	13.22	4481411	19.38		
LOWER LIMIT	315620	10.48	1977106	12.56	1920605	18.72		
LAB SAMPLE ID	CLIENT SAMPLE ID							
MB 200-56985/3			506627	10.81	3179572	12.88	2903668	19.04
LCS 200-56985/4			496639	10.81	3123696	12.88	2822549	19.04
LCS 200-56985/5			503924	10.81	3062419	12.88	2843536	19.04
LCS 200-56985/6			492911	10.81	3030495	12.89	2930464	19.05
200-16916-1		SG060613-SGP-01	494341	10.81	3055340	12.88	2793840	19.04
200-16916-2		AA060613-SGP-01	490822	10.81	2959085	12.88	2706642	19.04

BCM = Chlorobromomethane
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-16916-1
 SDG No.: 200-16916
 Client Sample ID: SG060613-SGP-01 Lab Sample ID: 200-16916-1
 Matrix: Air Lab File ID: gieo008.d
 Analysis Method: TO15LL/NJ Date Collected: 06/06/2013 16:11
 Sample wt/vol: 20 (mL) Date Analyzed: 06/12/2013 14:56
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 56985 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	2.0	U	2.0	0.091
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.86
156-60-5	1,2-Dichloroethene, trans-	2.0	U	2.0	0.23
75-34-3	1,1-Dichloroethane	2.0	U	2.0	0.23
156-59-2	1,2-Dichloroethene, cis-	4.9		2.0	0.84
71-55-6	1,1,1-Trichloroethane	3.9		2.0	0.20
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.13
107-06-2	1,2-Dichloroethane	2.0	U	2.0	0.18
79-01-6	Trichloroethene	45		2.0	0.092
127-18-4	Tetrachloroethene	280		2.0	0.15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-16916-1
 SDG No.: 200-16916
 Client Sample ID: AA060613-SGP-01 Lab Sample ID: 200-16916-2
 Matrix: Air Lab File ID: gieo009.d
 Analysis Method: TO15LL/NJ Date Collected: 06/06/2013 16:11
 Sample wt/vol: 20 (mL) Date Analyzed: 06/12/2013 15:43
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 56985 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	2.0	U	2.0	0.091
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.86
156-60-5	1,2-Dichloroethene, trans-	2.0	U	2.0	0.23
75-34-3	1,1-Dichloroethane	2.0	U	2.0	0.23
156-59-2	1,2-Dichloroethene, cis-	2.0	U	2.0	0.84
71-55-6	1,1,1-Trichloroethane	2.0	U	2.0	0.20
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.13
107-06-2	1,2-Dichloroethane	2.0	U	2.0	0.18
79-01-6	Trichloroethene	2.0	U	2.0	0.092
127-18-4	Tetrachloroethene	2.0	U	2.0	0.15

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-16916-1 Analy Batch No.: 55733

SDG No.: 200-16916

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/17/2013 12:12 Calibration End Date: 05/17/2013 17:12 Calibration ID: 21766

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-55733/4	gie004.d
Level 2	IC 200-55733/5	gie005.d
Level 3	IC 200-55733/6	gie006.d
Level 4	ICIS 200-55733/7	gie007.d
Level 5	IC 200-55733/8	gie008.d
Level 6	IC 200-55733/9	gie009.d
Level 7	IC 200-55733/10	gie010.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Dichlorodifluoromethane	++++ 1.6029	1.7565 1.3812	1.6814	1.6500	1.6623	Ave		1.6224			7.9		30.0				
1,2-Dichlorotetrafluoroethane	1.5771 1.5056	1.6701 1.2837	1.6024	1.5629	1.5663	Ave		1.5383			8.0		30.0				
Chloromethane	++++ 0.3226	0.3615 0.2827	0.3322	0.3295	0.3332	Ave		0.3269			7.8		30.0				
Vinyl chloride	0.4311 0.4192	0.4234 0.3719	0.4319	0.4217	0.4350	Ave		0.4192			5.2		30.0				
1,3-Butadiene	0.2886 0.2690	0.3058 0.2368	0.2805	0.2760	0.2766	Ave		0.2762			7.6		30.0				
Bromomethane	0.5660 0.5626	0.5958 0.4930	0.5826	0.5786	0.5791	Ave		0.5654			6.0		30.0				
Chloroethane	++++ 0.1695	0.1795 0.1524	0.1709	0.1729	0.1758	Ave		0.1702			5.5		30.0				
Vinyl bromide	0.7013 0.6689	0.6829 0.5863	0.6759	0.6738	0.6882	Ave		0.6682			5.6		30.0				
Trichlorofluoromethane	1.9680 1.9474	2.0860 1.7181	2.0268	1.9871	2.0176	Ave		1.9644			6.0		30.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3298 1.2232	1.3588 1.0508	1.2813	1.2520	1.2736	Ave		1.2528			8.0		30.0				
1,1-Dichloroethene	0.5815 0.5120	0.5621 0.4463	0.5336	0.5215	0.5302	Ave		0.5268			8.1		30.0				
Acetone	++++ 0.5578	++++ 0.4946	0.9515	0.7057	0.5723	Ave		0.6564			27.7		30.0				
Carbon disulfide	++++ 1.5293	1.6031 1.3453	1.5742	1.5753	1.5718	Ave		1.5332			6.2		30.0				
Isopropanol	++++ 0.3975	++++ 0.3609	0.4263	0.4405	0.4385	Ave		0.4127			8.2		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

Analy Batch No.: 55733

SDG No.: 200-16916

Instrument ID: G.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 05/17/2013 12:12

Calibration End Date: 05/17/2013 17:12

Calibration ID: 21766

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Allyl chloride	0.4387 0.3839	0.4118 0.3378	0.3881	0.3899	0.3914	Ave		0.3917			7.8		30.0				
Methylene Chloride	++++ 0.4333	0.5407 0.3822	0.4530	0.4393	0.4459	Ave		0.4491			11.5		30.0				
tert-Butyl alcohol	++++ 0.7061	++++ 0.6568	0.8177	0.8016	0.7867	Ave		0.7538			9.2		30.0				
Methyl tert-butyl ether	1.3387 1.3722	1.3980 1.2028	1.4004	1.3843	1.4144	Ave		1.3587			5.4		30.0				
1,2-Dichloroethene, trans-	0.7192 0.6729	0.7155 0.5811	0.7002	0.6898	0.6924	Ave		0.6816			6.9		30.0				
n-Hexane	0.6028 0.5722	0.6629 0.5028	0.5901	0.5919	0.5984	Ave		0.5887			8.0		30.0				
1,1-Dichloroethane	0.9655 0.9705	1.0062 0.8631	0.9878	0.9820	0.9957	Ave		0.9673			5.0		30.0				
1,2-Dichloroethene, cis-	0.8274 0.8072	0.8373 0.7120	0.8323	0.8264	0.8383	Ave		0.8116			5.6		30.0				
Methyl Ethyl Ketone	++++ 0.2869	0.5834 0.2520	0.3154	0.3045	0.2924	Ave		0.3391			35.9	*	30.0				
Tetrahydrofuran	++++ 0.0809	++++ 0.0694	0.0904	0.0856	0.0846	Ave		0.0822			9.6		30.0				
Chloroform	1.8822 1.8850	1.9895 1.6528	1.9547	1.9325	1.9588	Ave		1.8936			6.0		30.0				
Cyclohexane	0.1866 0.1635	0.1950 0.1377	0.1856	0.1749	0.1730	Ave		0.1738			10.9		30.0				
1,1,1-Trichloroethane	0.4127 0.3659	0.4111 0.3131	0.4002	0.3820	0.3830	Ave		0.3811			9.0		30.0				
Carbon tetrachloride	0.4704 0.4697	0.4925 0.4076	0.4952	0.4836	0.4876	Ave		0.4724			6.4		30.0				
2,2,4-Trimethylpentane	0.6490 0.5435	0.6624 0.4484	0.6333	0.5909	0.5766	Ave		0.5863			12.6		30.0				
Benzene	0.5472 0.4331	0.5180 0.3597	0.5031	0.4714	0.4594	Ave		0.4703			13.2		30.0				
1,2-Dichloroethane	0.2487 0.2256	0.2355 0.1961	0.2400	0.2341	0.2343	Ave		0.2306			7.3		30.0				
n-Heptane	0.2347 0.1890	0.2480 0.1575	0.2188	0.2042	0.2016	Ave		0.2077			14.4		30.0				
Trichloroethene	0.3125 0.2905	0.2944 0.2479	0.3029	0.2994	0.3043	Ave		0.2931			7.2		30.0				
1,2-Dichloropropane	0.2178 0.2109	0.2206 0.1794	0.2269	0.2201	0.2212	Ave		0.2138			7.4		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington

Job No.: 200-16916-1

Analy Batch No.: 55733

SDG No.: 200-16916

Instrument ID: G.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 05/17/2013 12:12

Calibration End Date: 05/17/2013 17:12

Calibration ID: 21766

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Methyl methacrylate	++++ 0.1991	0.1899 0.1698	0.2073	0.2020	0.2076	Ave		0.1959			7.3		30.0				
1,4-Dioxane	++++ 0.0831	0.0904 0.0702	0.0904	0.0967	0.0896	Ave		0.0860			11.7		30.0				
Bromodichloromethane	0.4726 0.5032	0.4809 0.4356	0.5135	0.5072	0.5213	Ave		0.4906			6.1		30.0				
1,3-Dichloropropene, cis-	0.3168 0.3602	0.3030 0.3119	0.3607	0.3636	0.3712	Ave		0.3410			8.5		30.0				
Methyl isobutyl ketone	++++ 0.3223	0.3226 0.2706	0.3580	0.3429	0.3364	Ave		0.3255			9.2		30.0				
Toluene	0.5409 0.4921	0.5702 0.4148	0.5322	0.5160	0.5160	Ave		0.5117			9.6		30.0				
1,3-Dichloropropene, trans-	0.2782 0.3646	0.2842 0.3200	0.3513	0.3635	0.3734	Ave		0.3336			11.9		30.0				
1,1,2-Trichloroethane	0.2837 0.2519	0.2939 0.2120	0.2705	0.2651	0.2629	Ave		0.2629			10.0		30.0				
Tetrachloroethene	0.5667 0.5443	0.5712 0.4807	0.5489	0.5442	0.5594	Ave		0.5451			5.6		30.0				
Dibromochloromethane	0.5584 0.6568	0.6087 0.5736	0.6513	0.6546	0.6754	Ave		0.6255			7.3		30.0				
1,2-Dibromoethane	0.4775 0.5093	0.4453 0.4435	0.5010	0.5131	0.5221	Ave		0.4874			6.7		30.0				
Chlorobenzene	0.7175 0.7155	0.7166 0.6153	0.7306	0.7279	0.7440	Ave		0.7096			6.0		30.0				
Ethylbenzene	1.0942 1.0417	1.1113 0.8703	1.1015	1.0838	1.0882	Ave		1.0559			8.0		30.0				
m-Xylene & p-Xylene	0.4450 0.4271	0.4533 0.3418	0.4610	0.4520	0.4500	Ave		0.4329			9.6		30.0				
o-Xylene	0.4467 0.4420	0.4670 0.3694	0.4686	0.4585	0.4595	Ave		0.4445			7.8		30.0				
Styrene	0.5363 0.6590	0.5149 0.5630	0.6462	0.6121	0.6841	Ave		0.6022			10.8		30.0				
Bromoform	0.5148 0.7192	0.5218 0.6279	0.6655	0.6903	0.7301	Ave		0.6385			13.9		30.0				
1,1,2,2-Tetrachloroethane	0.6608 0.6220	0.6750 0.4961	0.6902	0.6687	0.6571	Ave		0.6386			10.4		30.0				
4-Ethyltoluene	1.0874 1.0357	1.1301 0.7443	1.2078	1.1805	1.1343	Ave		1.0743			14.5		30.0				
2-Chlorotoluene	0.9710 0.8219	0.9834 0.6068	0.9824	0.9401	0.9066	Ave		0.8875			15.4		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-16916-1 Analy Batch No.: 55733

SDG No.: 200-16916

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/17/2013 12:12 Calibration End Date: 05/17/2013 17:12 Calibration ID: 21766

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
1,3,5-Trimethylbenzene	1.0681 1.0175	1.0875 0.8239	1.0868	1.0656	1.0736	Ave		1.0318			9.2		30.0				
1,2,4-Trimethylbenzene	0.9802 0.9972	1.0033 0.8058	1.0591	1.0455	1.0416	Ave		0.9904			8.7		30.0				
1,3-Dichlorobenzene	0.4868 0.7293	0.4605 0.6163	0.6507	0.7095	0.7365	Ave		0.6271			18.1		30.0				
1,4-Dichlorobenzene	0.3956 0.7027	0.3693 0.6265	0.5776	0.6594	0.6935	Ave		0.5750			24.0		30.0				
1,2-Dichlorobenzene	0.5628 0.7368	0.5428 0.6410	0.6807	0.7197	0.7427	Ave		0.6609			12.4		30.0				
1,2,4-Trichlorobenzene	++++ 0.4397	0.1618 0.3661	0.3294	0.3949	0.4217	Ave		0.3523			28.7		30.0				
Hexachlorobutadiene	0.7044 0.6874	0.6980 0.4836	0.7183	0.6992	0.6963	Ave		0.6696			12.3		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-16916-1 Analy Batch No.: 55733

SDG No.: 200-16916

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/17/2013 12:12 Calibration End Date: 05/17/2013 17:12 Calibration ID: 21766

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-55733/4	gie004.d
Level 2	IC 200-55733/5	gie005.d
Level 3	IC 200-55733/6	gie006.d
Level 4	ICIS 200-55733/7	gie007.d
Level 5	IC 200-55733/8	gie008.d
Level 6	IC 200-55733/9	gie009.d
Level 7	IC 200-55733/10	gie010.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	BCM	Ave	++++ 1971717	53951 3440117	531385	1019426	1537039	++++ 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichlorotetrafluoroethane	BCM	Ave	20326 1852037	51295 3197250	506416	965610	1448221	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chloromethane	BCM	Ave	++++ 396773	11104 704189	104976	203578	308068	++++ 20.0	0.500 40.0	5.00	10.0	15.0
Vinyl chloride	BCM	Ave	5556 515694	13003 926278	136493	260537	402248	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Butadiene	BCM	Ave	3719 330924	9394 589846	88637	170529	255776	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromomethane	BCM	Ave	7295 692117	18300 1227996	184124	357460	535497	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chloroethane	BCM	Ave	++++ 208553	5514 379474	54007	106813	162516	++++ 20.0	0.500 40.0	5.00	10.0	15.0
Vinyl bromide	BCM	Ave	9039 822792	20975 1460177	213597	416297	636331	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Trichlorofluoromethane	BCM	Ave	25364 2395540	64069 4279326	640540	1227745	1865583	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2-Trichloro-1,2,2-trifluoroethane	BCM	Ave	17138 1504652	41734 2617150	404947	773531	1177657	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1-Dichloroethene	BCM	Ave	7495 629797	17264 1111606	168653	322228	490278	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acetone	BCM	Ave	++++ 686204	++++ 1231798	300701	436044	529183	++++ 20.0	++++ 40.0	5.00	10.0	15.0
Carbon disulfide	BCM	Ave	++++ 1881203	49238 3350693	497511	973265	1453332	++++ 20.0	0.500 40.0	5.00	10.0	15.0
Isopropanol	BCM	Ave	++++ 488983	++++ 898931	134737	272143	405411	++++ 20.0	++++ 40.0	5.00	10.0	15.0
Allyl chloride	BCM	Ave	5654 472286	12649 841473	122660	240891	361867	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-16916-1 Analy Batch No.: 55733

SDG No.: 200-16916

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/17/2013 12:12 Calibration End Date: 05/17/2013 17:12 Calibration ID: 21766

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methylene Chloride	BCM	Ave	++++ 533066	16607 951881	143160	271417	412322	++++ 20.0	0.500 40.0	5.00	10.0	15.0
tert-Butyl alcohol	BCM	Ave	++++ 868636	21975 1635992	258424	495255	727427	++++ 20.0	++++ 40.0	5.00	10.0	15.0
Methyl tert-butyl ether	BCM	Ave	17253 1687929	42940 2995863	442579	855293	1307845	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloroethene, trans-	BCM	Ave	9269 827761	21975 1447283	221289	426181	640216	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Hexane	BCM	Ave	7769 703822	20361 1252406	186489	365675	553258	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1-Dichloroethane	BCM	Ave	12444 1193803	30905 2149813	312180	606743	920630	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloroethene, cis-	BCM	Ave	10663 992994	25718 1773301	263046	510599	775159	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl Ethyl Ketone	BCM	Ave	++++ 352872	17920 627691	99678	188110	270335	++++ 20.0	0.500 40.0	5.00	10.0	15.0
Tetrahydrofuran	DFB	Ave	++++ 610095	++++ 1085323	162351	313186	472057	++++ 20.0	++++ 40.0	5.00	10.0	15.0
Chloroform	BCM	Ave	24258 2318750	61106 4116720	617771	1193962	1811173	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Cyclohexane	DFB	Ave	13437 1232361	34413 2154474	333242	640115	965387	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,1-Trichloroethane	DFB	Ave	29718 2757820	72551 4898031	718343	1397857	2137064	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Carbon tetrachloride	DFB	Ave	33869 3539998	86924 6375164	889010	1769771	2720528	0.200 20.0	0.500 40.0	5.00	10.0	15.0
2,2,4-Trimethylpentane	DFB	Ave	46730 4096205	116903 7013600	1136889	2162590	3217575	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Benzene	DFB	Ave	39397 3263893	91419 5626806	903049	1725233	2563627	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloroethane	DFB	Ave	17906 1700319	41567 3067983	430895	856580	1307404	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Heptane	DFB	Ave	16901 1424715	43768 2463713	392816	747142	1124950	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Trichloroethene	DFB	Ave	22504 2189175	51958 3877351	543765	1095532	1697845	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloropropane	DFB	Ave	15682 1589657	38928 2806031	407291	805397	1234080	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl methacrylate	DFB	Ave	++++ 1500597	33506 2656205	372204	739196	1158275	++++ 20.0	0.500 40.0	5.00	10.0	15.0
1,4-Dioxane	DFB	Ave	++++ 626119	++++ 1098005	162367	353804	500059	++++ 20.0	++++ 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-16916-1 Analy Batch No.: 55733

SDG No.: 200-16916

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/17/2013 12:12 Calibration End Date: 05/17/2013 17:12 Calibration ID: 21766

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Bromodichloromethane	DFB	Ave	34027 3792213	84866 6813885	921763	1856119	2908629	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichloropropene, cis-	DFB	Ave	22807 2714524	53479 4878657	647497	1330569	2071349	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl isobutyl ketone	DFB	Ave	++++ 2429032	56938 4233237	642704	1254681	1876911	++++ 20.0	0.500 40.0	5.00	10.0	15.0
Toluene	CBZ	Ave	33743 3546972	85381 6236553	890785	1784113	2736482	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichloropropene, trans-	DFB	Ave	20033 2747968	50153 5005180	630591	1330176	2083338	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2-Trichloroethane	CBZ	Ave	17696 1815555	44014 3188222	452728	916459	1394192	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Tetrachloroethene	CBZ	Ave	35351 3923321	85534 7228014	918709	1881634	2966707	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Dibromochloromethane	CBZ	Ave	34829 4733805	91153 8624810	1090049	2263148	3582274	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dibromoethane	CBZ	Ave	29783 3670661	66689 6669252	838577	1773936	2768853	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chlorobenzene	CBZ	Ave	44754 5157218	107312 9251478	1222799	2516566	3945734	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Ethylbenzene	CBZ	Ave	68254 7508092	166421 13086651	1843544	3747370	5771428	0.200 20.0	0.500 40.0	5.00	10.0	15.0
m-Xylene & p-Xylene	CBZ	Ave	55512 6156140	135774 10278157	1543117	3125450	4773833	0.400 40.0	1.00 80.0	10.0	20.0	30.0
o-Xylene	CBZ	Ave	27864 3185750	69939 5554107	784247	1585097	2437331	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Styrene	CBZ	Ave	33451 4749576	77105 8465265	1081569	2116145	3628153	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromoform	CBZ	Ave	32112 5183474	78145 9441266	1113831	2386786	3872045	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	41219 4483273	101082 7459449	1155157	2311876	3485271	0.200 20.0	0.500 40.0	5.00	10.0	15.0
4-Ethyltoluene	CBZ	Ave	67833 7464877	169237 11191444	2021490	4081554	6016019	0.200 20.0	0.500 40.0	5.00	10.0	15.0
2-Chlorotoluene	CBZ	Ave	60568 5924051	147258 9124700	1644228	3250507	4808588	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3,5-Trimethylbenzene	CBZ	Ave	66623 7333680	162849 12387856	1818963	3684153	5694260	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2,4-Trimethylbenzene	CBZ	Ave	61143 7187742	150241 12116052	1772564	3614818	5524348	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichlorobenzene	CBZ	Ave	30363 5256425	68958 9267559	1089080	2453230	3906074	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
 AIR - GC/MS VOA INITIAL CALIBRATION DATA
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-16916-1 Analy Batch No.: 55733

SDG No.: 200-16916

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/17/2013 12:12 Calibration End Date: 05/17/2013 17:12 Calibration ID: 21766

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
1,4-Dichlorobenzene	CBZ	Ave	24677 5064744	55308 9420431	966762	2279921	3678171	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichlorobenzene	CBZ	Ave	35107 5310263	81281 9638310	1139337	2488268	3939346	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2,4-Trichlorobenzene	CBZ	Ave	++++ 3168861	24236 5505447	551370	1365217	2236740	++++ 20.0	0.500 40.0	5.00	10.0	15.0
Hexachlorobutadiene	CBZ	Ave	43940 4954499	104528 7271392	1202277	2417444	3692763	0.200 20.0	0.500 40.0	5.00	10.0	15.0

Curve Type Legend:

Ave = Average ISTD

FORM III
AIR - GC/MS VOA INITIAL CALIBRATION VERIFICATION RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-16916-1
 SDG No.: 200-16916
 Matrix: Air Level: Low Lab File ID: gie015.d
 Lab ID: ICV 200-55733/15 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	ICV CONCENTRATION (ppb v/v)	ICV % REC	QC LIMITS REC	#
Vinyl chloride	10.0	10.6	106	70-130	
1,1-Dichloroethene	10.0	11.5	115	70-130	
1,2-Dichloroethene, trans-	10.0	10.4	105	70-130	
1,1-Dichloroethane	10.0	10.6	106	70-130	
1,2-Dichloroethene, cis-	10.0	10.8	108	70-130	
1,1,1-Trichloroethane	10.0	10.4	104	70-130	
Carbon tetrachloride	10.0	10.5	105	70-130	
1,2-Dichloroethane	10.0	10.3	103	70-130	
Trichloroethene	10.0	10.5	105	70-130	
Tetrachloroethene	10.0	9.91	99	70-130	

Column to be used to flag recovery and RPD values

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-16916-1
 SDG No.: 200-16916
 Lab Sample ID: CCVIS 200-56985/2 Calibration Date: 06/12/2013 10:10
 Instrument ID: G.i Calib Start Date: 05/17/2013 12:12
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 05/17/2013 17:12
 Lab File ID: gieo002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.622	1.660		10.2	10.0	2.3	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.538	1.607		10.4	10.0	4.5	30.0
Chloromethane	Ave	0.3269	0.3158		9.66	10.0	-3.4	30.0
Vinyl chloride	Ave	0.4192	0.3916		9.34	10.0	-6.6	30.0
1,3-Butadiene	Ave	0.2762	0.2486		9.00	10.0	-10.0	30.0
Bromomethane	Ave	0.5654	0.5607		9.91	10.0	-0.8	30.0
Chloroethane	Ave	0.1702	0.1581		9.29	10.0	-7.1	30.0
Vinyl bromide	Ave	0.6682	0.6609		9.89	10.0	-1.1	30.0
Trichlorofluoromethane	Ave	1.964	2.010		10.2	10.0	2.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.253	1.227		9.79	10.0	-2.1	30.0
1,1-Dichloroethene	Ave	0.5268	0.5058		9.60	10.0	-4.0	30.0
Acetone	Ave	0.6564	0.6336		9.65	10.0	-3.5	30.0
Carbon disulfide	Ave	1.533	1.446		9.43	10.0	-5.7	30.0
Isopropanol	Ave	0.4127	0.3516		8.52	10.0	-14.8	30.0
Allyl chloride	Ave	0.3917	0.3420		8.73	10.0	-12.7	30.0
Methylene Chloride	Ave	0.4491	0.4058		9.04	10.0	-9.6	30.0
tert-Butyl alcohol	Ave	0.7538	0.6503		8.62	10.0	-13.7	30.0
Methyl tert-butyl ether	Ave	1.359	1.277		9.40	10.0	-6.0	30.0
1,2-Dichloroethene, trans-	Ave	0.6816	0.6245		9.16	10.0	-8.4	30.0
n-Hexane	Ave	0.5887	0.5155		8.75	10.0	-12.4	30.0
1,1-Dichloroethane	Ave	0.9673	0.8675		8.97	10.0	-10.3	30.0
1,2-Dichloroethene, cis-	Ave	0.8116	0.7610		9.38	10.0	-6.2	30.0
Methyl Ethyl Ketone	Ave	0.3391	0.2492		7.35	10.0	-26.5	30.0
Tetrahydrofuran	Ave	0.0822	0.0695		8.46	10.0	-15.4	30.0
Chloroform	Ave	1.894	1.814		9.58	10.0	-4.2	30.0
Cyclohexane	Ave	0.1738	0.1463		8.42	10.0	-15.8	30.0
1,1,1-Trichloroethane	Ave	0.3811	0.3526		9.25	10.0	-7.5	30.0
Carbon tetrachloride	Ave	0.4724	0.4408		9.33	10.0	-6.7	30.0
2,2,4-Trimethylpentane	Ave	0.5863	0.4889		8.34	10.0	-16.6	30.0
Benzene	Ave	0.4703	0.4054		8.62	10.0	-13.8	30.0
1,2-Dichloroethane	Ave	0.2306	0.2034		8.82	10.0	-11.8	30.0
n-Heptane	Ave	0.2077	0.1726		8.31	10.0	-16.9	30.0
Trichloroethene	Ave	0.2931	0.2876		9.81	10.0	-1.9	30.0
1,2-Dichloropropane	Ave	0.2138	0.1996		9.33	10.0	-6.6	30.0
Methyl methacrylate	Ave	0.1959	0.1846		9.42	10.0	-5.8	30.0
1,4-Dioxane	Ave	0.0860	0.0817		9.49	10.0	-5.1	30.0
Bromodichloromethane	Ave	0.4906	0.4862		9.91	10.0	-0.9	30.0
1,3-Dichloropropene, cis-	Ave	0.3410	0.3324		9.74	10.0	-2.5	30.0
Methyl isobutyl ketone	Ave	0.3255	0.2996		9.20	10.0	-8.0	30.0
Toluene	Ave	0.5117	0.4669		9.12	10.0	-8.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-16916-1
 SDG No.: 200-16916
 Lab Sample ID: CCVIS 200-56985/2 Calibration Date: 06/12/2013 10:10
 Instrument ID: G.i Calib Start Date: 05/17/2013 12:12
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 05/17/2013 17:12
 Lab File ID: gieo002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropene, trans-	Ave	0.3336	0.3337		10.0	10.0	0.0	30.0
1,1,2-Trichloroethane	Ave	0.2629	0.2459		9.35	10.0	-6.4	30.0
Tetrachloroethene	Ave	0.5451	0.4955		9.09	10.0	-9.1	30.0
Dibromochloromethane	Ave	0.6255	0.5956		9.52	10.0	-4.8	30.0
1,2-Dibromoethane	Ave	0.4874	0.4712		9.67	10.0	-3.3	30.0
Chlorobenzene	Ave	0.7096	0.6563		9.25	10.0	-7.5	30.0
Ethylbenzene	Ave	1.056	0.9917		9.39	10.0	-6.1	30.0
m-Xylene & p-Xylene	Ave	0.4329	0.3974		18.4	20.0	-8.2	30.0
o-Xylene	Ave	0.4445	0.4063		9.14	10.0	-8.6	30.0
Styrene	Ave	0.6022	0.5786		9.61	10.0	-3.9	30.0
Bromoform	Ave	0.6385	0.6365		9.97	10.0	-0.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6386	0.6041		9.46	10.0	-5.4	30.0
4-Ethyltoluene	Ave	1.074	1.037		9.65	10.0	-3.5	30.0
2-Chlorotoluene	Ave	0.8875	0.8504		9.58	10.0	-4.2	30.0
1,3,5-Trimethylbenzene	Ave	1.032	0.9462		9.17	10.0	-8.3	30.0
1,2,4-Trimethylbenzene	Ave	0.9904	0.9208		9.30	10.0	-7.0	30.0
1,3-Dichlorobenzene	Ave	0.6271	0.6070		9.68	10.0	-3.2	30.0
1,4-Dichlorobenzene	Ave	0.5750	0.5586		9.71	10.0	-2.8	30.0
1,2-Dichlorobenzene	Ave	0.6609	0.6147		9.30	10.0	-7.0	30.0
1,2,4-Trichlorobenzene	Ave	0.3523	0.3086		8.76	10.0	-12.4	30.0
Hexachlorobutadiene	Ave	0.6696	0.5974		8.92	10.0	-10.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-16916-1
 SDG No.: 200-16916
 Lab Sample ID: CCVC 200-56985/18 Calibration Date: 06/12/2013 22:44
 Instrument ID: G.i Calib Start Date: 05/17/2013 12:12
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 05/17/2013 17:12
 Lab File ID: giew018.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.622	1.723		10.6	10.0	6.2	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.538	1.642		10.7	10.0	6.7	30.0
Chloromethane	Ave	0.3269	0.3145		9.62	10.0	-3.8	30.0
Vinyl chloride	Ave	0.4192	0.3988		9.51	10.0	-4.9	30.0
1,3-Butadiene	Ave	0.2762	0.2504		9.07	10.0	-9.3	30.0
Bromomethane	Ave	0.5654	0.5629		9.95	10.0	-0.4	30.0
Chloroethane	Ave	0.1702	0.1544		9.07	10.0	-9.2	30.0
Vinyl bromide	Ave	0.6682	0.6700		10.0	10.0	0.3	30.0
Trichlorofluoromethane	Ave	1.964	2.123		10.8	10.0	8.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.253	1.277		10.2	10.0	1.9	30.0
1,1-Dichloroethene	Ave	0.5268	0.5132		9.74	10.0	-2.6	30.0
Acetone	Ave	0.6564	0.6653		10.1	10.0	1.4	30.0
Carbon disulfide	Ave	1.533	1.476		9.62	10.0	-3.7	30.0
Isopropanol	Ave	0.4127	0.3568		8.64	10.0	-13.5	30.0
Allyl chloride	Ave	0.3917	0.3535		9.02	10.0	-9.8	30.0
Methylene Chloride	Ave	0.4491	0.4239		9.44	10.0	-5.6	30.0
tert-Butyl alcohol	Ave	0.7538	0.6631		8.79	10.0	-12.0	30.0
Methyl tert-butyl ether	Ave	1.359	1.307		9.62	10.0	-3.8	30.0
1,2-Dichloroethene, trans-	Ave	0.6816	0.6505		9.54	10.0	-4.6	30.0
n-Hexane	Ave	0.5887	0.5256		8.93	10.0	-10.7	30.0
1,1-Dichloroethane	Ave	0.9673	0.8938		9.24	10.0	-7.6	30.0
1,2-Dichloroethene, cis-	Ave	0.8116	0.7816		9.63	10.0	-3.7	30.0
Methyl Ethyl Ketone	Ave	0.3391	0.2598		7.66	10.0	-23.4	30.0
Tetrahydrofuran	Ave	0.0822	0.0759		9.24	10.0	-7.6	30.0
Chloroform	Ave	1.894	1.878		9.92	10.0	-0.8	30.0
Cyclohexane	Ave	0.1738	0.1564		9.00	10.0	-10.0	30.0
1,1,1-Trichloroethane	Ave	0.3811	0.3863		10.1	10.0	1.3	30.0
Carbon tetrachloride	Ave	0.4724	0.4820		10.2	10.0	2.0	30.0
2,2,4-Trimethylpentane	Ave	0.5863	0.5264		8.98	10.0	-10.2	30.0
Benzene	Ave	0.4703	0.4325		9.20	10.0	-8.0	30.0
1,2-Dichloroethane	Ave	0.2306	0.2264		9.81	10.0	-1.9	30.0
n-Heptane	Ave	0.2077	0.1879		9.05	10.0	-9.5	30.0
Trichloroethene	Ave	0.2931	0.3009		10.3	10.0	2.7	30.0
1,2-Dichloropropane	Ave	0.2138	0.2129		9.95	10.0	-0.5	30.0
Methyl methacrylate	Ave	0.1959	0.1940		9.90	10.0	-1.0	30.0
1,4-Dioxane	Ave	0.0860	0.0834		9.70	10.0	-3.0	30.0
Bromodichloromethane	Ave	0.4906	0.5188		10.6	10.0	5.7	30.0
1,3-Dichloropropene, cis-	Ave	0.3410	0.3529		10.3	10.0	3.5	30.0
Methyl isobutyl ketone	Ave	0.3255	0.3251		9.99	10.0	-0.1	30.0
Toluene	Ave	0.5117	0.4726		9.23	10.0	-7.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-16916-1
 SDG No.: 200-16916
 Lab Sample ID: CCVC 200-56985/18 Calibration Date: 06/12/2013 22:44
 Instrument ID: G.i Calib Start Date: 05/17/2013 12:12
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 05/17/2013 17:12
 Lab File ID: gieo018.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropene, trans-	Ave	0.3336	0.3626		10.9	10.0	8.7	30.0
1,1,2-Trichloroethane	Ave	0.2629	0.2567		9.77	10.0	-2.3	30.0
Tetrachloroethene	Ave	0.5451	0.4903		8.99	10.0	-10.0	30.0
Dibromochloromethane	Ave	0.6255	0.6235		9.97	10.0	-0.3	30.0
1,2-Dibromoethane	Ave	0.4874	0.4926		10.1	10.0	1.1	30.0
Chlorobenzene	Ave	0.7096	0.6742		9.50	10.0	-5.0	30.0
Ethylbenzene	Ave	1.056	1.031		9.76	10.0	-2.4	30.0
m-Xylene & p-Xylene	Ave	0.4329	0.4109		19.0	20.0	-5.1	30.0
o-Xylene	Ave	0.4445	0.4165		9.37	10.0	-6.3	30.0
Styrene	Ave	0.6022	0.6089		10.1	10.0	1.1	30.0
Bromoform	Ave	0.6385	0.6690		10.5	10.0	4.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.6386	0.6530		10.2	10.0	2.3	30.0
4-Ethyltoluene	Ave	1.074	1.111		10.3	10.0	3.4	30.0
2-Chlorotoluene	Ave	0.8875	0.9195		10.4	10.0	3.6	30.0
1,3,5-Trimethylbenzene	Ave	1.032	1.001		9.70	10.0	-3.0	30.0
1,2,4-Trimethylbenzene	Ave	0.9904	0.9872		9.97	10.0	-0.3	30.0
1,3-Dichlorobenzene	Ave	0.6271	0.6536		10.4	10.0	4.2	30.0
1,4-Dichlorobenzene	Ave	0.5750	0.6088		10.6	10.0	5.9	30.0
1,2-Dichlorobenzene	Ave	0.6609	0.6621		10.0	10.0	0.2	30.0
1,2,4-Trichlorobenzene	Ave	0.3523	0.3372		9.57	10.0	-4.3	30.0
Hexachlorobutadiene	Ave	0.6696	0.6432		9.60	10.0	-3.9	30.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-16916-1
 SDG No.: 200-16916
 Client Sample ID: _____ Lab Sample ID: MB 200-56985/3
 Matrix: Air Lab File ID: gieo003.d
 Analysis Method: TO15LL/NJ Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 06/12/2013 11:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 56985 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.20	U	0.20	0.0091
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.086
156-60-5	1,2-Dichloroethene, trans-	0.20	U	0.20	0.023
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.023
156-59-2	1,2-Dichloroethene, cis-	0.20	U	0.20	0.084
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.020
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.013
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.018
79-01-6	Trichloroethene	0.20	U	0.20	0.0092
127-18-4	Tetrachloroethene	0.20	U	0.20	0.015

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-16916-1
 SDG No.: 200-16916
 Client Sample ID: _____ Lab Sample ID: LCS 200-56985/4
 Matrix: Air Lab File ID: gieo004.d
 Analysis Method: TO15LL/NJ Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 06/12/2013 11:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 56985 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.201		0.20	0.0091
75-35-4	1,1-Dichloroethene	0.221		0.20	0.086
156-60-5	1,2-Dichloroethene, trans-	0.213		0.20	0.023
75-34-3	1,1-Dichloroethane	0.183	J	0.20	0.023
156-59-2	1,2-Dichloroethene, cis-	0.194	J	0.20	0.084
71-55-6	1,1,1-Trichloroethane	0.204		0.20	0.020
56-23-5	Carbon tetrachloride	0.197	J	0.20	0.013
107-06-2	1,2-Dichloroethane	0.188	J	0.20	0.018
79-01-6	Trichloroethene	0.206		0.20	0.0092
127-18-4	Tetrachloroethene	0.204		0.20	0.015

GC/MS Air Instrument Run Log

Sequence	Standard Traceability	Instrument Information
Target Batch ID: GIE	ISTD Container ID: 248062	Instrument ID: G
Test Method: 7015	CCV Container ID: See comments	Instrument: 5973
ICAL Date: 5/17/13	ICV/LGS Container ID: See comments	Column Type: RTX-624

Analyst / Supervisor Signature(s): Insert signature when specified as project requirement. Otherwise leave this section blank.

Paul D. Single
 See O/P PAD

Injection Time	GC/MS File Name	Summa Can ID	TALS Sample ID	Dilution Factor	Inlet #	Volume (mL)	Operator	Individual Sample Review		Comments
								Internal Std.	Result Conc.	
0946	GIE 001	N/A	BEB	N/A	1	200	PAD	✓	✓	PAD
1032	002	4633	VI6LK		2	40		✓	✓	491727
1122	003	4943	IC-08		2	200		✓	✓	491727
1212	004	4943	-01		3	200		✓	✓	491513
1302	005	5464	-02		4	200		✓	✓	491510
1352	006	5465	-03		5	200		✓	✓	491496
1442	007	5447	ICIS-04		6	200		✓	✓	491507
1532	008	3646	IC-05		7	200		✓	✓	491499
1622	009	3535	-06		8	200		✓	✓	491500
1712	010	3503	-07		1	200		✓	✓	
1801	011	4633	VI6LK		1	200		✓	✓	
1851	012		ICV VI6LK		1	200		✓	✓	
1941	013	5414	ICV		9	200		✓	✓	R
2031	014	4633	VI6LK		1	200		✓	✓	
2121	015	5414	ICV		9	200		✓	✓	PAD 489438
2211	016	4633	VI6LK		1	200		✓	✓	

PAD
 5/20/13

Legend: C=Complete R=Reanalyze ↑=High ↓=Low ✓=Reviewed and Acceptable

GC/MS Air Instrument Run Log

Sequence	Standard Traceability	Instrument Information
Target Batch ID: G1E0	ISTD Container ID: 248062	Instrument ID: G
Start Date: 6/12/13	Time: 0922	Instrument: 5973
Test Method: TO15-LL-MS	End Date: 6/13/13	Time: 0922
ICAL Date:	ICVILCS Container ID: See Comments	Column Type: RTX-624

Analyst / Supervisor Signature(s): *Benjamin Lopez* *6/12/13* *Kristine Duester* *6/17/13*
Benjamin Lopez

Injection Time	GC/MS File Name	Summa Can ID	TALS Sample ID	Dilution Factor	Inlet #	Volume (mL)	Operator	Individual Sample Review			Comments
								Internal Std.	Result Conc.	Primary Anal.	
0922	G1E0 01	N/A	BFB	N/A	1	200	BL	✓	✓	BL	All Good
1010	02	3155	CCV	1	2	200		✓	✓		All Good
1100	03	4632	NIB	1	3	200		✓	✓		All Good
1147	04	4943	CCS-0.2	1	4	200		✓	✓		491247
1235	05	5464	CCS-0.5	1	5	200		✓	✓		491513
1322	06	5465	CCS-5.0	1	6	200		✓	✓		491510
1409	07	4646	16925-8	1	7	20		✓	✓		
1456	08	3545	16916-1	10	8	20		✓	✓		
1543	09	4656	16916-2	10	9	20		✓	✓		
1630	10	2780	16943-1	1	10	200		✓	✓		
1717	11	3527	16943-3	1	11	200		✓	✓		
1803	12	2720	16943-5	1	12	200		✓	✓		
1850	13	2522	16943-7	1	13	200		✓	✓		
1937	14	3146	16943-2	10	14	20		✓	✓		
2024	15	5119	16943-4	50	15	20		✓	✓		CDF=5.00
2111	16	2948	16943-6	26.5	16	20		✓	✓		CDF=26.45
2157	17	3155	VIBIK	N/A	4	200		✓	✓		
2244	18	3155	CCVC	N/A	1	200		✓	✓		
2331	19	3155	CCVC	1	1	200		✓	✓		

BL
6/13/13

Legend: C=Complete • R=Reanalyze • ↑ = High • ↓ = Low • ✓ = Reviewed and Acceptable

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-16916-1

SDG No.: 200-16916

Instrument ID: G.i Start Date: 05/17/2013 09:46

Analysis Batch Number: 55733 End Date: 05/17/2013 22:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-55733/1		05/17/2013 09:46	1	gie001.d	RTX-624 0.32 (mm)
VIBLK 200-55733/2		05/17/2013 10:32	1		RTX-624 0.32 (mm)
ZZZZZ		05/17/2013 11:22	1		RTX-624 0.32 (mm)
IC 200-55733/4		05/17/2013 12:12	1	gie004.d	RTX-624 0.32 (mm)
IC 200-55733/5		05/17/2013 13:02	1	gie005.d	RTX-624 0.32 (mm)
IC 200-55733/6		05/17/2013 13:52	1	gie006.d	RTX-624 0.32 (mm)
ICIS 200-55733/7		05/17/2013 14:42	1	gie007.d	RTX-624 0.32 (mm)
IC 200-55733/8		05/17/2013 15:32	1	gie008.d	RTX-624 0.32 (mm)
IC 200-55733/9		05/17/2013 16:22	1	gie009.d	RTX-624 0.32 (mm)
IC 200-55733/10		05/17/2013 17:12	1	gie010.d	RTX-624 0.32 (mm)
VIBLK 200-55733/11		05/17/2013 18:01	1		RTX-624 0.32 (mm)
VIBLK 200-55733/12		05/17/2013 18:51	1		RTX-624 0.32 (mm)
ICV 200-55733/13		05/17/2013 19:41	1		RTX-624 0.32 (mm)
VIBLK 200-55733/14		05/17/2013 20:31	1		RTX-624 0.32 (mm)
ICV 200-55733/15		05/17/2013 21:21	1	gie015.d	RTX-624 0.32 (mm)
VIBLK 200-55733/16		05/17/2013 22:11	1		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-16916-1

SDG No.: 200-16916

Instrument ID: G.i Start Date: 06/12/2013 09:22

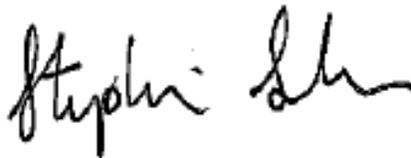
Analysis Batch Number: 56985 End Date: 06/12/2013 23:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-56985/1		06/12/2013 09:22	1	gieo001.d	RTX-624 0.32 (mm)
CCVIS 200-56985/2		06/12/2013 10:10	1	gieo002.d	RTX-624 0.32 (mm)
MB 200-56985/3		06/12/2013 11:00	1	gieo003.d	RTX-624 0.32 (mm)
LCS 200-56985/4		06/12/2013 11:47	1	gieo004.d	RTX-624 0.32 (mm)
LCS 200-56985/5		06/12/2013 12:35	1	gieo005.d	RTX-624 0.32 (mm)
LCS 200-56985/6		06/12/2013 13:22	1	gieo006.d	RTX-624 0.32 (mm)
ZZZZZ		06/12/2013 14:09	1		RTX-624 0.32 (mm)
200-16916-1	SG060613-SGP-01	06/12/2013 14:56	10	gieo008.d	RTX-624 0.32 (mm)
200-16916-2	AA060613-SGP-01	06/12/2013 15:43	10	gieo009.d	RTX-624 0.32 (mm)
ZZZZZ		06/12/2013 16:30	1		RTX-624 0.32 (mm)
ZZZZZ		06/12/2013 17:17	1		RTX-624 0.32 (mm)
ZZZZZ		06/12/2013 18:03	1		RTX-624 0.32 (mm)
ZZZZZ		06/12/2013 18:50	1		RTX-624 0.32 (mm)
ZZZZZ		06/12/2013 19:37	10		RTX-624 0.32 (mm)
ZZZZZ		06/12/2013 20:24	50		RTX-624 0.32 (mm)
ZZZZZ		06/12/2013 21:11	265		RTX-624 0.32 (mm)
VIBLK 200-56985/17		06/12/2013 21:57	1		RTX-624 0.32 (mm)
CCVC 200-56985/18		06/12/2013 22:44	1	gieo018.d	RTX-624 0.32 (mm)
CCVC 200-56985/19		06/12/2013 23:31	1		RTX-624 0.32 (mm)

ANALYTICAL REPORT

Job Number: 200-17825-1
Job Description: POM/VI SAMPLING

For:
URS Corporation
C/O Dupont
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark, DE 19713
Attention: Ms. Candia Carle



Approved for release.
Stephanie D Sanders
Project Manager I
8/21/2013 10:40 AM

Designee for
Don C Dawicki, Customer Service Manager
30 Community Drive, South Burlington, VT, 05403
(802)660-1990
don.dawicki@testamericainc.com
08/21/2013

cc: Ms. Norma Eichlin

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

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**ANALYTICAL DATA PACKAGE FOR THE
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NEW JERSEY 08625**

Agency/Division:	NA	Bureau/Office:	NA
Project No:	NA	Contract No.:	NA
Laboratory Name:	TestAmerica Laboratories	Laboratory Location:	South Burlington, Vermont
SDG or Batch No.:		NJDEP Certification No.:	VT972
Date of First Sample Receipt:	08/07/2013	Date of Last Sample Receipt:	08/07/2013

Agency Sample Number	Laboratory Sample Number	Sample Location	Date and Time of Collection
AA-080613-SGP-01	200-17825-1	AA-080613-SGP-01	08/06/2013 13:14
SG-080613-SGP-01	200-17825-2	SG-080613-SGP-01	08/06/2013 13:14

I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and in the computer-readable data submitted on disk or electronically has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Laboratory Manager (Typed):	Kirstin Daigle	Date:
Laboratory Manager (Signature):		
Quality Assurance Manager (Typed):	Sara Goff	Date:
Quality Assurance Manager (Signature):		

Air Methods - External Chain of Custody Record/Field Test Data Sheet
New Jersey Department of Environmental Protection

Laboratory Information

Laboratory Name: TestAmerica
 Address: 30 Community Dr. Suite 11
 City/State/Zip: South Burlington, VT 05468
 Phone: 802-660-1990
 FAX: 802-660-1919

Individual Preparing Canister/Containers Name: ERTC CAGNE
 Title: Sample Custodian
 Laboratory Affixed Seal Number: 1500
 Time/Date Sample Shipping Container Sealed: 7/30/13

NJDEP Information

Project Number: A7725690 Bureau: 973-492-7735 Contract Number: A72239
 Sampler's Name: George Nemeth Phone Number: 973-492-7735 Division: 316
 Turnaround Time: 48 hours 7 days 14 days

Sample Identification	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure In Field ("Hg) (Start)	Canister Pressure In Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Outgoing Canister Pressure ("Hg) (Lab)	Incoming Canister Pressure ("Hg) (Lab)	Flow Reg. ID	Can ID	Can Size (L)	Flow Controller Readout (ml/min)	Can Cert ID	Matrix
SG-080213-SGP-01	8/21/13			29.78	29.78			-29.4			4845	1L		66AP	Landfill Vent/Other Specify
SG-080213-SGP-01	8/21/13			29.78	29.78						4482	1L			Soil Gas
AA-080613-SGP-01	8/16/13	13:04	13:14	29.60	29.30	89.4	89.0				4845	1L			Indoor/Ambient Air
SG-080613-SGP-01	8/16/13	13:04	13:14	29.58	29.06	89.4	89.0				4482	1L			Other Specify

Barometric Pressure Start: 29.82 Stop: 29.82

Comments: George Nemeth
FED EX
Jawon

GC/MS Analyst Signature (NJDEP LL-TO-15/25C): _____
 GC Analyst Signature (3C): _____

External Chain of Custody

Relinquished: George Nemeth
 Received: George Nemeth
 Break Seal/Sample: 7/31/13 @ ~1300
8/6/13 @ 1500
8/7/13 0945

Reason for Change of External Custody: Received by lab

Individual Resealing Shipping Container Name: George Nemeth
 Time/Date Sample Shipping Container Resealed: 1430 8/6/13
 Time/Date Sample Shipping Container Opened: 0945 8/7/13
 Time/Date Internal Chain of Custody Initiated on NJDEP Form 077 (Internal Chain of Custody): _____

Individual Opening Sample Shipping Container: 1440 8/7/13
 Title: Sampler
 NJDEP Affixed Seal Number: 50PDI
 Individual Opening Sample Shipping Container: seen

Distribution: White - Original (Sent With Report)
 Pink - NJDEP Field Sampling Personnel
 Yellow - Sampling Custodian Upon Receipt of Shipping Container from Field
 Gold - Sample Custodian for Sample Preparation and Shipment

FedEx US Airbill
Express

FedEx Tracking Number

8750 8335 4748

1 From

Date 08/14/13

Sender's Name George Nemeth

Company E.I. DuPont

Address 2000 Cannonball Rd.

City Pompton Lakes State NJ ZIP 07442

2 Your Internal Billing Reference

3 To

Recipients Name Sample Receiving

Company Test America

Address 30 Community Dr. STELL, SRZ
We cannot deliver to P.O. boxes or P.O. codes.

City South Burlington State VT ZIP 05403

Address HOLD Saturday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.

Address HOLD Saturday
FedEx location address
REQUIRED. NOT available for
FedEx First Overnight.



8750 8335 4748

Form ID No. 0200

4a Express Package Service *To most locations.
FedEx Priority Overnight Next business morning, Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
FedEx 2Day Second business day, Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
FedEx Standard Overnight FedEx First Overnight Earliest next business morning delivery to select locations.
FedEx Express Saver Third business day, Thursday shipments will be delivered on Monday unless SATURDAY Delivery is available.

4b Express Freight Service **To most locations.
FedEx 1Day Freight Next business day, Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
FedEx 2Day Freight Second business day, Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
FedEx 3Day Freight Third business day, Saturday Delivery NOT available.
Packages over 150 lbs.

5 Packaging Includes FedEx Small Pak and FedEx Large Pak.
FedEx Envelope* FedEx Pak* FedEx Tube Other

6 Special Handling and Delivery Signature Options
SATURDAY Delivery NOT available for FedEx Standard Overnight, FedEx Express Saver, or FedEx 3Day Freight.

No Signature Required Package may be left without obtaining a signature for delivery.
Direct Signature Someone at recipient's address has sign for delivery. Fee applies.
Indirect Signature If no one is available at recipient's address, someone at a neighboring address will sign for delivery. Fee applies. Residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

No Yes Shipper's Declaration required. Dangerous goods packaging is required for shipment by air. Fee applies.
Dry Ice Cargo Aircraft Only

7. Payment Bill to:

Sender Recipient Third Party Credit Card Cash/Check
Enter FedEx Acct. No. or Credit Card No. below.
Total Packages 1 Total Weight 2.20 lbs. Total Declared Value* Credit Card Auth.

Your liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

606

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Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 200-17825-1

Login Number: 17825

List Source: TestAmerica Burlington

List Number: 1

Creator: Gagne, Eric M

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	935279
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	AMBIENT
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATT15LLCAL4w_00080	10/16/13	07/19/13		15.463 L	ATTO15CAL6w_00074	155 mL	1,1,1-Trichloroethane	0.20044 ppb v/v
							1,1,2,2-Tetrachloroethane	0.20044 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.20044 ppb v/v
							1,1,2-Trichloroethane	0.20044 ppb v/v
							1,1-Dichloroethane	0.20044 ppb v/v
							1,1-Dichloroethene	0.20044 ppb v/v
							1,2,4-Trimethylbenzene	0.20044 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20044 ppb v/v
							1,2-Dichlorobenzene	0.20044 ppb v/v
							1,2-Dichloroethane	0.20044 ppb v/v
							1,2-Dichloroethene, cis-	0.20044 ppb v/v
							1,2-Dichloroethene, trans-	0.20044 ppb v/v
							1,2-Dichloropropane	0.20044 ppb v/v
							1,3,5-Trimethylbenzene	0.20044 ppb v/v
							1,3-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dichlorobenzene	0.20044 ppb v/v
							2-Chlorotoluene	0.20044 ppb v/v
							3-Chloro-1-propene	0.20044 ppb v/v
							4-Ethyltoluene	0.20044 ppb v/v
							Benzene	0.20044 ppb v/v
Bromoform	0.20044 ppb v/v							
Bromomethane	0.20044 ppb v/v							
Butadiene	0.20044 ppb v/v							
Carbon tetrachloride	0.20044 ppb v/v							
Chlorobenzene	0.20044 ppb v/v							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorodibromomethane	0.20044 ppb v/v
							Chloroform	0.20044 ppb v/v
							cis-1,3-Dichloropropene	0.20044 ppb v/v
							Cyclohexane	0.20044 ppb v/v
							Dichlorobromomethane	0.20044 ppb v/v
							Ethylbenzene	0.20044 ppb v/v
							Ethylene Dibromide	0.20044 ppb v/v
							Hexachlorobutadiene	0.20044 ppb v/v
							Hexane	0.20044 ppb v/v
							Isooctane	0.20044 ppb v/v
							m-Xylene & p-Xylene	0.400879 ppb v/v
							Methyl tert-butyl ether	0.20044 ppb v/v
							n-Heptane	0.20044 ppb v/v
							o-Xylene	0.20044 ppb v/v
							Styrene	0.20044 ppb v/v
							Tetrachloroethene	0.20044 ppb v/v
							Toluene	0.20044 ppb v/v
							trans-1,3-Dichloropropene	0.20044 ppb v/v
							Trichloroethene	0.20044 ppb v/v
							Trichlorofluoromethane	0.20044 ppb v/v
							Vinyl bromide	0.20044 ppb v/v
							Vinyl chloride	0.20044 ppb v/v
.ATTO15CAL6w_00074	10/16/13	07/18/13	DI WATER, Lot 2874	15.463 L	ATTO15CALSTKi_00044	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
..ATTO15CALSTKi_00044	10/16/13	07/16/13	DI WATER, Lot 1014	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroform	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
...ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroform	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL2w_00095	10/16/13	07/19/13	DI WATER, Lot 3649	15.463 L	ATTO15CAL6w_00074	387 mL	1,1,1-Trichloroethane	0.500453 ppb v/v
							1,1,2,2-Tetrachloroethane	0.500453 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.500453 ppb v/v
							1,1,2-Trichloroethane	0.500453 ppb v/v
							1,1-Dichloroethane	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	0.500453 ppb v/v
							1,2,4-Trichlorobenzene	0.500453 ppb v/v
							1,2,4-Trimethylbenzene	0.500453 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.500453 ppb v/v
							1,2-Dichlorobenzene	0.500453 ppb v/v
							1,2-Dichloroethane	0.500453 ppb v/v
							1,2-Dichloroethene, cis-	0.500453 ppb v/v
							1,2-Dichloroethene, trans-	0.500453 ppb v/v
							1,2-Dichloropropane	0.500453 ppb v/v
							1,3,5-Trimethylbenzene	0.500453 ppb v/v
							1,3-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dichlorobenzene	0.500453 ppb v/v
							2-Butanone (MEK)	0.500453 ppb v/v
							2-Chlorotoluene	0.500453 ppb v/v
							3-Chloro-1-propene	0.500453 ppb v/v
							4-Ethyltoluene	0.500453 ppb v/v
							4-Methyl-2-pentanone (MIBK)	0.500453 ppb v/v
							Benzene	0.500453 ppb v/v
							Bromoform	0.500453 ppb v/v
							Bromomethane	0.500453 ppb v/v
							Butadiene	0.500453 ppb v/v
							Carbon disulfide	0.500453 ppb v/v
							Carbon tetrachloride	0.500453 ppb v/v
							Chlorobenzene	0.500453 ppb v/v
							Chlorodibromomethane	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	0.500453 ppb v/v
							Chloroform	0.500453 ppb v/v
							Chloromethane	0.500453 ppb v/v
							cis-1,3-Dichloropropene	0.500453 ppb v/v
							Cyclohexane	0.500453 ppb v/v
							Dichlorobromomethane	0.500453 ppb v/v
							Dichlorodifluoromethane	0.500453 ppb v/v
							Ethylbenzene	0.500453 ppb v/v
							Ethylene Dibromide	0.500453 ppb v/v
							Hexachlorobutadiene	0.500453 ppb v/v
							Hexane	0.500453 ppb v/v
							Isooctane	0.500453 ppb v/v
							m-Xylene & p-Xylene	1.00091 ppb v/v
							Methyl methacrylate	0.500453 ppb v/v
							Methyl tert-butyl ether	0.500453 ppb v/v
							Methylene Chloride	0.500453 ppb v/v
							n-Heptane	0.500453 ppb v/v
							o-Xylene	0.500453 ppb v/v
							Styrene	0.500453 ppb v/v
							Tetrachloroethene	0.500453 ppb v/v
							Toluene	0.500453 ppb v/v
							trans-1,3-Dichloropropene	0.500453 ppb v/v
							Trichloroethene	0.500453 ppb v/v
							Trichlorofluoromethane	0.500453 ppb v/v
							Vinyl bromide	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	0.500453 ppb v/v
.ATTO15CAL6w_00074	10/16/13	07/18/13	DI WATER, Lot 2874	15.463 L	ATTO15CALSTKi_00044	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
..ATTO15CALSTKi_00044	10/16/13	07/16/13	DI WATER, Lot 1014	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
...ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Benzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL3w_00111	10/16/13	07/18/13	DI WATER, Lot 2640	15.463 L	ATTO15CALSTKi_00044	386 mL	1,1,1-Trichloroethane	4.99256 ppb v/v
							1,1,2,2-Tetrachloroethane	4.99256 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	4.99256 ppb v/v
							1,1,2-Trichloroethane	4.99256 ppb v/v
							1,1-Dichloroethane	4.99256 ppb v/v
							1,1-Dichloroethene	4.99256 ppb v/v
							1,2,4-Trichlorobenzene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	4.99256 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	4.99256 ppb v/v
							1,2-Dichlorobenzene	4.99256 ppb v/v
							1,2-Dichloroethane	4.99256 ppb v/v
							1,2-Dichloroethene, cis-	4.99256 ppb v/v
							1,2-Dichloroethene, trans-	4.99256 ppb v/v
							1,2-Dichloropropane	4.99256 ppb v/v
							1,3,5-Trimethylbenzene	4.99256 ppb v/v
							1,3-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dioxane	4.99256 ppb v/v
							2-Butanone (MEK)	4.99256 ppb v/v
							2-Chlorotoluene	4.99256 ppb v/v
							2-Methyl-2-propanol	4.99256 ppb v/v
							3-Chloro-1-propene	4.99256 ppb v/v
							4-Ethyltoluene	4.99256 ppb v/v
							4-Methyl-2-pentanone (MIBK)	4.99256 ppb v/v
							Acetone	4.99256 ppb v/v
							Benzene	4.99256 ppb v/v
							Bromoform	4.99256 ppb v/v
							Bromomethane	4.99256 ppb v/v
							Butadiene	4.99256 ppb v/v
							Carbon disulfide	4.99256 ppb v/v
							Carbon tetrachloride	4.99256 ppb v/v
							Chlorobenzene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorodibromomethane	4.99256 ppb v/v
							Chloroethane	4.99256 ppb v/v
							Chloroform	4.99256 ppb v/v
							Chloromethane	4.99256 ppb v/v
							cis-1,3-Dichloropropene	4.99256 ppb v/v
							Cyclohexane	4.99256 ppb v/v
							Dichlorobromomethane	4.99256 ppb v/v
							Dichlorodifluoromethane	4.99256 ppb v/v
							Ethylbenzene	4.99256 ppb v/v
							Ethylene Dibromide	4.99256 ppb v/v
							Hexachlorobutadiene	4.99256 ppb v/v
							Hexane	4.99256 ppb v/v
							Isooctane	4.99256 ppb v/v
							Isopropyl alcohol	4.99256 ppb v/v
							m-Xylene & p-Xylene	9.98513 ppb v/v
							Methyl methacrylate	4.99256 ppb v/v
							Methyl tert-butyl ether	4.99256 ppb v/v
							Methylene Chloride	4.99256 ppb v/v
							n-Heptane	4.99256 ppb v/v
							o-Xylene	4.99256 ppb v/v
							Styrene	4.99256 ppb v/v
							Tetrachloroethene	4.99256 ppb v/v
							Tetrahydrofuran	4.99256 ppb v/v
							Toluene	4.99256 ppb v/v
							trans-1,3-Dichloropropene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	4.99256 ppb v/v
							Trichlorofluoromethane	4.99256 ppb v/v
							Vinyl bromide	4.99256 ppb v/v
							Vinyl chloride	4.99256 ppb v/v
.ATTO15CALSTKi_00044	10/16/13	07/16/13	DI WATER, Lot 1014	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL4w_00285	10/16/13	07/18/13	DI WATER, Lot 3631	15.463 L	ATTO15CALSTKi_00044	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, cis-	9.99806 ppb v/v
							1,2-Dichloroethene, trans-	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2-Butanone (MEK)	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v
							2-Methyl-2-propanol	9.99806 ppb v/v
							3-Chloro-1-propene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							4-Methyl-2-pentanone (MIBK)	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Butadiene	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chlorodibromomethane	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dichlorobromomethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Ethylene Dibromide	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Hexane	9.99806 ppb v/v
							Isooctane	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m-Xylene & p-Xylene	19.9961 ppb v/v
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							o-Xylene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl bromide	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
.ATTO15CALSTKi_00044	10/16/13	07/16/13	DI WATER, Lot 1014	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL5w_00037	06/25/13	04/10/13	DI WATER, Lot 3155	15.463 L	ATTO15CALSTKi_00044	1160 mL	1,1,1-Trichloroethane	15.0036 ppb v/v
							1,1,2,2-Tetrachloroethane	15.0036 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	15.0036 ppb v/v
							1,1-Dichloroethane	15.0036 ppb v/v
							1,1-Dichloroethene	15.0036 ppb v/v
							1,2,4-Trichlorobenzene	15.0036 ppb v/v
							1,2,4-Trimethylbenzene	15.0036 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	15.0036 ppb v/v
							1,2-Dichlorobenzene	15.0036 ppb v/v
							1,2-Dichloroethane	15.0036 ppb v/v
							1,2-Dichloroethene, cis-	15.0036 ppb v/v
							1,2-Dichloroethene, trans-	15.0036 ppb v/v
							1,2-Dichloropropane	15.0036 ppb v/v
							1,3,5-Trimethylbenzene	15.0036 ppb v/v
							1,3-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dioxane	15.0036 ppb v/v
							2-Butanone (MEK)	15.0036 ppb v/v
							2-Chlorotoluene	15.0036 ppb v/v
							2-Methyl-2-propanol	15.0036 ppb v/v
							3-Chloro-1-propene	15.0036 ppb v/v
							4-Ethyltoluene	15.0036 ppb v/v
							4-Methyl-2-pentanone (MIBK)	15.0036 ppb v/v
							Acetone	15.0036 ppb v/v
							Benzene	15.0036 ppb v/v
							Bromoform	15.0036 ppb v/v
							Bromomethane	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butadiene	15.0036 ppb v/v
							Carbon disulfide	15.0036 ppb v/v
							Carbon tetrachloride	15.0036 ppb v/v
							Chlorobenzene	15.0036 ppb v/v
							Chlorodibromomethane	15.0036 ppb v/v
							Chloroethane	15.0036 ppb v/v
							Chloroform	15.0036 ppb v/v
							Chloromethane	15.0036 ppb v/v
							cis-1,3-Dichloropropene	15.0036 ppb v/v
							Cyclohexane	15.0036 ppb v/v
							Dichlorobromomethane	15.0036 ppb v/v
							Dichlorodifluoromethane	15.0036 ppb v/v
							Ethylbenzene	15.0036 ppb v/v
							Ethylene Dibromide	15.0036 ppb v/v
							Hexachlorobutadiene	15.0036 ppb v/v
							Hexane	15.0036 ppb v/v
							Isooctane	15.0036 ppb v/v
							Isopropyl alcohol	15.0036 ppb v/v
							m-Xylene & p-Xylene	30.0071 ppb v/v
							Methyl methacrylate	15.0036 ppb v/v
							Methyl tert-butyl ether	15.0036 ppb v/v
							Methylene Chloride	15.0036 ppb v/v
							n-Heptane	15.0036 ppb v/v
							o-Xylene	15.0036 ppb v/v
							Styrene	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	15.0036 ppb v/v
							Tetrahydrofuran	15.0036 ppb v/v
							Toluene	15.0036 ppb v/v
							trans-1,3-Dichloropropene	15.0036 ppb v/v
							Trichloroethene	15.0036 ppb v/v
							Trichlorofluoromethane	15.0036 ppb v/v
							Vinyl bromide	15.0036 ppb v/v
							Vinyl chloride	15.0036 ppb v/v
.ATTO15CALSTKi_00044	10/16/13	07/16/13	DI WATER, Lot 1014	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL6w_00074	10/16/13	07/18/13	DI WATER, Lot 2874	15.463 L	ATTO15CALSTKi_00044	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
.ATTO15CALSTKi_00044	10/16/13	07/16/13	DI WATER, Lot 1014	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	1 ppm v/v
ATTO15CAL7w_00039	10/16/13	07/18/13	DI WATER, Lot 3413	15.463 L	ATTO15CALSTKi_00044	3092 mL	1,1,1-Trichloroethane	39.9922 ppb v/v
							1,1,2,2-Tetrachloroethane	39.9922 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	39.9922 ppb v/v
							1,1,2-Trichloroethane	39.9922 ppb v/v
							1,1-Dichloroethane	39.9922 ppb v/v
							1,1-Dichloroethene	39.9922 ppb v/v
							1,2,4-Trichlorobenzene	39.9922 ppb v/v
							1,2,4-Trimethylbenzene	39.9922 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	39.9922 ppb v/v
							1,2-Dichlorobenzene	39.9922 ppb v/v
							1,2-Dichloroethane	39.9922 ppb v/v
							1,2-Dichloroethene, cis-	39.9922 ppb v/v
							1,2-Dichloroethene, trans-	39.9922 ppb v/v
							1,2-Dichloropropane	39.9922 ppb v/v
							1,3,5-Trimethylbenzene	39.9922 ppb v/v
							1,3-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dioxane	39.9922 ppb v/v
							2-Butanone (MEK)	39.9922 ppb v/v
							2-Chlorotoluene	39.9922 ppb v/v
							2-Methyl-2-propanol	39.9922 ppb v/v
							3-Chloro-1-propene	39.9922 ppb v/v
							4-Ethyltoluene	39.9922 ppb v/v
							4-Methyl-2-pentanone (MIBK)	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	39.9922 ppb v/v
							Benzene	39.9922 ppb v/v
							Bromoform	39.9922 ppb v/v
							Bromomethane	39.9922 ppb v/v
							Butadiene	39.9922 ppb v/v
							Carbon disulfide	39.9922 ppb v/v
							Carbon tetrachloride	39.9922 ppb v/v
							Chlorobenzene	39.9922 ppb v/v
							Chlorodibromomethane	39.9922 ppb v/v
							Chloroethane	39.9922 ppb v/v
							Chloroform	39.9922 ppb v/v
							Chloromethane	39.9922 ppb v/v
							cis-1,3-Dichloropropene	39.9922 ppb v/v
							Cyclohexane	39.9922 ppb v/v
							Dichlorobromomethane	39.9922 ppb v/v
							Dichlorodifluoromethane	39.9922 ppb v/v
							Ethylbenzene	39.9922 ppb v/v
							Ethylene Dibromide	39.9922 ppb v/v
							Hexachlorobutadiene	39.9922 ppb v/v
							Hexane	39.9922 ppb v/v
							Isooctane	39.9922 ppb v/v
							Isopropyl alcohol	39.9922 ppb v/v
							m-Xylene & p-Xylene	79.9845 ppb v/v
							Methyl methacrylate	39.9922 ppb v/v
							Methyl tert-butyl ether	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	39.9922 ppb v/v
							n-Heptane	39.9922 ppb v/v
							o-Xylene	39.9922 ppb v/v
							Styrene	39.9922 ppb v/v
							Tetrachloroethene	39.9922 ppb v/v
							Tetrahydrofuran	39.9922 ppb v/v
							Toluene	39.9922 ppb v/v
							trans-1,3-Dichloropropene	39.9922 ppb v/v
							Trichloroethene	39.9922 ppb v/v
							Trichlorofluoromethane	39.9922 ppb v/v
							Vinyl bromide	39.9922 ppb v/v
							Vinyl chloride	39.9922 ppb v/v
.ATTO15CALSTKi_00044	10/16/13	07/16/13	DI WATER, Lot 1014	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.: _____

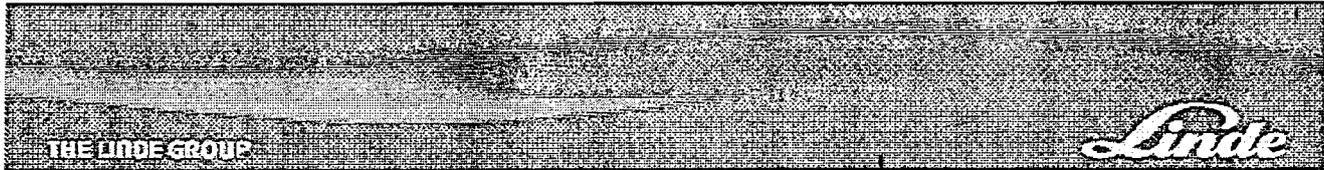
Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CISs_00005	11/15/15		Spectra, Lot CC-250115			(Purchased Reagent)	1,4-Difluorobenzene	100 ppb v/v
							Chlorobenzene-d5	100 ppb v/v
							Chlorobromomethane	100 ppb v/v
ATTO15LCSW_00309	10/17/13	07/21/13	DI WATER, Lot 2571	15.463 L	ATTO15LCSSTKi_00040	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, cis-	9.99806 ppb v/v
							1,2-Dichloroethene, trans-	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
.ATTO15LCSSTKi_00040	10/17/13	07/17/13	DI WATER, Lot 4985	37.5 L	ATTO15LCSSs_00011	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15LCSSs_00011	12/05/13		Spectra Gases, Lot CC-230119			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Trichloroethene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-17825-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	1 ppm v/v



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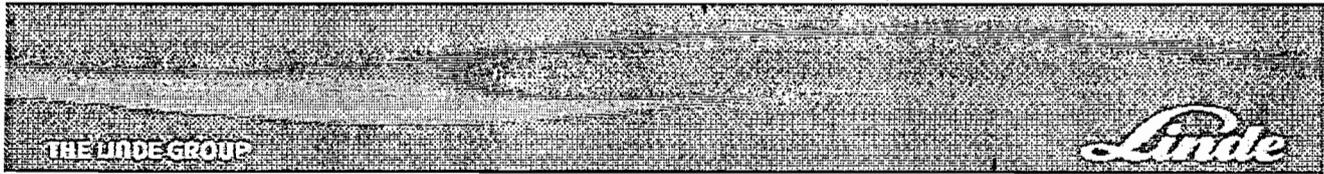
439415

ID: ATTO15CALs_00009
Exp:12/05/13 Pripd:WRD Opn:12/05/12
TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#:	109735129	Cylinder Size:	2A (8" X 47.5")
Production#:	2851880	Cylinder # :	CC-250179
Certification Date:	Dec-05-2012	Cylinder Pressure:	1100 psig
P.O.# :	Verbal-Recert	Cylinder Valve:	CGA 350 / Steel
Blend Type:	CERTIFIED	Cylinder Volume:	29.5 Liter
Material#:	14004443	Cylinder Material:	Aluminum
Traceability:	NIST by weight	Gas Volume:	2200 Liter
Expiration Date:	Dec-05-2013	Blend Tolerance:	10% Relative
Do NOT use under:	150 psig	Analytical Accuracy:	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Propylene	115-07-1	1.00 ppm	1.04 ppm
Chlorodifluoromethane	75-45-6	1.00 ppm	1.02 ppm
Freon-12	75-71-8	1.00 ppm	0.97 ppm
Chloromethane	74-87-3	1.00 ppm	0.98 ppm
Freon-114	76-14-2	1.00 ppm	0.98 ppm
Vinyl Chloride	75-01-4	1.00 ppm	0.98 ppm
1,3-Butadiene	106-99-0	1.00 ppm	1.01 ppm
Methanol (No Stability Guarantee)	67-56-1	1.00 ppm	0.94 ppm
n-Butane	106-97-8	1.00 ppm	1.03 ppm
Bromomethane	74-83-9	1.00 ppm	1.00 ppm
Chloroethane	75-00-3	1.00 ppm	0.98 ppm
Vinyl Bromide	593-60-2	1.00 ppm	1.06 ppm
Acetonitrile (Analytical Accuracy +/-10%)		1.00 ppm	1.02 ppm
Acrolein (Analytical Accuracy +/-10%)		1.00 ppm	1.10 ppm
Isopentane	78-78-4	1.00 ppm	1.06 ppm
Acetone	67-64-1	1.00 ppm	1.06 ppm
Freon-11	75-69-4	1.00 ppm	0.95 ppm
Isopropyl Alcohol	67-63-0	1.00 ppm	1.01 ppm
Acrylonitrile	107-13-1	1.00 ppm	1.06 ppm
n-Pentane	109-66-0	1.00 ppm	1.06 ppm
Ethyl Ether	60-29-7	1.00 ppm	1.09 ppm
1,1-Dichloroethene	75-35-4	1.00 ppm	0.98 ppm
Carbon Disulfide (Analytical Accuracy +/- 10%)	75-15-0	1.00 ppm	1.03 ppm
Methylene Chloride	75-09-2	1.00 ppm	1.03 ppm
Tert-Butanol		1.00 ppm	1.03 ppm
3-Chloropropene	107-05-1	1.00 ppm	1.03 ppm
Freon-113	76-13-1	1.00 ppm	0.97 ppm
Trans-1,2-Dichloroethene	156-60-5	1.00 ppm	1.04 ppm
1,1-Dichloroethane	75-34-3	1.00 ppm	1.02 ppm
Methyl Tert Butyl Ether	1634-04-4	1.00 ppm	1.04 ppm



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439415

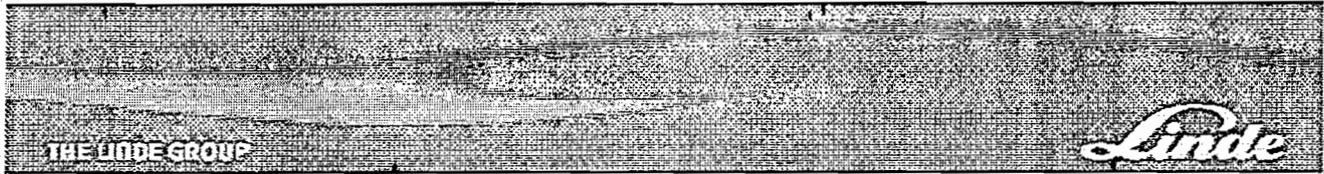
ID: ATTO15CALs_00009
Exp: 12/05/13 Ppd: WRD Opr: 12/05/12
TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#: 109735129
Production#: 2851880
Certification Date: Dec-05-2012
P.O.# : Verbal-Recert
Blend Type: CERTIFIED
Material#: 14004443
Traceability: NIST by weight
Expiration Date: Dec-05-2013
Do NOT use under: 150 psig

Cylinder Size: 2A (8" X 47.5")
Cylinder # : CC-250179
Cylinder Pressure: 1100 psig
Cylinder Valve: CGA 350 / Steel
Cylinder Volume: 29.5 Liter
Cylinder Material: Aluminum
Gas Volume: 2200 Liter
Blend Tolerance: 10% Relative
Analytical Accuracy: 5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Vinyl Acetate	108-05-4	1.00 ppm	1.03 ppm
Methyl Ethyl Ketone	78-93-3	1.00 ppm	1.09 ppm
Cis-1,2-Dichloroethene	156-59-2	1.00 ppm	1.02 ppm
Hexane	110-54-3	1.00 ppm	1.09 ppm
Chloroform	67-66-3	1.00 ppm	1.04 ppm
Ethyl Acetate	141-78-6	1.00 ppm	1.04 ppm
Tetrahydrofuran	109-99-9	1.00 ppm	1.08 ppm
1,2-Dichloroethane	107-06-2	1.00 ppm	1.04 ppm
1,1,1-Trichloroethane	71-55-6	1.00 ppm	1.02 ppm
Benzene	71-43-2	1.00 ppm	1.04 ppm
1-Butanol	71-36-3	1.00 ppm	1.07 ppm
Carbon Tetrachloride	56-23-5	1.00 ppm	1.05 ppm
Cyclohexane	110-82-7	1.00 ppm	1.06 ppm
Dibromomethane	74-95-3	1.00 ppm	1.05 ppm
1,2-Dichloropropane	78-87-5	1.00 ppm	1.05 ppm
Trichloroethylene	79-01-6	1.00 ppm	1.05 ppm
Bromodichloromethane	75-27-4	1.00 ppm	1.05 ppm
1,4-Dioxane	123-91-1	1.00 ppm	1.05 ppm
2,2,4-Trimethylpentane	540-84-1	1.00 ppm	1.03 ppm
Methyl Methacrylate	80-62-6	1.00 ppm	1.06 ppm
Heptane	142-82-5	1.00 ppm	1.06 ppm
Cis-1,3-Dichloropropene	10061-01-5	1.00 ppm	1.03 ppm
Methyl Isobutyl Ketone	108-10-1	1.00 ppm	1.06 ppm
Trans-1,3-Dichloropropene	10061-02-6	1.00 ppm	1.12 ppm
1,1,2-Trichloroethane	79-00-5	1.00 ppm	1.08 ppm
Toluene	108-88-3	1.00 ppm	1.07 ppm
Methyl Butyl Ketone	591-78-6	1.00 ppm	1.10 ppm
Dibromochloromethane	124-48-1	1.00 ppm	1.09 ppm
1,2-Dibromoethane	106-93-4	1.00 ppm	1.07 ppm
n-Octane	111-65-9	1.00 ppm	1.05 ppm



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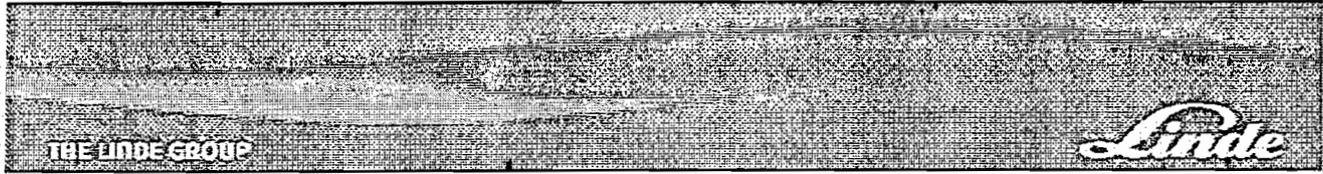
439415

ID: ATTO15CALs_00009
Exp: 12/05/13 Prpd: WRD Opm: 12/05/12
TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#:	109735129	Cylinder Size:	2A (8" X 47.5")
Production#:	2851880	Cylinder # :	CC-250179
Certification Date:	Dec-05-2012	Cylinder Pressure:	1100 psig
P.O.# :	Verbal-Recert	Cylinder Valve:	CGA 350 / Steel
Blend Type:	CERTIFIED	Cylinder Volume:	29.5 Liter
Material#:	14004443	Cylinder Material:	Aluminum
Traceability:	NIST by weight	Gas Volume:	2200 Liter
Expiration Date:	Dec-05-2013	Blend Tolerance:	10% Relative
Do NOT use under:	150 psig	Analytical Accuracy:	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Tetrachloroethylene	127-18-4	1.00 ppm	1.00 ppm
Chlorobenzene	108-90-7	1.00 ppm	1.09 ppm
Ethylbenzene	100-41-4	1.00 ppm	1.06 ppm
p-xylene	106-42-3	1.00 ppm	1.05 ppm
m-xylene	108-38-3	1.00 ppm	1.05 ppm
Bromoform	75-25-2	1.00 ppm	1.05 ppm
Styrene	100-42-5	1.00 ppm	1.08 ppm
o-xylene	95-47-6	1.00 ppm	1.08 ppm
1,1,2,2-Tetrachloroethane	79-34-5	1.00 ppm	1.08 ppm
1,2,3-Trichloropropane	96-18-4	1.00 ppm	1.05 ppm
Nonane	111-84-2	1.00 ppm	1.03 ppm
Cumene	98-82-8	1.00 ppm	1.05 ppm
2-Chlorotoluene	95-49-8	1.00 ppm	1.08 ppm
n-Propylbenzene	103-65-1	1.00 ppm	1.00 ppm
4-Ethyltoluene	622-96-8	1.00 ppm	1.07 ppm
1,3,5-Trimethylbenzene	108-67-8	1.00 ppm	1.07 ppm
alpha-Methyl Styrene (no stability guarantee)	98-83-9	1.00 ppm	1.03 ppm
Tert-Butyl Benzene	98-06-6	1.00 ppm	1.05 ppm
1,2,4-Trimethylbenzene	95-63-6	1.00 ppm	1.05 ppm
1,3-Dichlorobenzene	541-73-1	1.00 ppm	1.09 ppm
Benzyl Chloride (Analytical Accuracy +/- 10%)	100-44-7	1.00 ppm	1.09 ppm
n-Decane	124-18-5	1.00 ppm	1.05 ppm
1,4-Dichlorobenzene	106-46-7	1.00 ppm	1.05 ppm
Sec-Butyl Benzene	135-98-8	1.00 ppm	1.02 ppm
4-Isopropyltoluene	99-87-6	1.00 ppm	1.02 ppm
1,2-Dichlorobenzene	95-50-1	1.00 ppm	1.10 ppm
n-Butyl Benzene	104-51-8	1.00 ppm	1.04 ppm
n-Undecane	1120-21-4	1.00 ppm	0.97 ppm



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439415

ID: ATTO15CALs_00009
Exp:12/05/13 Prep:WRD Opr:12/05/12
TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#:	109735129	Cylinder Size:	2A (8" X 47.5")
Production#:	2851880	Cylinder # :	CC-250179
Certification Date:	Dec-05-2012	Cylinder Pressure:	1100 psig
P.O.# :	Verbal-Recert	Cylinder Valve:	CGA 350 / Steel
Blend Type:	CERTIFIED	Cylinder Volume:	29.5 Liter
Material#:	14004443	Cylinder Material:	Aluminum
Traceability:	NIST by weight	Gas Volume:	2200 Liter
Expiration Date:	Dec-05-2013	Blend Tolerance:	10% Relative
Do NOT use under:	150 psig	Analytical Accuracy:	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
1,2,4-Trichlorobenzene	120-82-1	1.00 ppm	1.08 ppm
Naphthalene (Analytical Accuracy +/- 10%)	91-20-3	1.00 ppm	1.03 ppm
n-Dodecane	112-40-3	1.00 ppm	0.95 ppm
1,2,3-Trichlorobenzene	87-61-6	1.00 ppm	1.05 ppm
Hexachloro-1,3-Butadiene	87-68-3	1.00 ppm	1.09 ppm
Nitrogen	7727-37-9	Balance	Balance

ANALYST: *Lou Lorenzetti*
Lou Lorenzetti

DATE: Dec-05-2012



Spectra Gases, Inc.

3434 Route 22 West, Branchburg, New Jersey 08876 USA

ISO 9001:2000

Recut AT 02-010-05 11/10/08 -> 11/10/09

-CS

Corporate Cal Mix.

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208 South Park Drive, Suite 1
Colchester, VT 05446
PAGE: 1 of 4
Exp 1/6/10
MTP 3/2/09

AT 0200614 Lot # 2426

CERTIFICATE OF ANALYSIS

1/9/06 DWW

SGI ORDER #: 0082390
ITEM#: 1
CERTIFICATION DATE: 12/28/2005
P.O.#: 2129987
BLEND TYPE: CERTIFIED
CYLINDER #: CC-230119
CYLINDER PRES: 2000 psig
CYLINDER VALVE: CGA 350
PRODUCT EXPIRATION DATE: 12/28/2006
Recut 1/12/07



439437
ID: ATTO15LCSs_00011
Exp: 12/05/13 Prip: WRD Opn: 12/14/10
TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Propylene	1.00 ppm	1.05 ppm
Freon-22	1.00 ppm	1.04 ppm
Freon-12	1.00 ppm	0.99 ppm
Chloromethane	1.00 ppm	0.99 ppm
Freon-114	1.00 ppm	0.96 ppm
Vinyl Chloride	1.00 ppm	0.99 ppm
1,3-Butadiene	1.00 ppm	1.07 ppm
Methanol (no stability guarantee)	1.00 ppm	1.08 ppm
n-Butane	1.00 ppm	1.03 ppm
Bromomethane	1.00 ppm	0.98 ppm
Chloroethane	1.00 ppm	0.97 ppm
Vinyl Bromide	1.00 ppm	1.05 ppm
Carbon Disulfide (no stability guarantee)	1.00 ppm	1.05 ppm
Acetonitrile	1.00 ppm	1.10 ppm
Acrolien (no stability guarantee)	1.00 ppm	1.06 ppm
Isopentane	1.00 ppm	1.09 ppm
Acetone	1.00 ppm	1.02 ppm
Freon-11	1.00 ppm	1.02 ppm
Isopropyl Alcohol	1.00 ppm	1.05 ppm
Acrylonitrile	1.00 ppm	1.08 ppm
Pentane	1.00 ppm	1.07 ppm
Ethyl Ether	1.00 ppm	1.06 ppm
1,1-Dichloroethene	1.00 ppm	1.09 ppm
Methylene Chloride	1.00 ppm	1.05 ppm
Tert-Butyl Alcohol	1.00 ppm	1.10 ppm
3-Chloropropene	1.00 ppm	1.10 ppm
Freon-113	1.00 ppm	1.07 ppm
Trans-1,2-Dichloroethene	1.00 ppm	1.03 ppm
1,1-Dichloroethane	1.00 ppm	1.04 ppm
Methyl Tert Butyl Ether	1.00 ppm	1.07 ppm



3434 Route 22 West, Branchburg, New Jersey 08876 USA

ISO 9001:2000

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Colchester, VT 05446

PAGE: 2 of 4

**CERTIFICATE
OF
ANALYSIS**

SGI ORDER # :	0082390	CYLINDER # :	CC-230119
ITEM# :	1	CYLINDER PRES:	2000 psig
CERTIFICATION DATE:	12/28/2005	CYLINDER VALVE:	CGA 350
P.O.# :	2129987	PRODUCT EXPIRATION DATE:	12/28/2006
BLEND TYPE:	CERTIFIED		



439437

ID: ATTO15LCSs_00011
Exp:12/05/13 P:R:WRD Opn:12/14/10
TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Vinyl Acetate	1.00 ppm	1.06 ppm
Methyl Ethyl Ketone	1.00 ppm	1.10 ppm
Cis-1,2-Dichloroethene	1.00 ppm	1.05 ppm
Hexane	1.00 ppm	1.10 ppm
Ethyl Acetate	1.00 ppm	1.07 ppm
Chloroform	1.00 ppm	1.07 ppm
Tetrahydrofuran	1.00 ppm	1.09 ppm
1,2-Dichloroethane	1.00 ppm	1.04 ppm
1,1,1-Trichloroethane	1.00 ppm	1.03 ppm
Benzene	1.00 ppm	1.03 ppm
1-Butanol	1.00 ppm	1.10 ppm
Carbon Tetrachloride	1.00 ppm	1.05 ppm
Cyclohexane	1.00 ppm	1.08 ppm
Dibromomethane	1.00 ppm	1.01 ppm
1,2-Dichloropropane	1.00 ppm	1.03 ppm
Trichloroethylene	1.00 ppm	1.04 ppm
Bromodichloromethane	1.00 ppm	1.04 ppm
1,4-Dioxane	1.00 ppm	1.04 ppm
2,2,4-Trimethylpentane	1.00 ppm	1.04 ppm
Methyl Methacrylate	1.00 ppm	1.06 ppm
Heptane	1.00 ppm	1.07 ppm
Cis-1,3-Dichloropropene	1.00 ppm	1.04 ppm
Methyl Isobutyl Ketone	1.00 ppm	1.07 ppm
Trans-1,3-Dichloropropene	1.00 ppm	1.10 ppm
1,1,2-Trichloroethane	1.00 ppm	1.01 ppm
Toluene	1.00 ppm	1.04 ppm
Methyl Butyl Ketone	1.00 ppm	1.08 ppm
Dibromochloromethane	1.00 ppm	1.10 ppm
1,2-Dibromoethane	1.00 ppm	0.99 ppm
n-Octane	1.00 ppm	1.04 ppm



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 208 South Park Drive, Suite 1
 Colchester, VT 05446

PAGE: 3 of 4

**CERTIFICATE
 OF
 ANALYSIS**

SGI ORDER # :	0082390	CYLINDER # :	CC-230119
ITEM# :	1	CYLINDER PRES:	2000 psig
CERTIFICATION DATE:	12/28/2005	CYLINDER VALVE:	CGA 350
P.O.# :	2129987	PRODUCT EXPIRATION DATE:	12/28/2006
BLEND TYPE:	CERTIFIED		



439437
 ID: ATTO15LCSs_00011
 Exp:12/05/13 Prpd:WRD Opn:12/14/10
 TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Tetrachloroethylene	1.00 ppm	1.02 ppm
Chlorobenzene	1.00 ppm	1.03 ppm
Ethylbenzene	1.00 ppm	1.04 ppm
p-Xylene	1.00 ppm	1.03 ppm
m-Xylene	1.00 ppm	1.03 ppm
Bromoform	1.00 ppm	1.03 ppm
Styrene	1.00 ppm	1.03 ppm
O-Xylene	1.00 ppm	1.02 ppm
1,1,2,2-Tetrachloroethane	1.00 ppm	1.02 ppm
1,2,3-Trichloropropane	1.00 ppm	1.04 ppm
Nonane	1.00 ppm	1.04 ppm
Cumene	1.00 ppm	1.07 ppm
2-Chlorotoluene	1.00 ppm	1.09 ppm
n-Propylbenzene	1.00 ppm	1.05 ppm
4-Ethyltoluene	1.00 ppm	1.10 ppm
1,3,5-Trimethylbenzene	1.00 ppm	1.04 ppm
a-Methylstyrene (no stability guarantee)	1.00 ppm	1.06 ppm
Tert-Butylbenzene	1.00 ppm	1.03 ppm
1,2,4-Trimethylbenzene	1.00 ppm	1.04 ppm
1,3-Dichlorobenzene	1.00 ppm	1.07 ppm
Benzyl Chloride (no stability guarantee)	1.00 ppm	1.07 ppm
n-Decane	1.00 ppm	1.03 ppm
1,4-Dichlorobenzene	1.00 ppm	1.01 ppm
Sec-Butylbenzene	1.00 ppm	1.03 ppm
4-Isopropyltoluene	1.00 ppm	1.04 ppm
1,2-Dichlorobenzene	1.00 ppm	1.01 ppm
n-Butylbenzene	1.00 ppm	1.03 ppm
n-Undecane	1.00 ppm	1.06 ppm
1,2,4-Trichlorobenzene	1.00 ppm	1.09 ppm
Napthalene (no stability guarantee)	1.00 ppm	1.10 ppm

SHIPPED FROM: 80 INDUSTRIAL DRIVE ALPHA, NJ. 08865

SHIPPED TO: Severn Trent Labs - Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

PAGE: 4 of 4

**CERTIFICATE
OF
ANALYSIS**

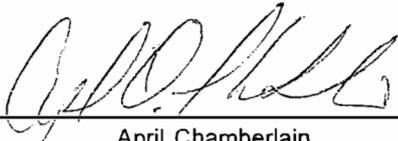
SGI ORDER # :	0082390	CYLINDER # :	CC-230119
ITEM# :	1	CYLINDER PRES:	2000 psig
CERTIFICATION DATE:	12/28/2005	CYLINDER VALVE:	CGA 350
P.O.# :	2129987	PRODUCT EXPIRATION DATE:	12/28/2006
BLEND TYPE:	CERTIFIED		



439437
ID: ATTO15LCSs_00011
Exp:12/05/13 PpPd:WRD Opn:12/14/10
TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
n-Dodecane	1.00 ppm	1.08 ppm
1,2,3-Trichlorobenzene	1.00 ppm	1.03 ppm
Hexachloro-1,3-Butadiene	1.00 ppm	1.06 ppm
Nitrogen	Balance	Balance

ANALYST: 
April Chamberlain

DATE: 12/29/2005



3434 Route 22 West, Branchburg, New Jersey 08876 USA

ISO 9001:2000

SHIPPED FROM: 80 INDUSTRIAL DRIVE ALPHA, NJ. 08865

SHIPPED TO: Severn Trent Labs
208 South Park Drive
Suite 1
Colchester, VT 05446

AT 02 008 13
Recat AT-02-010-13 exp 12/10/08

**CERTIFICATE
OF
ANALYSIS**

Instrument 1

SGI ORDER #: 101783
ITEM#: 1
CERTIFICATION DATE: 12/27/2006
P.O.#: 2172385
BLEND TYPE: CERTIFIED

CYLINDER #: CC-250115
CYLINDER PRES: 2000 psig
CYLINDER VALVE: CGA 350
PRODUCT EXPIRATION DATE: 12/27/2007

ANALYTICAL ACCURACY: +/- 10%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Bromochloromethane	100 ppb	103 ppb
1,4-Difluorobenzene	100 ppb	106 ppb
Chlorobenzene-d5	100 ppb	106 ppb
4-Bromofluorobenzene	100 ppb	107 ppb
Nitrogen	Balance	Balance



248052

ID: ATTO15CISs_00005

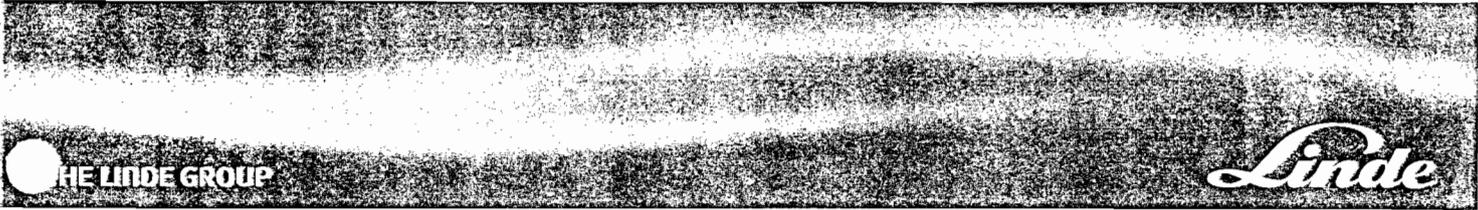
Exp 11/15/15 Prod WFO Date 12/01/10
Internal Standard for Ins

ANALYST:

April Chamberlain
April Chamberlain

DATE:

12/27/2006



SHIPPED TO: Test America-Burlington
 30 Community Drive, Suite 11
 South Burlington, VT 05403

PAGE: 1 of 1

CERTIFICATE OF ANALYSIS

Sales#: 107763353
Production#: 1160209
Certification Date: 15/11/2010
P.O.# : 2391727
Blend Type: CERTIFIED
Material#: 24088974



Cylinder Size: 2A (8" X 47.5")
Cylinder # : CC-344439
Cylinder Pressure: 2000 psig
Cylinder Valve: CGA 350 / Steel
Cylinder Volume: 29.5 Liter
Cylinder Material: Aluminum
Gas Volume: 4000 Liter
Blend Tolerance: 10% Relative
Analytical Accuracy: 10% Relative

Expiration Date: 15/11/2011
Do NOT use under: 150 psig

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Bromochloromethane		100 ppb	104 ppb
1,4-Difluorobenzene		100 ppb	104 ppb
Chlorobenzene-d5		100 ppb	106 ppb
4-Bromofluorobenzene		100 ppb	104 ppb
Nitrogen		Balance	Balance

SOURCE REFERENCE# 269712

ANALYST: Lou Lorenzetti
 Lou Lorenzetti

DATE: 15/11/2010



3434 Route 22 West, Branchburg, New Jersey 08876 USA

ISO 9001:2000

G

SHIPPED FROM: 80 INDUSTRIAL DRIVE ALPHA, NJ. 08865

SHIPPED TO: Test America - Burlington
30 Community Drive
South Burlington, VT 05403 USA

AT02-00-13

CERTIFICATE OF ANALYSIS

SGI ORDER # :	140016	CYLINDER # :	CC-279057
ITEM# :	1	CYLINDER PRES:	2000 psig
CERTIFICATION DATE:	12/11/2008	CYLINDER VALVE:	CGA 350
P.O.# :	2282386	PRODUCT EXPIRATION DATE:	12/11/2009
BLEND TYPE:	CERTIFIED		

ANALYTICAL ACCURACY: +/-10%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Bromochloromethane	100 ppb	103 ppb
1,4-Difluorobenzene	100 ppb	106 ppb
Chlorobenzene-d5	100 ppb	107 ppb
4-Bromofluorobenzene	100 ppb	107 ppb
Nitrogen	Balance	Balance

248058
 ID: ATTO15GIS_00006
 Exp. 11/15/15 Piped WFO Open 1301/10
 Instrument G Internal Sta

SOURCE REFERENCE # 260788

ANALYST: Matthew Booth
Matthew Booth

DATE: 12/11/2008

METHODOLOGY SUMMARY

Laboratory: TestAmerica Laboratories

Project No: NA

Location: South Burlington, Vermont

SDG No:

VOA

Volatile Organics - NJDEP-LLTO-15

CASE NARRATIVE

Client: URS Corporation

Project: POM/VI SAMPLING

Report Number: 200-17825-1

The samples in this sample set were analyzed by the EPA Compendium Method TO-15 for specific volatile organic constituents. Unless otherwise noted below, the analytical work followed the requirements outlined in the New Jersey DEP guidelines.

The practice of the laboratory is to analyze one canister from each batch of canisters that have been cleaned for re-use in order to certify the batch. The canisters that were used for this sampling event were from multiple batches. The certifying analyses were free of target analytes down to the concentration levels that are contractually required (nominally 0.2 PPBV). In order to provide for the lower level of detection required for canister certification, the laboratory analyzed a 500 milliliter volume. The laboratory's established practice for the analysis of field samples is based on the analysis of a 200 milliliter sample volume. Documentation of the analytical work supporting canister certification is included in the "Clean Can Certification" section of this submittal. Documentation of canister vacuum as delivered to, and received from, the field is included in the "Clean Can Certification" section of this submittal.

Manual integration was employed in deriving certain of the analytical results. The values that have been derived from manual integration are qualified on the quantitation reports, and extracted ion current profiles are included in the data package.

The following details the column type and trap design that were used in the performance of the analytical work for the sample in this sample set:

Chromatography Column - Restek RTX-624
Length - 60 meters
Inner Diameter - 0.32 millimeters
Film thickness - 1.8 micrometers
Trap Design - Entech Model 7100A (glass bead and Tenax with cryo-focusing)

A summary of the laboratory's current Method Detection Limits (MDLs) has been provided as part of this submittal, immediately following this transmittal letter.

RECEIPT

The samples were received on 08/07/2013; the samples arrived in good condition.

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): SG-080613-SGP-01. The Flow Controller used for sample 2 has an asset of 3445. The COC lists 4482. Logged in per container label.

VOLATILE ORGANIC COMPOUNDS

Samples AA-080613-SGP-01 and SG-080613-SGP-01 were analyzed for Volatile Organic Compounds in accordance with NJDEP-LLTO-15. The samples were analyzed on 08/17/2013.

Samples AA-080613-SGP-01[10X] and SG-080613-SGP-01[9.96X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the VOCs analysis.

All quality control parameters were within the acceptance limits.

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-17825-1

SDG No.:

Instrument ID: C.i Analysis Batch Number: 58772

Lab Sample ID: IC 200-58772/2 Client Sample ID:

Date Analyzed: 07/21/13 12:36

Lab File ID: clt04.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST DATE
Allyl chloride	7.89	Baseline event	wrd 07/22/13 09:56

Lab Sample ID: IC 200-58772/3 Client Sample ID:

Date Analyzed: 07/21/13 13:28

Lab File ID: clt05.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST DATE
Allyl chloride	7.89	Baseline event	wrd 07/22/13 09:59

Lab Sample ID: IC 200-58772/4 Client Sample ID:

Date Analyzed: 07/21/13 14:21

Lab File ID: clt06.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST DATE
Allyl chloride	7.89	Baseline event	wrd 07/22/13 10:02

Lab Sample ID: ICIS 200-58772/5 Client Sample ID:

Date Analyzed: 07/21/13 15:13

Lab File ID: clt07.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST DATE
Allyl chloride	7.90	Baseline event	wrd 07/21/13 19:12

Lab Sample ID: IC 200-58772/6 Client Sample ID:

Date Analyzed: 07/21/13 16:06

Lab File ID: clt08.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST DATE
Allyl chloride	7.90	Baseline event	wrd 07/22/13 10:03

BL
8/19/13
[Signature]

TO15LL/NJ

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-17825-1
 SDG No.: _____
 Instrument ID: C.i Analysis Batch Number: 58772
 Lab Sample ID: IC 200-58772/7 Client Sample ID: _____
 Date Analyzed: 07/21/13 16:58 Lab File ID: clt09.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST DATE
Allyl chloride	7.90	Baseline event	wrd 07/22/13 10:04

Lab Sample ID: IC 200-58772/8 Client Sample ID: _____
 Date Analyzed: 07/21/13 17:50 Lab File ID: clt10.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST DATE
Allyl chloride	7.90	Baseline event	wrd 07/22/13 10:06

Lab Sample ID: ICV 200-58772/10 Client Sample ID: _____
 Date Analyzed: 07/22/13 08:15 Lab File ID: clt17.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST DATE
Allyl chloride	7.89	Baseline event	wrd 07/22/13 10:57

BL
8/19/13
[Signature]

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-17825-1
 SDG No.: _____
 Instrument ID: C.i Analysis Batch Number: 59928
 Lab Sample ID: CCVIS 200-59928/2 Client Sample ID: _____
 Date Analyzed: 08/16/13 12:35 Lab File ID: cltt02.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST DATE
Allyl chloride	7.88	Baseline event	lyonsb 08/16/13 15:51

Lab Sample ID: LCS 200-59928/4 Client Sample ID: _____
 Date Analyzed: 08/16/13 15:16 Lab File ID: cltt05.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST DATE
1,2-Dichloroethane	12.22	Peak not found by the data system	lyonsb 08/19/13 09:12

BL
8/19/13
[Signature]

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-17825-1

SDG No.: _____

Instrument ID: C.i Analysis Batch Number: 58772

Lab Sample ID: IC 200-58772/2 Client Sample ID: _____

Date Analyzed: 07/21/13 12:36 Lab File ID: clt04.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Allyl chloride	7.89	Baseline event	wrd	07/22/13 09:56

Lab Sample ID: IC 200-58772/3 Client Sample ID: _____

Date Analyzed: 07/21/13 13:28 Lab File ID: clt05.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Allyl chloride	7.89	Baseline event	wrd	07/22/13 09:59

Lab Sample ID: IC 200-58772/4 Client Sample ID: _____

Date Analyzed: 07/21/13 14:21 Lab File ID: clt06.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Allyl chloride	7.89	Baseline event	wrd	07/22/13 10:02

Lab Sample ID: ICIS 200-58772/5 Client Sample ID: _____

Date Analyzed: 07/21/13 15:13 Lab File ID: clt07.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Allyl chloride	7.90	Baseline event	wrd	07/21/13 19:12

Lab Sample ID: IC 200-58772/6 Client Sample ID: _____

Date Analyzed: 07/21/13 16:06 Lab File ID: clt08.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Allyl chloride	7.90	Baseline event	wrd	07/22/13 10:03

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-17825-1

SDG No.: _____

Instrument ID: C.i Analysis Batch Number: 58772

Lab Sample ID: IC 200-58772/7 Client Sample ID: _____

Date Analyzed: 07/21/13 16:58 Lab File ID: clt09.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Allyl chloride	7.90	Baseline event	wrd	07/22/13 10:04

Lab Sample ID: IC 200-58772/8 Client Sample ID: _____

Date Analyzed: 07/21/13 17:50 Lab File ID: clt10.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Allyl chloride	7.90	Baseline event	wrd	07/22/13 10:06

Lab Sample ID: ICV 200-58772/10 Client Sample ID: _____

Date Analyzed: 07/22/13 08:15 Lab File ID: clt17.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Allyl chloride	7.89	Baseline event	wrd	07/22/13 10:57

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-17825-1

SDG No.: _____

Instrument ID: C.i Analysis Batch Number: 59928

Lab Sample ID: CCVIS 200-59928/2 Client Sample ID: _____

Date Analyzed: 08/16/13 12:35 Lab File ID: cltt02.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Allyl chloride	7.88	Baseline event	lyonsb	08/16/13 15:51

Lab Sample ID: LCS 200-59928/4 Client Sample ID: _____

Date Analyzed: 08/16/13 15:16 Lab File ID: cltt05.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloroethane	12.22	Peak not found by the data system	lyonsb	08/19/13 09:12

Lab Sample ID: CCVC 200-59928/23 Client Sample ID: _____

Date Analyzed: 08/17/13 08:50 Lab File ID: cltt25.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Allyl chloride	7.88	Baseline event	lyonsb	08/19/13 09:28

Project Name: NA
 Field ID Number: AA-080613-SGP-01
 Laboratory ID Number: 200-17825-1

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Sampling Date: 08/06/2013 13:14
 Analysis Date: 08/17/2013 05:19

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	2.0	U	5			
1,1-Dichloroethene	75-35-4	96.94	2.0	U	8			
1,2-Dichloroethene, trans-	156-60-5	96.94	2.0	U	8			
1,1-Dichloroethane	75-34-3	98.96	2.0	U	8			
1,2-Dichloroethene, cis-	156-59-2	96.94	2.0	U	8			
1,1,1-Trichloroethane	71-55-6	133.41	2.0	U	11			
Carbon tetrachloride	56-23-5	153.81	2.0	U	13			
1,2-Dichloroethane	107-06-2	98.96	2.0	U	8			
Trichloroethene	79-01-6	131.39	2.0	U	11			
Tetrachloroethene	127-18-4	165.83	2.0	U	14			

Project Name: NA
 Field ID Number: SG-080613-SGP-01
 Laboratory ID Number: 200-17825-2

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Sampling Date: 08/06/2013 13:14
 Analysis Date: 08/17/2013 06:11

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	2.0	U	5			
1,1-Dichloroethene	75-35-4	96.94	2.0	U	8			
1,2-Dichloroethene, trans-	156-60-5	96.94	3.5		14			
1,1-Dichloroethane	75-34-3	98.96	2.0	U	8			
1,2-Dichloroethene, cis-	156-59-2	96.94	9.0		36			
1,1,1-Trichloroethane	71-55-6	133.41	5.8		32			
Carbon tetrachloride	56-23-5	153.81	2.0	U	13			
1,2-Dichloroethane	107-06-2	98.96	2.0	U	8			
Trichloroethene	79-01-6	131.39	55		290			
Tetrachloroethene	127-18-4	165.83	310		2100			

Project Name: NA
 Field ID Number:
 Laboratory ID Number: MB 200-59928/3

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Analysis Date: 08/16/2013 14:23

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	0.20	U	0.5			
1,1-Dichloroethene	75-35-4	96.94	0.20	U	0.8			
1,2-Dichloroethene, trans-	156-60-5	96.94	0.20	U	0.8			
1,1-Dichloroethane	75-34-3	98.96	0.20	U	0.8			
1,2-Dichloroethene, cis-	156-59-2	96.94	0.20	U	0.8			
1,1,1-Trichloroethane	71-55-6	133.41	0.20	U	1			
Carbon tetrachloride	56-23-5	153.81	0.20	U	1			
1,2-Dichloroethane	107-06-2	98.96	0.20	U	0.8			
Trichloroethene	79-01-6	131.39	0.20	U	1			
Tetrachloroethene	127-18-4	165.83	0.20	U	1			

DATA REPORTING QUALIFIERS

Client: URS Corporation

Job Number: 200-17825-1

Lab Section	Qualifier	Description
Air - GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD:	NJDEPLL TO15	MATRIX:	AIR	QA Review:	Kirstin Daigle			
PREP METHOD:	NA	Instrument(s):	B, C, G	Date Approved:	5/7/2012			
CLEANUP METHOD(s):	NA			TALS Entry:	5/7/2012			
ANALYTE	CAS #	DL ppbv	DL Source ²	LOD ppbv	LOD REF	LOQ ppbv	LOD/DL Ratio	LOQ/LOD Ratio
1,1,1-Trichloroethane	71-55-6	0.020	40CFR	0.080	LOD3	0.20	4.0	2.5
1,1,2,2-Tetrachloroethane	79-34-5	0.011	40CFR	0.040	LOD2	0.20	3.7	5.0
1,1,2-Trichloroethane	79-00-5	0.016	40CFR	0.040	LOD2	0.20	2.6	5.0
1,1-Dichloroethane	75-34-3	0.023	40CFR	0.080	LOD3	0.20	3.5	2.5
1,1-Dichloroethene	75-35-4	0.086	40CFR	0.20	LOD4	0.20	2.3	1.0
1,2,4-Trichlorobenzene	120-82-1	0.030	40CFR	0.080	LOD3	0.50	2.7	6.3
1,2,4-Trimethylbenzene	95-63-6	0.021	40CFR	0.080	LOD3	0.20	3.9	2.5
1,2-Dibromoethane	106-93-4	0.014	40CFR	0.040	LOD2	0.20	2.8	5.0
1,2-Dichlorobenzene	95-50-1	0.026	40CFR	0.080	LOD3	0.20	3.1	2.5
1,2-Dichloroethane	107-06-2	0.018	40CFR	0.040	LOD2	0.20	2.2	5.0
1,2-Dichloropropane	78-87-5	0.023	40CFR	0.080	LOD3	0.20	3.4	2.5
1,2-Dichlorotetrafluoroethane	76-14-2	0.020	40CFR	0.080	LOD3	0.20	4.0	2.5
1,3,5-Trimethylbenzene	108-67-8	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
1,3-Butadiene	106-99-0	0.025	40CFR	0.080	LOD3	0.20	3.3	2.5
1,3-Dichlorobenzene	541-73-1	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
1,4-Dichlorobenzene	106-46-7	0.018	40CFR	0.040	LOD2	0.20	2.2	5.0
1,4-Dioxane	123-91-1	0.070	40CFR	0.20	LOD4	5.0	2.8	25.0
2,2,4-Trimethylpentane	540-84-1	0.015	40CFR	0.040	LOD2	0.20	2.8	5.0
2-Chlorotoluene	95-49-8	0.013	40CFR	0.040	LOD2	0.20	3.1	5.0
3-Chloropropene	107-05-1	0.047	40CFR	0.080	LOD3	0.20	1.7	2.5
4-Ethyltoluene	622-96-8	0.015	40CFR	0.040	LOD2	0.20	2.6	5.0
Acetone	67-64-1	0.40	LTB	0.50	LOD5	5.0	1.3	10.0
Benzene	71-43-2	0.018	40CFR	0.040	LOD2	0.20	2.2	5.0
Bromodichloromethane	75-27-4	0.012	40CFR	0.040	LOD2	0.20	3.4	5.0
Bromoethene(Vinyl Bromide)	593-60-2	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
Bromoform	75-25-2	0.0072	40CFR	0.028	LOD1	0.20	3.9	7.1
Bromomethane	74-83-9	0.027	40CFR	0.080	LOD3	0.20	3.0	2.5
Carbon disulfide	75-15-0	0.020	40CFR	0.080	LOD3	0.50	3.9	6.3
Carbon tetrachloride	56-23-5	0.013	40CFR	0.040	LOD2	0.040	3.0	1.0
Chlorobenzene	108-90-7	0.013	40CFR	0.040	LOD2	0.20	3.0	5.0
Chloroethane	75-00-3	0.033	40CFR	0.080	LOD3	0.50	2.4	6.3
Chloroform	67-66-3	0.024	40CFR	0.080	LOD3	0.20	3.4	2.5
Chloromethane	74-87-3	0.034	LTB	0.080	LOD3	0.50	2.4	6.3
cis-1,2-Dichloroethene	156-59-2	0.084	40CFR	0.20	LOD4	0.20	2.4	1.0
cis-1,3-Dichloropropene	10061-01-5	0.013	40CFR	0.040	LOD2	0.20	3.2	5.0
Cyclohexane	110-82-7	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
Dibromochloromethane	124-48-1	0.011	40CFR	0.040	LOD2	0.20	3.6	5.0

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD:	NJDEPLL TO15	MATRIX:	AIR	QA Review:	Kirstin Daigle			
PREP METHOD:	NA	Instrument(s):	B, C, G	Date Approved:	5/7/2012			
CLEANUP METHOD(s):	NA			TALS Entry:	5/7/2012			
ANALYTE	CAS #	DL ppbv	DL Source ²	LOD ppbv	LOD REF	LOQ ppbv	LOD/DL Ratio	LOQ/LOD Ratio
Dichlorodifluoromethane	75-71-8	0.020	40CFR	0.080	LOD3	0.50	3.9	6.3
Ethylbenzene	100-41-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Freon TF	76-13-1	0.020	40CFR	0.080	LOD3	0.20	3.9	2.5
Hexachlorobutadiene	87-68-3	0.029	40CFR	0.080	LOD3	0.20	2.8	2.5
Isopropyl alcohol	67-63-0	0.076	40CFR	0.20	LOD4	5.0	2.6	25.0
m,p-Xylene	179601-23-1	0.022	40CFR	0.040	LOD2	0.50	1.8	12.5
Methyl Ethyl Ketone	78-93-3	0.025	40CFR	0.080	LOD3	0.50	3.2	6.3
Methyl isobutyl ketone	108-10-1	0.034	40CFR	0.080	LOD3	0.50	2.4	6.3
Methyl methacrylate	80-62-6	0.016	40CFR	0.040	LOD2	0.50	2.5	12.5
Methyl tert-butyl ether	1634-04-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Methylene Chloride	75-09-2	0.023	40CFR	0.080	LOD3	0.50	3.5	6.3
n-Heptane	142-82-5	0.017	40CFR	0.040	LOD2	0.20	2.4	5.0
n-Hexane	110-54-3	0.020	40CFR	0.080	LOD3	0.20	3.9	2.5
Styrene	100-42-5	0.011	40CFR	0.040	LOD2	0.20	3.6	5.0
tert-Butyl alcohol	75-65-0	0.041	40CFR	0.080	LOD3	5.0	2.0	62.4
Tetrachloroethene	127-18-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Tetrahydrofuran	109-99-9	0.029	40CFR	0.080	LOD3	5.0	2.7	62.4
Toluene	108-88-3	0.014	40CFR	0.040	LOD2	0.20	2.8	5.0
trans-1,2-Dichloroethene	156-60-5	0.023	40CFR	0.080	LOD3	0.20	3.5	2.5
trans-1,3-Dichloropropene	10061-02-6	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Trichloroethene	79-01-6	0.0092	40CFR	0.028	LOD1	0.20	3.1	7.1
Trichlorofluoromethane	75-69-4	0.021	40CFR	0.080	LOD3	0.20	3.9	2.5
Vinyl chloride	75-01-4	0.0091	40CFR	0.028	LOD1	0.20	3.1	7.1
Xylene, o-	95-47-6	0.016	40CFR	0.040	LOD2	0.20	2.4	5.0

¹: Summary Analyte. The DL, LOD and LOQ are set to the value equal to the lowest DL, LOD and LOQ of the component analytes.

²: 40CFR = DL is taken from 40CFR MDL Study. LTB = DL calculated from Long Term Evaluation of Method Blanks

Detection Limit (DL) Study Report

TEST METHOD:		NJDELL TO15		Prep Date:		01/16/12							
PREP METHOD:		NA		Initial Amount:		200 mL							
CLEANUP METHOD(S):		NA		Final Amount:		200 mL							
MATRIX:		AIR											
ANALYTE	CAS #	Spike ppbv	Date Analyzed:		01/16/12		01/16/12		Mean ppbv	Average %R	STD DEV	DL ppbv	Spike/DL Ratio
			Instrument ID:	Column Type:	C	C	C	C					
			REP 1	REP 2	REP 3	REP 4	REP 5	REP 6	REP 7				
Bromoform	75-25-2	0.050	0.045891	0.041705	0.040813	0.045382	0.043964	0.039841	0.042451	0.043	0.00229	0.0072	6.9
Bromomethane	74-83-9	0.10	0.130761	0.125472	0.136931	0.139073	0.112846	0.128623	0.126832	0.129	0.00861	0.027	3.7
Carbon disulfide	75-15-0	0.050	0.075073	0.058149	0.057821	0.069229	0.067015	0.059374	0.062664	0.064	0.00651	0.020	2.4
Chlorobenzene	108-90-7	0.10	0.102284	0.103269	0.112214	0.11103	0.102188	0.108552	0.103462	0.106	0.00420	0.013	7.6
Chloroethane	75-00-3	0.10	0.122704	0.112536	0.123091	0.135228	0.100856	0.120214	0.120826	0.119	0.01056	0.033	3.0
Chloroform	67-66-3	0.10	0.113871	0.109272	0.121736	0.117094	0.099934	0.119677	0.10854	0.113	0.00756	0.024	4.2
Chloromethane	74-87-3	0.050	0.127751	0.106998	0.116366	0.118031	0.09826	0.119097	0.109065	0.114	0.00964	0.030	1.6
cis-1,2-Dichloroethene	156-59-2	0.10	0.112903	0.087185	0.15046	0.113794	0.081309	0.137783	0.0884	0.110	0.02659	0.084	1.2
cis-1,3-Dichloropropene	10061-01-5	0.10	0.106437	0.106466	0.110124	0.109975	0.09883	0.109418	0.104207	0.106	0.00404	0.013	7.9
Cumene	98-82-8	0.10	0.085224	0.088124	0.091429	0.08698	0.083612	0.090868	0.081757	0.087	0.00360	0.011	8.8
Cyclohexane	110-82-7	0.10	0.102476	0.092597	0.104788	0.109388	0.098017	0.11024	0.103469	0.103	0.00619	0.019	5.1
Dibromochloromethane	124-48-1	0.10	0.085564	0.087052	0.09343	0.091867	0.084292	0.085365	0.085664	0.088	0.00357	0.011	8.9
Dibromomethane	74-95-3	0.10	0.104595	0.107389	0.109047	0.107532	0.096097	0.107164	0.098533	0.104	0.00502	0.016	6.3
Dichlorodifluoromethane	75-71-8	0.10	0.125414	0.126865	0.127053	0.134674	0.122344	0.120975	0.113685	0.124	0.00646	0.020	4.9
Ethanol	64-17-5	1.00	0.969299	1.020308	1.070641	1.039724	0.956727	1.006232	0.900894	0.995	0.05696	0.179	5.6
Ethyl acetate	141-78-6	0.50	0.429368	0.472311	0.454595	0.456607	0.447219	0.465664	0.495475	0.460	0.02075	0.065	7.6
Ethyl ether	60-29-7	0.10	0.093526	0.100116	0.106814	0.099036	0.08939	0.102939	0.094416	0.098	0.00598	0.019	5.3
Ethylbenzene	100-41-4	0.10	0.090417	0.092208	0.095145	0.097014	0.083311	0.096034	0.092317	0.092	0.00463	0.015	6.9
Freon 22	75-45-6	0.10	0.150983	0.139723	0.141181	0.142633	0.132819	0.13492	0.128858	0.139	0.00729	0.023	4.4
Freon TF	76-13-1	0.10	0.107548	0.105615	0.113483	0.116446	0.096401	0.111776	0.108877	0.109	0.00651	0.020	4.9
Hexachlorobutadiene	87-68-3	0.10	0.097644	0.071429	0.074537	0.0913	0.087521	0.085486	0.080987	0.084	0.00922	0.029	3.4
Isopentane	78-78-4	0.10	0.127579	0.187384	0.169759	0.17624	0.141859	0.159417	0.154617	0.160	0.02048	0.064	1.6
Isopropyl alcohol	67-63-0	0.50	0.572061	0.521524	0.50583	0.515674	0.541903	0.502692	0.535203	0.528	0.02419	0.076	6.6
m,p-Xylene	179601-23-1	0.20	0.162862	0.171383	0.181162	0.17433	0.166483	0.180529	0.169046	0.172	0.00689	0.022	9.2
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.50	0.483758	0.451819	0.477876	0.469687	0.482335	0.470408	0.454572	0.470	0.01273	0.040	12.5
Methyl Ethyl Ketone	78-93-3	0.10	0.078894	0.082858	0.089406	0.078321	0.076614	0.08675	0.065473	0.080	0.00783	0.025	4.1
Methyl isobutyl ketone	108-10-1	0.50	0.487199	0.487166	0.491268	0.497069	0.489725	0.508268	0.47318	0.491	0.01066	0.034	14.9
Methyl methacrylate	80-62-6	0.10	0.062633	0.069693	0.075979	0.077813	0.072156	0.072629	0.068253	0.071	0.00506	0.016	6.3
Methyl tert-butyl ether	1634-04-4	0.10	0.096	0.106222	0.105087	0.101422	0.094621	0.101694	0.095566	0.100	0.00473	0.015	6.7
Methylene Chloride	75-09-2	0.10	0.186679	0.180651	0.190941	0.19634	0.17427	0.184107	0.182069	0.185	0.00719	0.023	4.4
Naphthalene	91-20-3	0.10	0.095391	0.069495	0.067525	0.070833	0.078978	0.094064	0.069779	0.078	0.01199	0.038	2.6
n-Butane	106-97-8	0.050	0.09185	0.074788	0.074602	0.085903	0.077214	0.072987	0.081057	0.080	0.00694	0.022	2.3
n-Butanol	71-36-3	0.50	0.60719	0.668807	0.573518	0.531713	0.568194	0.634713	0.604817	0.598	0.04541	0.143	3.5

Detection Limit (DL) Study Report

TEST METHOD:		NJDELL TO15		Prep Date:		01/16/12							
PREP METHOD:		NA		Initial Amount:		200 mL							
CLEANUP METHOD(s):		NA		Final Amount:		200 mL							
MATRIX:		AIR											
ANALYTE	CAS #	Date Analyzed:	Spike ppbv	01/16/12		01/16/12		Mean ppbv	Average %R	STD DEV	DL ppbv	Spike/DL Ratio	
				C	REP 1 ppbv	C	REP 2 ppbv						C
Instrument ID:	Column Type:	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	
n-Butylbenzene	104-51-8	0.050	0.048137	0.028586	0.029114	0.03042	0.035355	0.029657	0.031059	0.00696	0.022	2.3	
n-Decane	124-18-5	0.050	0.036546	0.022044	0.020162	0.023891	0.028608	0.0212	0.026588	0.00557	0.018	2.9	
n-Dodecane	112-40-3	0.50	0.627098	0.480578	0.473868	0.474722	0.571975	0.47566	0.497409	0.06078	0.191	2.6	
n-Heptane	142-82-5	0.10	0.09942	0.10363	0.111768	0.109175	0.097895	0.109455	0.10716	0.00531	0.017	6.0	
n-Hexane	110-54-3	0.050	0.073875	0.05334	0.057888	0.064359	0.063601	0.06049	0.065062	0.00645	0.020	2.5	
n-Nonane	111-84-2	0.050	0.050916	0.041586	0.043278	0.04702	0.043524	0.045371	0.044423	0.00307	0.010	5.2	
n-Octane	111-65-9	0.10	0.102898	0.102016	0.109872	0.10588	0.0989	0.109196	0.108147	0.00412	0.013	7.7	
n-Pentane	109-66-0	0.10	0.113422	0.112879	0.122504	0.124181	0.10199	0.115375	0.119221	0.00744	0.023	4.3	
n-Propylbenzene	103-65-1	0.050	0.045237	0.034802	0.031889	0.037885	0.039789	0.03589	0.036715	0.00423	0.013	3.8	
n-Undecane	1120-21-4	0.50	0.264815	0.245186	0.235354	0.243748	0.260431	0.239573	0.244349	0.01085	0.034	14.6	
Propylene	115-07-1	0.50	0.60298	0.617479	0.605271	0.627917	0.623967	0.691435	0.636873	0.02988	0.094	5.3	
sec-Butylbenzene	135-98-8	0.10	0.073975	0.076789	0.078233	0.081733	0.076792	0.073771	0.066755	0.00468	0.015	6.8	
Styrene	100-42-5	0.050	0.044637	0.038055	0.034198	0.04162	0.03885	0.036069	0.040379	0.00349	0.011	4.6	
tert-Butyl alcohol	75-65-0	0.50	0.508232	0.496266	0.480641	0.489734	0.509943	0.513052	0.514001	0.01296	0.041	12.3	
tert-Butylbenzene	98-06-6	0.050	0.0437	0.035827	0.032872	0.039288	0.040358	0.036458	0.038936	0.00350	0.011	4.5	
Tetrachloroethene	127-18-4	0.10	0.102889	0.103282	0.109897	0.111806	0.098738	0.10689	0.101255	0.00473	0.015	6.7	
Tetrahydrofuran	109-99-9	0.50	0.526214	0.508039	0.517002	0.536047	0.522949	0.511868	0.51802	0.00937	0.029	16.9	
Toluene	108-88-3	0.10	0.101053	0.100661	0.106148	0.108643	0.097266	0.109432	0.104239	0.00449	0.014	7.1	
trans-1,2-Dichloroethene	156-60-5	0.10	0.107583	0.103375	0.113143	0.112858	0.092156	0.108578	0.109256	0.00722	0.023	4.4	
trans-1,3-Dichloropropene	10061-02-6	0.10	0.095167	0.098962	0.106149	0.106491	0.095199	0.102061	0.09792	0.00475	0.015	6.7	
Trichlorofluoromethane	75-69-4	0.050	0.077581	0.059176	0.059963	0.071561	0.065175	0.064871	0.069117	0.00653	0.021	2.4	
Vinyl acetate	108-05-4	0.50	0.494487	0.509174	0.494689	0.500711	0.516169	0.498506	0.498208	0.00806	0.025	19.7	
Xylene, o-	95-47-6	0.10	0.087382	0.088147	0.097469	0.093614	0.086955	0.091865	0.081519	0.00520	0.016	6.1	

Limit of Detection (LOD) Verification Report

TEST METHOD:		NJDEPLLT015		Prep Date:	1/31/2012, 02/06/12		Instrument(s):					
PREP METHOD:		NA		Initial Amount:	200 mL		B			C		
CLEANUP METHOD(s):		NA		Final Amount:	200 mL		RTX-624			RTX-624		
MATRIX:		AIR		LOD Ref:	1							
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
Bromoform	75-25-2	0.0072	0.0072	0.028	3.9	Y	0.0236358	01/31/12	0.0269937	02/06/12	0.0310274	01/31/12
Trichloroethene	79-01-6	0.0092	0.0092	0.028	3.1	Y	0.0369347	01/31/12	0.0357282	02/06/12	0.0370572	01/31/12
Vinyl chloride	75-01-4	0.0091	0.0091	0.028	3.1	Y	0.0382497	01/31/12	0.0271757	02/06/12	0.0427657	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLO15		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
	PREP METHOD:	NA	Initial Amount:	200 mL	B			C			G	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624			RTX-624			RTX-624		
MATRIX:	AIR	LOD Ref:	2									
ANALYTE	CAS #	ppbv	ppbv	Spike	Spike/DL	Pass	Result	Date	Result	Date	Result	Date
				ppbv	Ratio	Y/N	ppbv	Analyzed	ppbv	Analyzed	ppbv	Analyzed
1,1,2,2-Tetrachloroethane	79-34-5	0.011	0.040	0.040	3.6	Y	0.0439484	01/30/12	0.0367094	01/30/12	0.0368553	01/31/12
1,1,2-Trichloroethane	79-00-5	0.016	0.040	0.040	2.5	Y	0.04085	01/30/12	0.0383681	01/30/12	0.0375874	01/31/12
1,2-Dibromoethane	106-93-4	0.014	0.040	0.040	2.9	Y	0.0382115	01/30/12	0.0373325	01/30/12	0.0413789	01/31/12
1,2-Dichloroethane	107-06-2	0.018	0.040	0.040	2.2	Y	0.043269	01/30/12	0.044657	01/30/12	0.0427347	01/31/12
1,3,5-Trimethylbenzene	108-67-8	0.019	0.040	0.040	2.1	Y	0.0448217	01/30/12	0.0356625	01/30/12	0.0229489	01/31/12
1,3-Dichlorobenzene	541-73-1	0.019	0.040	0.040	2.1	Y	0.0440867	01/30/12	0.0375736	01/30/12	0.0483551	01/31/12
1,4-Dichlorobenzene	106-46-7	0.018	0.040	0.040	2.2	Y	0.0467479	01/30/12	0.0378337	01/30/12	0.0332018	01/31/12
2,2,4-Trimethylpentane	540-84-1	0.015	0.040	0.040	2.7	Y	0.0458012	01/30/12	0.0432881	01/30/12	0.0413784	01/31/12
2-Chlorotoluene	95-49-8	0.013	0.040	0.040	3.1	Y	0.0477588	01/30/12	0.0398619	01/30/12	0.0273756	01/31/12
4-Ethyltoluene	622-96-8	0.015	0.040	0.040	2.7	Y	0.0413871	01/30/12	0.03224089	01/30/12	0.0183816	01/31/12
Alpha Methyl Styrene	98-83-9	0.018	0.040	0.040	2.2	Y	0.0283359	01/30/12	0.0241925	01/30/12	0.0361873	01/31/12
Benzene	71-43-2	0.018	0.040	0.040	2.2	Y	0.0566347	01/30/12	0.0538394	01/30/12	0.0488064	01/31/12
Bromodichloromethane	75-27-4	0.012	0.040	0.040	3.3	Y	0.0416361	01/30/12	0.0401186	01/30/12	0.0400368	01/31/12
Bromoethene(Vinyl Bromide)	593-60-2	0.019	0.040	0.040	2.1	Y	0.0477646	01/30/12	0.0390748	01/30/12	0.0509984	01/31/12
Carbon tetrachloride	56-23-5	0.019	0.040	0.040	2.1	Y	0.0450564	01/30/12	0.0453807	01/30/12	0.0445167	01/31/12
Chlorobenzene	108-90-7	0.013	0.040	0.040	3.1	Y	0.0509605	01/30/12	0.0454508	01/30/12	0.0435362	01/31/12
cis-1,3-Dichloropropene	10061-01-5	0.013	0.040	0.040	3.1	Y	0.0409175	01/30/12	0.0482381	01/30/12	0.048195	01/31/12
Cumene	98-82-8	0.011	0.040	0.040	3.6	Y	0.0423284	01/30/12	0.0378653	01/30/12	0.0334343	01/31/12
Cyclohexane	110-82-7	0.013	0.040	0.040	3.1	Y	0.0501248	01/30/12	0.0390593	01/30/12	0.0475519	01/31/12
Dibromochloromethane	124-48-1	0.011	0.040	0.040	3.6	Y	0.0355362	01/30/12	0.0354374	01/30/12	0.0358777	01/31/12
Dibromomethane	74-95-3	0.016	0.040	0.040	2.5	Y	0.0458574	01/30/12	0.0384973	01/30/12	0.0533226	01/31/12
Ethyl ether	60-29-7	0.019	0.040	0.040	2.1	Y	0.0360172	01/30/12	0.0208922	01/30/12	0.0468287	01/31/12
Ethylbenzene	100-41-4	0.015	0.040	0.040	2.7	Y	0.0470157	01/30/12	0.0410152	01/30/12	0.031831	01/31/12
m,p-Xylene	179601-23-1	0.022	0.080	0.080	3.7	Y	0.0866301	01/30/12	0.0737886	01/30/12	0.0660686	01/31/12
Methyl methacrylate	80-62-6	0.016	0.040	0.040	2.5	Y	0.0206074	01/30/12	0.0208438	01/30/12	0.0234625	01/31/12
Methyl tert-butyl ether	1634-04-4	0.015	0.040	0.040	2.7	Y	0.0444376	01/30/12	0.0448008	01/30/12	0.0421109	01/31/12
n-Decane	124-18-5	0.010	0.040	0.040	4.0	Y	0.0452386	01/30/12	0.0212837	01/30/12	0.0306513	01/31/12
n-Heptane	142-82-5	0.017	0.040	0.040	2.4	Y	0.0479421	01/30/12	0.0424606	01/30/12	0.0476082	01/31/12
n-Nonane	111-84-2	0.010	0.040	0.040	4.0	Y	0.0450012	01/30/12	0.035101	01/30/12	0.0350987	01/31/12
n-Octane	111-65-9	0.013	0.040	0.040	3.1	Y	0.0462756	01/30/12	0.0443126	01/30/12	0.0605262	01/31/12
n-Propylbenzene	103-65-1	0.013	0.040	0.040	3.1	Y	0.0471636	01/30/12	0.0289208	01/30/12	0.0273027	01/31/12
sec-Butylbenzene	135-98-8	0.015	0.040	0.040	2.7	Y	0.044853	01/30/12	0.0347986	01/30/12	0.0245313	01/31/12
Styrene	100-42-5	0.011	0.040	0.040	3.6	Y	0.0313848	01/30/12	0.0323169	01/30/12	0.0333362	01/31/12
tert-Butylbenzene	98-06-6	0.011	0.040	0.040	3.6	Y	0.043188	01/30/12	0.0312036	01/30/12	0.0288258	01/31/12
Tetrachloroethene	127-18-4	0.015	0.040	0.040	2.7	Y	0.0432741	01/30/12	0.041753	01/30/12	0.0617601	01/31/12
Toluene	108-88-3	0.014	0.040	0.040	2.9	Y	0.0469235	01/30/12	0.0421189	01/30/12	0.0477686	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:		NJDEPLLO15		Prep Date:		01/30/12, 01/31/12		Instrument(s):			
PREP METHOD:		NA		Initial Amount:		200 mL		B		C	
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624		RTX-624	
MATRIX:		AIR		LOD Ref:		2					
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Date Analyzed
trans-1,3-Dichloropropene	10061-02-6	0.015	0.015	0.040	2.7	Y	0.0354448	01/30/12	0.0450151	01/30/12	01/31/12
Xylene, o-	95-47-6	0.016	0.016	0.040	2.5	Y	0.0416562	01/30/12	0.0359343	01/30/12	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLT015		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
	PREP METHOD:	NA	Initial Amount:	200 mL	B			C			G	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624			RTX-624			RTX-624		
MATRIX:	AIR	LOD Ref:	3									
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
1,1,1-Trichloroethane	71-55-6	0.020	0.080	0.080	4.0	Y	0.0847092	01/30/12	0.085857	01/30/12	0.1010164	01/31/12
1,1-Dichloroethane	75-34-3	0.023	0.080	0.080	3.5	Y	0.0931831	01/30/12	0.0857771	01/30/12	0.0986975	01/31/12
1,2,3-Trichlorobenzene	87-61-6	0.041	0.080	0.080	2.0	Y	0.0539692	01/30/12	0.0771812	01/30/12	0.0473325	01/31/12
1,2,3-Trichloropropane	96-18-4	0.025	0.080	0.080	3.2	Y	0.0977633	01/30/12	0.0754392	01/30/12	0.0944615	01/31/12
1,2,4-Trichlorobenzene	120-82-1	0.030	0.080	0.080	2.7	Y	0.0566003	01/30/12	0.0789511	01/30/12	0.0435911	01/31/12
1,2,4-Trimethylbenzene	95-63-6	0.021	0.080	0.080	3.8	Y	0.0829333	01/30/12	0.0685175	01/30/12	0.0631691	01/31/12
1,2-Dichlorobenzene	95-50-1	0.026	0.080	0.080	3.1	Y	0.085858	01/30/12	0.0752173	01/30/12	0.0806144	01/31/12
1,2-Dichloropropane	78-87-5	0.023	0.080	0.080	3.5	Y	0.0891035	01/30/12	0.0819475	01/30/12	0.0842903	01/31/12
1,2-Dichlorotetrafluoroethane	76-14-2	0.020	0.080	0.080	4.0	Y	0.0942239	01/30/12	0.0950581	01/30/12	0.0974105	01/31/12
1,3-Butadiene	106-99-0	0.025	0.080	0.080	3.2	Y	0.0955856	01/30/12	0.088752	01/30/12	0.084439	01/31/12
3-Chloropropene	107-05-1	0.047	0.080	0.080	1.7	Y	0.0993075	01/30/12	0.091879	01/30/12	0.1066344	01/31/12
4-Isopropyltoluene	99-87-6	0.020	0.080	0.080	4.0	Y	0.0788073	01/30/12	0.0615909	01/30/12	0.0668848	01/31/12
Acrylonitrile	107-13-1	0.023	0.080	0.080	3.5	Y	0.0697887	01/30/12	0.0685497	01/30/12	0.0882696	01/31/12
Benzyl chloride	100-44-7	0.022	0.080	0.080	3.6	Y	0.0765995	01/30/12	0.0641082	01/30/12	0.0700765	01/31/12
Bromomethane	74-83-9	0.027	0.080	0.080	3.0	Y	0.0930672	01/30/12	0.1028085	01/30/12	0.0944654	01/31/12
Carbon disulfide	75-15-0	0.020	0.080	0.080	4.0	Y	0.0905713	01/30/12	0.0853358	01/30/12	0.0909487	01/31/12
Chloroethane	75-00-3	0.033	0.080	0.080	2.4	Y	0.0917268	01/30/12	0.089895	01/30/12	0.1090466	01/31/12
Chloroform	67-66-3	0.024	0.080	0.080	3.3	Y	0.0919575	01/30/12	0.0870513	01/30/12	0.0988419	01/31/12
Chloromethane	74-87-3	0.034	0.080	0.080	2.4	Y	0.1161505	01/30/12	0.1338395	01/30/12	0.1092541	01/31/12
Dichlorodifluoromethane	75-71-8	0.020	0.080	0.080	4.0	Y	0.0970985	01/30/12	0.0993256	01/30/12	0.1069844	01/31/12
Freon 22	75-45-6	0.023	0.080	0.080	3.5	Y	0.1103272	01/30/12	0.1130052	01/30/12	0.1133509	01/31/12
Freon TF	76-13-1	0.020	0.080	0.080	4.0	Y	0.0864918	01/30/12	0.0909698	01/30/12	0.0951117	01/31/12
Hexachlorobutadiene	87-68-3	0.029	0.080	0.080	2.8	Y	0.088581	01/30/12	0.0782484	01/30/12	0.1003174	01/31/12
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.040	0.080	0.080	2.0	Y	0.0498435	01/30/12	0.0577654	01/30/12	0.0609178	01/31/12
Methyl Ethyl Ketone	78-93-3	0.025	0.080	0.080	3.2	Y	0.0872113	01/30/12	0.0687485	01/30/12	0.1159597	01/31/12
Methyl isobutyl ketone	108-10-1	0.034	0.080	0.080	2.4	Y	0.0662186	01/30/12	0.0665661	01/30/12	0.0747982	01/31/12
Methylene Chloride	75-09-2	0.023	0.080	0.080	3.5	Y	0.151845	01/30/12	0.1578643	01/30/12	0.129091	01/31/12
Naphthalene	91-20-3	0.038	0.080	0.080	2.1	Y	0.0384757	01/30/12	0.0722274	01/30/12	0.024552	01/31/12
n-Butane	106-97-8	0.022	0.080	0.080	3.6	Y	0.100763	01/30/12	0.0958848	01/30/12	0.1046282	01/31/12
n-Butylbenzene	104-51-8	0.022	0.080	0.080	3.6	Y	0.0837784	01/30/12	0.0570576	01/30/12	0.0580806	01/31/12
n-Hexane	110-54-3	0.020	0.080	0.080	4.0	Y	0.0873752	01/30/12	0.0821212	01/30/12	0.08679	01/31/12
n-Pentane	109-66-0	0.023	0.080	0.080	3.5	Y	0.1048033	01/30/12	0.0910497	01/30/12	0.0965429	01/31/12
n-Undecane	1120-21-4	0.034	0.080	0.080	2.4	Y	0.1022867	01/30/12	0.0466734	01/30/12	0.0571363	01/31/12
tert-Butyl alcohol	75-65-0	0.041	0.080	0.080	2.0	Y	0.0774393	01/30/12	0.0757495	01/30/12	0.0971297	01/31/12
Tetrahydrofuran	109-99-9	0.029	0.080	0.080	2.8	Y	0.0860254	01/30/12	0.0813159	01/30/12	0.0882096	01/31/12
trans-1,2-Dichloroethene	156-60-5	0.023	0.080	0.080	3.5	Y	0.0847762	01/30/12	0.0794756	01/30/12	0.0924157	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLT015	Prep Date:	01/30/12, 01/31/12	Instrument(s):			
PREP METHOD:	NA	Initial Amount:	200 mL	B		C	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624		RTX-624	
MATRIX:	AIR	LOD Ref:	3				
ANALYTE	CAS #	ppbv	Spike	Spike/DL	Pass	Date	Date
		ppbv	ppbv	Ratio	Y/N	Analyzed	Analyzed
Trichlorofluoromethane	75-69-4	0.021	0.080	3.8	Y	01/30/12	01/30/12
Vinyl acetate	108-05-4	0.025	0.080	3.2	Y	01/30/12	01/30/12
						0.089964	0.1038024
						0.0670452	0.0689756
						0.094083	0.1038024
						0.0689756	0.086645
						01/30/12	01/31/12
						01/30/12	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:		NJDEPLLT015		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		B		C		G	
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624		RTX-624		RTX-624	
MATRIX:		AIR		LOD Ref:		4							
ANALYTE	CAS #	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
1,1-Dichloroethene	75-35-4	0.086	0.20	2.3	Y	0.21544	01/30/12	0.2414822	01/30/12	0.1941059	01/30/12	0.1706352	01/31/12
1,4-Dioxane	123-91-1	0.070	0.20	2.9	Y	0.1538093	01/30/12	0.1757113	01/30/12	0.1706352	01/30/12	0.1706352	01/31/12
Acetonitrile	75-05-8	0.082	0.20	2.4	Y	0.2620567	01/30/12	0.4688481	01/30/12	0.2682369	01/30/12	0.2682369	01/31/12
Acrolein	107-02-8	0.067	0.20	3.0	Y	0.2478182	01/30/12	0.2085343	01/30/12	0.2568267	01/30/12	0.2568267	01/31/12
cis-1,2-Dichloroethene	156-59-2	0.084	0.20	2.4	Y	0.2065816	01/30/12	0.2304565	01/30/12	0.217851	01/30/12	0.217851	01/31/12
Ethanol	64-17-5	0.18	0.40	2.2	Y	0.6113607	01/30/12	0.4718399	01/30/12	0.5560324	01/30/12	0.5560324	01/31/12
Ethyl acetate	141-78-6	0.065	0.20	3.1	Y	0.0826342	01/30/12	0.0257973	01/30/12	0.2569577	01/30/12	0.2569577	01/31/12
Isopentane	78-78-4	0.064	0.20	3.1	Y	0.2421419	01/30/12	0.2361926	01/30/12	0.2148304	01/30/12	0.2148304	01/31/12
Isopropyl alcohol	67-63-0	0.076	0.20	2.6	Y	0.1918079	01/30/12	0.1819499	01/30/12	0.2239464	01/30/12	0.2239464	01/31/12
n-Butanol	71-36-3	0.14	0.20	1.4	Y	0.1789814	01/30/12	0.2396682	01/30/12	0.2954564	01/30/12	0.2954564	01/31/12
n-Dodecane	112-40-3	0.19	0.20	1.0	Y	0.1615149	01/30/12	0.2051198	01/30/12	0.1318974	01/30/12	0.1318974	01/31/12
Propylene	115-07-1	0.094	0.20	2.1	Y	0.271858	01/30/12	0.3481022	01/30/12	0.2677293	01/30/12	0.2677293	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLTO15	Prep Date:	01/30/12, 01/31/12	Instrument(s):			
PREP METHOD:	NA	Initial Amount:	200 mL	B		C	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624		RTX-624	
MATRIX:	AIR	LOD Ref:	4				
ANALYTE	CAS #	ppbv	Spike	Spike/DL	Pass	Result	Date
Acetone	67-64-1	0.40	ppbv	Ratio	Y/N	ppbv	Analyzed
			0.50	1.3	Y	0.8803931	01/30/12
						0.9494763	01/31/12

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		NJDEPLLT015		Prep Date:		01/30/12, 01/31/12, 02/1		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		B		C		G	
CLEANUP METHOD(S):		NA		Final Amount:		200 mL		RTX-624		RTX-624		RTX-624	
MATRIX:		AIR		CSV Ref:		LOQ		01/30/12, 01/31/12		01/30/12, 02/09/12, 02/28/12		01/31/12	
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Ratio	Pass	Spike / LOQ Ratio	Result ppbv	%R	Result ppbv	%R	Result ppbv	%R
1,1,1-Trichloroethane	71-55-6	0.20	0.20	0.20	1.0	Y	1.0	0.2413639	107	0.20413639	102	0.2478879	124
1,1,2,2-Tetrachloroethane	79-34-5	0.20	0.20	0.20	1.0	Y	1.0	0.2190932	110	0.198034594	99	0.1973121	99
1,1,2-Trichloroethane	79-00-5	0.20	0.20	0.20	1.0	Y	1.0	0.2067923	103	0.198735441	99	0.2353734	118
1,1-Dichloroethane	75-34-3	0.20	0.20	0.20	1.0	Y	1.0	0.2315938	116	0.195251478	98	0.2178936	109
1,1-Dichloroethene	75-35-4	0.20	0.20	0.20	1.0	Y	1.0	0.2156916	108	0.236801737	118	0.2295669	115
1,2,3-Trichlorobenzene	87-61-6	0.20	0.20	0.20	1.0	Y	1.0	0.124589	62	0.175465772	88	0.1194694	60
1,2,3-Trichloropropane	96-18-4	0.50	0.50	0.50	1.0	Y	1.0	0.5973531	119	0.49043631	98	0.5194116	104
1,2,4-Trichlorobenzene	120-82-1	0.50	0.50	0.50	1.0	Y	1.0	0.3865497	77	0.443693854	89	0.3481276	70
1,2,4-Trimethylbenzene	95-63-6	0.20	0.20	0.20	1.0	Y	1.0	0.1980249	99	0.184375444	92	0.1835486	92
1,2-Dibromoethane	106-93-4	0.20	0.20	0.20	1.0	Y	1.0	0.1826634	91	0.181906254	91	0.2259952	113
1,2-Dichlorobenzene	95-50-1	0.20	0.20	0.20	1.0	Y	1.0	0.1917522	96	0.195517514	98	0.2038696	102
1,2-Dichloroethane	107-06-2	0.20	0.20	0.20	1.0	Y	1.0	0.2202224	110	0.20169939	101	0.2573214	129
1,2-Dichloropropane	78-87-5	0.20	0.20	0.20	1.0	Y	1.0	0.2269977	113	0.19984162	100	0.1994906	100
1,2-Dichlorotetrafluoroethane	76-14-2	0.20	0.20	0.20	1.0	Y	1.0	0.2558942	128	0.226962474	113	0.2166011	108
1,3,5-Trimethylbenzene	108-67-8	0.20	0.20	0.20	1.0	Y	1.0	0.2052589	103	0.182155396	91	0.1949404	97
1,3-Butadiene	106-99-0	0.20	0.20	0.20	1.0	Y	1.0	0.240449	120	0.212136957	106	0.207543	104
1,3-Dichlorobenzene	541-73-1	0.20	0.20	0.20	1.0	Y	1.0	0.1904339	95	0.189661204	95	0.2039491	102
1,4-Dichlorobenzene	106-46-7	0.20	0.20	0.20	1.0	Y	1.0	0.1811234	91	0.187857839	94	0.1899928	95
1,4-Dioxane	123-91-1	5.0	5.0	5.0	1.0	Y	1.0	5.214428	104	4.519464281	91	5.2969506	106
2,2,4-Trimethylpentane	540-84-1	0.20	0.20	0.20	1.0	Y	1.0	0.2269492	113	0.18981289	95	0.2068431	103
2-Chlorotoluene	95-49-8	0.20	0.20	0.20	1.0	Y	1.0	0.215235	108	0.186098239	93	0.2324965	116
3-Chloropropene	107-05-1	0.20	0.20	0.20	1.0	Y	1.0	0.2505149	125	0.206991005	103	0.2258961	113
4-Ethyltoluene	622-96-8	0.20	0.20	0.20	1.0	Y	1.0	0.2007357	100	0.168665588	84	0.1977668	99
4-Isopropyltoluene	99-87-6	0.20	0.20	0.20	1.0	Y	1.0	0.190941	95	0.174423806	87	0.1910409	96
Acetone	67-64-1	5.0	5.0	5.0	1.0	Y	1.0	6.8730918	138	4.868555067	98	6.127913	123
Acetonitrile	75-05-8	5.0	5.0	5.0	1.0	Y	1.0	6.3148979	127	5.280957546	106	5.0024665	100
Acrolein	107-02-8	5.0	5.0	5.0	1.0	Y	1.0	5.9856251	120	4.506646391	90	6.2722431	126
Acrylonitrile	107-13-1	0.50	0.50	0.50	1.0	Y	1.0	0.5651999	113	0.466895501	93	0.4965948	99
Alpha Methyl Styrene	98-83-9	0.20	0.20	0.20	1.0	Y	1.0	0.1511434	76	0.142595619	71	0.1719449	86
Benzene	71-43-2	0.20	0.20	0.20	1.0	Y	1.0	0.2278442	114	0.205776913	103	0.2311636	116
Benzyl chloride	100-44-7	0.20	0.20	0.20	1.0	Y	1.0	0.1887917	94	0.173426176	87	0.1754307	88
Bromodichloromethane	75-27-4	0.20	0.20	0.20	1.0	Y	1.0	0.2043207	102	0.178787348	89	0.2241085	112
Bromoethene(Vinyl Bromide)	593-60-2	0.20	0.20	0.20	1.0	Y	1.0	0.2341048	117	0.202929167	101	0.2178155	109
Bromoform	75-25-2	0.20	0.20	0.20	1.0	Y	1.0	0.1518521	76	0.155865313	78	0.2132712	107
Bromomethane	74-83-9	0.20	0.20	0.20	1.0	Y	1.0	0.2482376	124	0.235466793	118	0.2183876	109
Carbon disulfide	75-15-0	0.50	0.50	0.50	1.0	Y	1.0	0.583639	117	0.498735702	100	0.4880552	98

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		NJEPLLT015		Prep Date:		01/30/12, 01/31/12, 02/01/12		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		B		C		G	
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624		RTX-624		RTX-624	
MATRIX:		AIR		CSV Ref:		LOQ		01/30/12, 01/31/12		01/30/12, 02/09/12, 02/28/12		01/31/12	
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Ratio	Pass	Spike / LOQ Ratio	Result ppbv	%R	Result ppbv	%R	Result ppbv	%R
Carbon tetrachloride	56-23-5	0.040	0.040	0.040	1.0	Y	1.0	0.0473575	118	0.057302274	143	0.0503509	126
Chlorobenzene	108-90-7	0.20	0.20	0.20	1.0	Y	1.0	0.2062465	103	0.20444255	102	0.2411045	121
Chloroethane	75-00-3	0.50	0.50	0.50	1.0	Y	1.0	0.6750309	135	0.561782534	112	0.552979	111
Chloroform	67-66-3	0.20	0.20	0.20	1.0	Y	1.0	0.2207505	110	0.208729889	104	0.2151206	108
Chloromethane	74-87-3	0.50	0.50	0.50	1.0	Y	1.0	0.7072121	141	0.572340069	114	0.5452139	109
cis-1,2-Dichloroethene	156-59-2	0.20	0.20	0.20	1.0	Y	1.0	0.2050401	103	0.233783716	117	0.2441383	122
cis-1,3-Dichloropropene	10061-01-5	0.20	0.20	0.20	1.0	Y	1.0	0.1984556	99	0.196129627	98	0.2190777	110
Cumene	98-82-8	0.20	0.20	0.20	1.0	Y	1.0	0.1919965	96	0.194614906	97	0.2096771	105
Cyclohexane	110-82-7	0.20	0.20	0.20	1.0	Y	1.0	0.2122781	106	0.192938431	96	0.2086209	104
Dibromochloromethane	124-48-1	0.20	0.20	0.20	1.0	Y	1.0	0.1740128	87	0.169791393	85	0.2171467	109
Dibromomethane	74-95-3	0.20	0.20	0.20	1.0	Y	1.0	0.1859379	93	0.186893166	93	0.2350577	118
Dichlorodifluoromethane	75-71-8	0.50	0.50	0.50	1.0	Y	1.0	0.6652969	133	0.605556406	121	0.5640332	113
Ethanol	64-17-5	5.0	5.0	5.0	1.0	Y	1.0	6.414391	128	4.588677443	92	4.5392526	91
Ethyl acetate	141-78-6	5.0	5.0	5.0	1.0	Y	1.0	5.1923032	104	4.050578521	81	5.2451261	105
Ethyl ether	60-29-7	0.20	0.20	0.20	1.0	Y	1.0	0.2113528	106	0.199897571	100	0.1967665	98
Ethylbenzene	100-41-4	0.20	0.20	0.20	1.0	Y	1.0	0.2100009	105	0.192919809	96	0.2107844	105
Freon 22	75-45-6	0.50	0.50	0.50	1.0	Y	1.0	0.6807316	136	0.534866731	107	0.5578464	112
Freon TF	76-13-1	0.20	0.20	0.20	1.0	Y	1.0	0.219404	110	0.210084144	105	0.2112665	106
Hexachlorobutadiene	87-68-3	0.20	0.20	0.20	1.0	Y	1.0	0.1960653	98	0.210306905	105	0.2692485	135
Isopentane	78-78-4	0.20	0.20	0.20	1.0	Y	1.0	0.2693743	135	0.242683191	121	0.2101781	105
Isopropyl alcohol	67-63-0	5.0	5.0	5.0	1.0	Y	1.0	5.7955138	116	4.748712087	95	5.8711771	118
m,p-Xylene	179601-23-1	0.40	0.40	0.40	1.0	Y	1.0	0.4079192	102	0.373681854	93	0.4171524	104
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.50	0.50	0.50	1.0	Y	1.0	0.4598035	92	0.432799764	87	0.5299716	106
Methyl Ethyl Ketone	78-93-3	0.50	0.50	0.50	1.0	Y	1.0	0.5817211	116	0.513150981	103	0.5314954	106
Methyl isobutyl ketone	108-10-1	0.50	0.50	0.50	1.0	Y	1.0	0.5368203	107	0.465013224	93	0.4965566	99
Methyl methacrylate	80-62-6	0.50	0.50	0.50	1.0	Y	1.0	0.4559876	91	0.422457781	84	0.4628928	93
Methyl tert-butyl ether	1634-04-4	0.20	0.20	0.20	1.0	Y	1.0	0.2109562	105	0.215864572	108	0.1961266	98
Methylene Chloride	75-09-2	0.50	0.50	0.50	1.0	Y	1.0	0.6933183	139	0.560089251	112	0.5694856	114
Naphthalene	91-20-3	0.50	0.50	0.50	1.0	Y	1.0	0.380915	76	0.427072059	85	0.3103585	62
n-Butane	106-97-8	0.50	0.50	0.50	1.0	Y	1.0	0.6783094	136	0.525345233	105	0.5107488	102
n-Butanol	71-36-3	5.0	5.0	5.0	1.0	Y	1.0	5.2636989	105	4.63588975	93	5.4638248	109
n-Butylbenzene	104-51-8	0.20	0.20	0.20	1.0	Y	1.0	0.216894	108	0.157349697	79	0.1672985	84
n-Decane	124-18-5	0.50	0.50	0.50	1.0	Y	1.0	0.625222	125	0.307285191	61	0.432654	87
n-Dodecane	112-40-3	5.0	5.0	5.0	1.0	Y	1.0	6.5131796	131	2.645476656	53	4.6162814	93
n-Heptane	142-82-5	0.20	0.20	0.20	1.0	Y	1.0	0.2393929	120	0.185069607	93	0.2075883	104
n-Hexane	110-54-3	0.20	0.20	0.20	1.0	Y	1.0	0.2256931	113	0.194778498	97	0.2108638	105

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		NJEPLLT015		Prep Date:		01/30/12, 01/31/12, 02/		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		C					
CLEANUP METHOD(S):		NA		Final Amount:		200 mL		RTX-624					
MATRIX:		AIR		LOQ		Pass		B		C		G	
ANALYTE	CAS #	ppbv	Spike ppbv	Ratio	LOQ	Pass	Result ppbv	%R	Result ppbv	%R	Result ppbv	%R	
n-Nonane	111-84-2	0.20	0.20	1.0	Y	Y	0.233004	117	0.169124795	85	0.1954915	98	
n-Octane	111-65-9	0.50	0.50	1.0	Y	Y	0.6737594	135	0.448385812	90	0.4802081	96	
n-Pentane	109-66-0	0.50	0.50	1.0	Y	Y	0.6811029	136	0.489728166	98	0.4541239	91	
n-Propylbenzene	103-65-1	0.20	0.20	1.0	Y	Y	0.2176803	109	0.180087873	90	0.2056518	103	
n-Undecane	1120-21-4	5.0	5.0	1.0	Y	Y	7.0288046	141	5.340271543	107	4.2634973	85	
Propylene	115-07-1	5.0	5.0	1.0	Y	Y	6.2890372	126	4.963429273	99	5.0779861	102	
sec-Butylbenzene	135-98-8	0.20	0.20	1.0	Y	Y	0.2136936	107	0.186399819	93	0.1992368	100	
Styrene	100-42-5	0.20	0.20	1.0	Y	Y	0.1610885	81	0.168681925	84	0.1825784	91	
tert-Butyl alcohol	75-65-0	5.0	5.0	1.0	Y	Y	5.7298763	115	4.769935009	96	5.8027565	116	
tert-Butylbenzene	98-06-6	0.20	0.20	1.0	Y	Y	0.2031567	102	0.187843873	94	0.2195841	110	
Tetrachloroethene	127-18-4	0.20	0.20	1.0	Y	Y	0.18203	91	0.191830153	96	0.26346	132	
Tetrahydrofuran	109-99-9	5.0	5.0	1.0	Y	Y	6.4020166	128	4.179536752	84	4.9814126	100	
Toluene	108-88-3	0.20	0.20	1.0	Y	Y	0.2146481	107	0.193888307	97	0.2518171	126	
trans-1,2-Dichloroethene	156-60-5	0.20	0.20	1.0	Y	Y	0.2281665	114	0.191509899	96	0.2067603	103	
trans-1,3-Dichloropropene	10061-02-6	0.20	0.20	1.0	Y	Y	0.1920366	96	0.186799607	93	0.234312	117	
Trichloroethene	79-01-6	0.040	0.040	1.0	Y	Y	0.0459406	115	0.047078137	117	0.047473	118	
Trichlorofluoromethane	75-69-4	0.20	0.20	1.0	Y	Y	0.2293409	115	0.217889263	109	0.2307896	115	
Vinyl acetate	108-05-4	5.0	5.0	1.0	Y	Y	6.2197289	125	4.530989643	91	5.5677659	112	
Vinyl chloride	75-01-4	0.040	0.040	1.0	Y	Y	0.0455769	114	0.037653748	94	0.048425	121	
Xylene, o-	95-47-6	0.20	0.20	1.0	Y	Y	0.1900893	95	0.194634968	97	0.2085756	104	

Note: Pass = The %R on each instrument is within 50-150%

Method T015 Low Level - New Jersey

Volatile Organic Compounds - Low
level (GC/MS) by New Jersey Method
TO 15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-17825-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: cltt05.d
 Lab ID: LCS 200-59928/4 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	0.200	0.220	110	60-140	
1,1-Dichloroethene	0.200	0.195 J	97	60-140	
1,2-Dichloroethene, trans-	0.200	0.198 J	99	60-140	
1,1-Dichloroethane	0.200	0.199 J	100	60-140	
1,2-Dichloroethene, cis-	0.200	0.192 J	96	60-140	
1,1,1-Trichloroethane	0.200	0.207	103	60-140	
Carbon tetrachloride	0.200	0.215	107	60-140	
1,2-Dichloroethane	0.200	0.209	104	60-140	
Trichloroethene	0.200	0.200	100	60-140	
Tetrachloroethene	0.200	0.202	101	60-140	

Column to be used to flag recovery and RPD values

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-17825-1
 SDG No.: _____
 Lab File ID: cltt04.d Lab Sample ID: MB 200-59928/3
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: C.i Date Analyzed: 08/16/2013 14:23
 GC Column: RTX-624 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-59928/4	cltt05.d	08/16/2013 15:16
AA-080613-SGP-01	200-17825-1	cltt21.d	08/17/2013 05:19
SG-080613-SGP-01	200-17825-2	cltt22.d	08/17/2013 06:11

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-17825-1
 SDG No.: _____
 Lab File ID: clt01.d BFB Injection Date: 07/21/2013
 Instrument ID: C.i BFB Injection Time: 09:57
 Analysis Batch No.: 58772

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	17.0	
75	30.0 - 66.0% of mass 95	48.3	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	7.0	
173	Less than 2.0% of mass 174	0.3	(0.5) 1
174	50.0 - 120.0% of mass 95	64.8	
175	4.0 - 9.0 % of mass 174	4.5	(7.0) 1
176	93.0 - 101.0% of mass 174	62.1	(95.9) 1
177	5.0 - 9.0% of mass 176	4.1	(6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-58772/2	clt04.d	07/21/2013	12:36
	IC 200-58772/3	clt05.d	07/21/2013	13:28
	IC 200-58772/4	clt06.d	07/21/2013	14:21
	ICIS 200-58772/5	clt07.d	07/21/2013	15:13
	IC 200-58772/6	clt08.d	07/21/2013	16:06
	IC 200-58772/7	clt09.d	07/21/2013	16:58
	IC 200-58772/8	clt10.d	07/21/2013	17:50
	ICV 200-58772/10	clt17.d	07/22/2013	08:15

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-17825-1
 SDG No.: _____
 Lab File ID: cltt01.d BFB Injection Date: 08/16/2013
 Instrument ID: C.i BFB Injection Time: 11:41
 Analysis Batch No.: 59928

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	17.6	
75	30.0 - 66.0% of mass 95	51.1	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.2	(0.3) 1
174	50.0 - 120.0% of mass 95	71.8	
175	4.0 - 9.0 % of mass 174	5.0	(7.0) 1
176	93.0 - 101.0% of mass 174	69.5	(96.9) 1
177	5.0 - 9.0% of mass 176	4.6	(6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-59928/2	cltt02.d	08/16/2013	12:35
	MB 200-59928/3	cltt04.d	08/16/2013	14:23
	LCS 200-59928/4	cltt05.d	08/16/2013	15:16
	LCS 200-59928/5	cltt06.d	08/16/2013	16:09
	LCS 200-59928/6	cltt07.d	08/16/2013	17:01
AA-080613-SGP-01	200-17825-1	cltt21.d	08/17/2013	05:19
SG-080613-SGP-01	200-17825-2	cltt22.d	08/17/2013	06:11
	CCVC 200-59928/23	cltt25.d	08/17/2013	08:50

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-17825-1
 SDG No.: _____
 Sample No.: ICIS 200-58772/5 Date Analyzed: 07/21/2013 15:13
 Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): clt07.d Heated Purge: (Y/N) N
 Calibration ID: 22549

	BCM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	311065	11.03	1572029	12.86	1353148	18.32
UPPER LIMIT	435491	11.36	2200841	13.19	1894407	18.65
LOWER LIMIT	186639	10.70	943217	12.53	811889	17.99
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-58772/10	367634	11.03	1861545	12.85	1681935	18.32

BCM = Chlorobromomethane
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-17825-1
 SDG No.: _____
 Sample No.: CCVIS 200-59928/2 Date Analyzed: 08/16/2013 12:35
 Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): cltt02.d Heated Purge: (Y/N) N
 Calibration ID: 22549

	BCM		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	191302	11.02	952717	12.84	882624	18.31	
UPPER LIMIT	267823	11.35	1333804	13.17	1235674	18.64	
LOWER LIMIT	114781	10.69	571630	12.51	529574	17.98	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 200-59928/3	199058	11.01	1012723	12.84	923102	18.30	
LCS 200-59928/4	193318	11.01	938607	12.84	834919	18.30	
LCS 200-59928/5	176849	11.02	873144	12.84	767801	18.30	
LCS 200-59928/6	177907	11.02	885075	12.84	825432	18.30	
200-17825-1	AA-080613-SGP-01	190325	11.01	943023	12.84	877660	18.30
200-17825-2	SG-080613-SGP-01	179137	11.01	905819	12.84	856731	18.30
CCVC 200-59928/23		175758	11.01	905109	12.84	880397	18.30

BCM = Chlorobromomethane
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-17825-1
 SDG No.: _____
 Client Sample ID: AA-080613-SGP-01 Lab Sample ID: 200-17825-1
 Matrix: Air Lab File ID: cltt21.d
 Analysis Method: TO15LL/NJ Date Collected: 08/06/2013 13:14
 Sample wt/vol: 20 (mL) Date Analyzed: 08/17/2013 05:19
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 59928 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	2.0	U	2.0	0.091
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.86
156-60-5	1,2-Dichloroethene, trans-	2.0	U	2.0	0.23
75-34-3	1,1-Dichloroethane	2.0	U	2.0	0.23
156-59-2	1,2-Dichloroethene, cis-	2.0	U	2.0	0.84
71-55-6	1,1,1-Trichloroethane	2.0	U	2.0	0.20
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.13
107-06-2	1,2-Dichloroethane	2.0	U	2.0	0.18
79-01-6	Trichloroethene	2.0	U	2.0	0.092
127-18-4	Tetrachloroethene	2.0	U	2.0	0.15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-17825-1
 SDG No.: _____
 Client Sample ID: SG-080613-SGP-01 Lab Sample ID: 200-17825-2
 Matrix: Air Lab File ID: cltt22.d
 Analysis Method: TO15LL/NJ Date Collected: 08/06/2013 13:14
 Sample wt/vol: 92 (mL) Date Analyzed: 08/17/2013 06:11
 Soil Aliquot Vol: _____ Dilution Factor: 9.96
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 59928 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	2.0	U	2.0	0.091
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.86
156-60-5	1,2-Dichloroethene, trans-	3.5		2.0	0.23
75-34-3	1,1-Dichloroethane	2.0	U	2.0	0.23
156-59-2	1,2-Dichloroethene, cis-	9.0		2.0	0.84
71-55-6	1,1,1-Trichloroethane	5.8		2.0	0.20
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.13
107-06-2	1,2-Dichloroethane	2.0	U	2.0	0.18
79-01-6	Trichloroethene	55		2.0	0.092
127-18-4	Tetrachloroethene	310		2.0	0.15

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-17825-1 Analy Batch No.: 58772

SDG No.: _____

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/21/2013 12:36 Calibration End Date: 07/21/2013 17:50 Calibration ID: 22549

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-58772/2	clt04.d
Level 2	IC 200-58772/3	clt05.d
Level 3	IC 200-58772/4	clt06.d
Level 4	ICIS 200-58772/5	clt07.d
Level 5	IC 200-58772/6	clt08.d
Level 6	IC 200-58772/7	clt09.d
Level 7	IC 200-58772/8	clt10.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Dichlorodifluoromethane	3.5153	4.2791 3.2135	4.2421	3.8387	3.7548	Ave	3.8073				10.8		30.0				
1,2-Dichlorotetrafluoroethane	3.3118 3.0255	3.5557 2.7521	3.5515	3.2309	3.1796	Ave	3.2296				8.8		30.0				
Chloromethane	0.6228	0.8837 0.5573	0.8044	0.7141	0.6667	Ave	0.7082				16.9		30.0				
Vinyl chloride	0.9137 0.7912	0.9802 0.7150	0.9734	0.8712	0.8494	Ave	0.8706				11.0		30.0				
1,3-Butadiene	0.6854 0.5716	0.6811 0.5205	0.7085	0.6283	0.6146	Ave	0.6300				10.7		30.0				
Bromomethane	0.9953 0.8905	1.0047 0.8228	1.0016	0.9204	0.9243	Ave	0.9371				7.3		30.0				
Chloroethane	0.3767	0.4676 0.3398	0.4590	0.4122	0.3985	Ave	0.4090				11.9		30.0				
Vinyl bromide	1.0043 0.9887	1.0209 0.9473	1.0700	1.0033	1.0127	Ave	1.0068				3.7		30.0				
Trichlorofluoromethane	3.7989 3.4115	3.9470 3.1896	3.9754	3.6453	3.5979	Ave	3.6522				7.8		30.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	2.2146 2.0462	2.2341 1.9401	2.2723	2.1045	2.1437	Ave	2.1365				5.5		30.0				
1,1-Dichloroethene	0.9269 0.9190	0.9986 0.8775	0.9897	0.9344	0.9474	Ave	0.9419				4.4		30.0				
Acetone	0.9339	0.8580	1.1604	1.0745	1.0447	Ave	1.0143				11.7		30.0				
Carbon disulfide	2.5319	2.8321 2.3962	2.8433	2.7010	2.6349	Ave	2.6565				6.6		30.0				
Isopropanol	0.7025	0.6675	0.8957	0.7257	0.7673	Ave	0.7517				11.7		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-17825-1 Analy Batch No.: 58772

SDG No.: _____

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/21/2013 12:36 Calibration End Date: 07/21/2013 17:50 Calibration ID: 22549

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Allyl chloride	0.9486 0.8993	1.0770 0.8101	1.0699	1.0034	0.8869	Ave		0.9565			10.4		30.0				
Methylene Chloride		1.1193 0.7047	0.9869	0.8729	0.8413	Ave		0.8835			16.9		30.0				
tert-Butyl alcohol			1.6051	1.2686	1.3457	Ave		1.3477			11.0		30.0				
Methyl tert-butyl ether	1.2758	1.2435															
	2.4501 2.4532	2.8216 2.3665	2.7072	2.5419	2.6600	Ave		2.5715			6.4		30.0				
1,2-Dichloroethene, trans-	1.4587 1.2848	1.5283 1.1671	1.5381	1.4047	1.3630	Ave		1.3921			9.6		30.0				
n-Hexane	1.4294 1.2309	1.3693 1.1242	1.4426	1.3264	1.3079	Ave		1.3187			8.5		30.0				
1,1-Dichloroethane	1.8118 1.6250	1.8553 1.4945	1.9267	1.7396	1.7194	Ave		1.7389			8.4		30.0				
1,2-Dichloroethene, cis-	1.1007 1.0440	1.1175 1.0031	1.1228	1.0517	1.0711	Ave		1.0730			4.1		30.0				
Methyl Ethyl Ketone		0.3913 0.3398	0.3704	0.3479	0.3697	Ave		0.3609			5.4		30.0				
Tetrahydrofuran			0.1458	0.1324	0.1316	Ave		0.1301			8.2		30.0				
	0.1231	0.1176															
Chloroform	2.5705 2.4018	2.7061 2.2291	2.7364	2.5262	2.5049	Ave		2.5250			6.9		30.0				
1,1,1-Trichloroethane	0.6234 0.5881	0.6282 0.5588	0.6742	0.6190	0.5957	Ave		0.6125			6.0		30.0				
Cyclohexane	0.3740 0.2704	0.2796 0.2605	0.3026	0.2796	0.2698	Ave		0.2909			13.4		30.0				
Carbon tetrachloride	0.6339 0.6444	0.6378 0.6213	0.7194	0.6677	0.6510	Ave		0.6536			5.0		30.0				
Benzene	0.6497 0.5782	0.6342 0.5495	0.6489	0.5918	0.5746	Ave		0.6038			6.6		30.0				
2,2,4-Trimethylpentane	0.8609 0.7881	0.8622 0.7286	0.9384	0.8549	0.8060	Ave		0.8341			8.0		30.0				
1,2-Dichloroethane	0.3470 0.3211	0.3623 0.2969	0.3910	0.3549	0.3349	Ave		0.3440			8.8		30.0				
n-Heptane	0.2744 0.2552	0.2863 0.2303	0.3202	0.2866	0.2654	Ave		0.2740			10.3		30.0				
Trichloroethene	0.3008 0.3105	0.3178 0.3003	0.3454	0.3227	0.3081	Ave		0.3151			5.0		30.0				
1,2-Dichloropropane	0.1968 0.1795	0.1990 0.1646	0.2058	0.1885	0.1827	Ave		0.1881			7.4		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-17825-1 Analy Batch No.: 58772

SDG No.: _____

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/21/2013 12:36 Calibration End Date: 07/21/2013 17:50 Calibration ID: 22549

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methyl methacrylate	0.1590	0.1315 0.1607	0.1602	0.1565	0.1662	Ave		0.1557			7.9		30.0				
1,4-Dioxane	0.0722	0.0703	0.0848	0.0723	0.0759	Ave		0.0751			7.7		30.0				
Bromodichloromethane	0.4841 0.5400	0.5127 0.5044	0.6060	0.5626	0.5466	Ave		0.5366			7.6		30.0				
1,3-Dichloropropene, cis-	0.3218 0.3338	0.3217 0.3133	0.3574	0.3369	0.3381	Ave		0.3319			4.4		30.0				
Methyl isobutyl ketone	0.2442	0.2323 0.2367	0.3055	0.2585	0.2517	Ave		0.2548			10.4		30.0				
Toluene	0.5125 0.4975	0.5009 0.4468	0.5453	0.4960	0.4668	Ave		0.4951			6.4		30.0				
1,3-Dichloropropene, trans-	0.3058 0.3564	0.3214 0.3429	0.3729	0.3539	0.3630	Ave		0.3452			6.9		30.0				
1,1,2-Trichloroethane	0.2280 0.2315	0.2434 0.2040	0.2594	0.2346	0.2171	Ave		0.2311			7.7		30.0				
Tetrachloroethene	0.5681 0.6478	0.5773 0.5834	0.6792	0.6370	0.5876	Ave		0.6115			7.0		30.0				
Dibromochloromethane	0.4899 0.6873	0.5244 0.6256	0.7103	0.6740	0.6330	Ave		0.6206			13.5		30.0				
1,2-Dibromoethane	0.4202 0.5115	0.4440 0.4604	0.5386	0.4987	0.4716	Ave		0.4779			8.6		30.0				
Chlorobenzene	0.7113 0.7508	0.7207 0.6840	0.8019	0.7278	0.6892	Ave		0.7265			5.5		30.0				
Ethylbenzene	1.0276 1.1087	1.0603 1.0264	1.1984	1.1146	1.0508	Ave		1.0839			5.7		30.0				
m-Xylene & p-Xylene	0.4037 0.4583	0.4152 0.4245	0.4791	0.4534	0.4331	Ave		0.4382			6.1		30.0				
o-Xylene	0.4032 0.4361	0.3938 0.4108	0.4628	0.4330	0.4142	Ave		0.4220			5.6		30.0				
Styrene	0.4014 0.6805	0.4284 0.6569	0.6559	0.6436	0.6336	Ave		0.5858			20.1		30.0				
Bromoform	0.4341 0.7500	0.4727 0.6996	0.7329	0.7139	0.6908	Ave		0.6420			20.4		30.0				
1,1,2,2-Tetrachloroethane	0.5124 0.5551	0.5446 0.5076	0.6333	0.5749	0.5322	Ave		0.5515			7.8		30.0				
2-Chlorotoluene	0.9737 1.1260	1.0267 0.9849	1.2579	1.1511	1.0795	Ave		1.0857			9.3		30.0				
4-Ethyltoluene	0.9422 1.3391	1.0649 1.2428	1.4106	1.3286	1.2861	Ave		1.2306			13.6		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-17825-1 Analy Batch No.: 58772

SDG No.: _____

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/21/2013 12:36 Calibration End Date: 07/21/2013 17:50 Calibration ID: 22549

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3,5-Trimethylbenzene	0.9026 1.1537	0.9427 1.1068	1.2300	1.1433	1.1017	Ave		1.0830			10.9		30.0				
1,2,4-Trimethylbenzene	0.8265 1.1429	0.8586 1.0985	1.2089	1.1287	1.0927	Ave		1.0509			14.1		30.0				
1,3-Dichlorobenzene	0.7005 0.9221	0.6382 0.8269	0.9076	0.8688	0.8691	Ave		0.8190			13.2		30.0				
1,4-Dichlorobenzene	0.6514 0.8825	0.5998 0.8865	0.8629	0.8054	0.8216	Ave		0.7871			14.6		30.0				
1,2-Dichlorobenzene	0.6345 0.8802	0.6018 0.8050	0.8779	0.8356	0.8321	Ave		0.7810			14.7		30.0				
1,2,4-Trichlorobenzene	0.5501	0.1899 0.5805	0.5741	0.4559	0.5122	Ave		0.4771			31.0	*	30.0				
Hexachlorobutadiene	0.4619 0.6727	0.4692 0.5877	0.6777	0.6627	0.6552	Ave		0.5982			15.9		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-17825-1 Analy Batch No.: 58772

SDG No.: _____

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/21/2013 12:36 Calibration End Date: 07/21/2013 17:50 Calibration ID: 22549

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-58772/2	clt04.d
Level 2	IC 200-58772/3	clt05.d
Level 3	IC 200-58772/4	clt06.d
Level 4	ICIS 200-58772/5	clt07.d
Level 5	IC 200-58772/6	clt08.d
Level 6	IC 200-58772/7	clt09.d
Level 7	IC 200-58772/8	clt10.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	BCM	Ave	2633185	61874 5270321	608464	1194074	1905236	20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichlorotetrafluoroethane	BCM	Ave	20863 2266305	51414 4513587	509409	1005015	1613390	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chloromethane	BCM	Ave	466550	12778 914024	115382	222138	338316	20.0	0.500 40.0	5.00	10.0	15.0
Vinyl chloride	BCM	Ave	5756 592677	14174 1172672	139623	270991	430997	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Butadiene	BCM	Ave	4318 428149	9849 853647	101626	195453	311850	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromomethane	BCM	Ave	6270 667069	14527 1349507	143659	286292	469018	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chloroethane	BCM	Ave	282163	6761 557297	65835	128233	202180	20.0	0.500 40.0	5.00	10.0	15.0
Vinyl bromide	BCM	Ave	6327 740620	14762 1553609	153468	312088	513872	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Trichlorofluoromethane	BCM	Ave	23932 2555445	57073 5231078	570200	1133933	1825621	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2-Trichloro-1,2,2-trifluoroethane	BCM	Ave	13951 1532694	32305 3181891	325924	654636	1087757	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1-Dichloroethene	BCM	Ave	5839 688369	14440 1439149	141962	290654	480745	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acetone	BCM	Ave	699568	1407140	166438	334230	530077	20.0	40.0	5.00	10.0	15.0
Carbon disulfide	BCM	Ave	1896520	40951 3929795	407816	840182	1336967	20.0	0.500 40.0	5.00	10.0	15.0
Isopropanol	BCM	Ave	526199	1094651	128477	225725	389354	20.0	40.0	5.00	10.0	15.0
Allyl chloride	BCM	Ave	5976 673660	15573 1328663	153457	312131	450019	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-17825-1 Analy Batch No.: 58772

SDG No.: _____

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/21/2013 12:36 Calibration End Date: 07/21/2013 17:50 Calibration ID: 22549

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methylene Chloride	BCM	Ave	581131	16185 1155791	141561	271534	426883	20.0	0.500 40.0	5.00	10.0	15.0
tert-Butyl alcohol	BCM	Ave	955645	2039456	230219	394626	682803	20.0	40.0	5.00	10.0	15.0
Methyl tert-butyl ether	BCM	Ave	15435 1837606	40799 3881164	388301	790698	1349728	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloroethene, trans-	BCM	Ave	9189 962373	22099 1914172	220619	436955	691608	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Hexane	BCM	Ave	9005 922040	19800 1843721	206916	412582	663661	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1-Dichloroethane	BCM	Ave	11414 1217233	26827 2451006	276351	541140	872458	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloroethene, cis-	BCM	Ave	6934 782017	16159 1645203	161047	327159	543482	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl Ethyl Ketone	BCM	Ave	259493	5658 557289	53126	108225	187610	20.0	0.500 40.0	5.00	10.0	15.0
Tetrahydrofuran	DFB	Ave	466129	955676	104626	208075	350943	20.0	40.0	5.00	10.0	15.0
Chloroform	BCM	Ave	16193 1799086	39130 3655816	392491	785817	1271025	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,1-Trichloroethane	DFB	Ave	20172 2227464	47157 4539829	483850	973070	1588594	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Cyclohexane	DFB	Ave	12102 1024169	20993 2116797	217204	439611	719467	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Carbon tetrachloride	DFB	Ave	20513 2440873	47878 5047486	516339	1049594	1736210	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Benzene	DFB	Ave	21022 2190206	47611 4464571	465695	930363	1532532	0.200 20.0	0.500 40.0	5.00	10.0	15.0
2,2,4-Trimethylpentane	DFB	Ave	27857 2985379	64724 5919275	673457	1343951	2149587	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloroethane	DFB	Ave	11227 1216162	27195 2412388	280608	557901	893048	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Heptane	DFB	Ave	8879 966570	21489 1871308	229814	450507	707829	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Trichloroethene	DFB	Ave	9735 1176051	23860 2439758	247909	507234	821581	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloropropane	DFB	Ave	6368 680077	14941 1337018	147708	296317	487367	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl methacrylate	DFB	Ave	602434	9868 1305880	114938	245968	443181	20.0	0.500 40.0	5.00	10.0	15.0
1,4-Dioxane	DFB	Ave	273502	571359	60879	113706	202411	20.0	40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-17825-1 Analy Batch No.: 58772

SDG No.: _____

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/21/2013 12:36 Calibration End Date: 07/21/2013 17:50 Calibration ID: 22549

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Bromodichloromethane	DFB	Ave	15665 2045278	38485 4097969	434945	884356	1457717	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichloropropene, cis-	DFB	Ave	10412 1264389	24152 2545481	256512	529549	901689	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl isobutyl ketone	DFB	Ave	924918	17437 1922996	219269	406301	671356	20.0	0.500 40.0	5.00	10.0	15.0
Toluene	CBZ	Ave	14884 1648784	33157 3450998	326997	671152	1173635	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichloropropene, trans-	DFB	Ave	9895 1349932	24127 2785661	267613	556270	968122	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2-Trichloroethane	CBZ	Ave	6621 767101	16114 1575276	155534	317427	545678	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Tetrachloroethene	CBZ	Ave	16500 2147001	38214 4505736	407292	861941	1477154	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Dibromochloromethane	CBZ	Ave	14227 2278096	34707 4831787	425948	912014	1591331	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dibromoethane	CBZ	Ave	12204 1695397	29389 3555701	322966	674782	1185629	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chlorobenzene	CBZ	Ave	20657 2488286	47701 5283397	480885	984885	1732589	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Ethylbenzene	CBZ	Ave	29845 3674741	70180 7928067	718639	1508267	2641748	0.200 20.0	0.500 40.0	5.00	10.0	15.0
m-Xylene & p-Xylene	CBZ	Ave	23446 3037812	54958 6557254	574585	1226960	2177839	0.400 40.0	1.00 80.0	10.0	20.0	30.0
o-Xylene	CBZ	Ave	11711 1445458	26063 3172562	277536	585960	1041353	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Styrene	CBZ	Ave	11657 2255545	28357 5074025	393339	870926	1592767	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromoform	CBZ	Ave	12608 2485834	31289 5403858	439506	966079	1736710	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	14882 1839912	36048 3920463	379794	777917	1338076	0.200 20.0	0.500 40.0	5.00	10.0	15.0
2-Chlorotoluene	CBZ	Ave	28279 3732074	67957 7607130	754346	1557615	2713846	0.200 20.0	0.500 40.0	5.00	10.0	15.0
4-Ethyltoluene	CBZ	Ave	27364 4438227	70483 9599377	845875	1797812	3233380	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3,5-Trimethylbenzene	CBZ	Ave	26213 3823792	62397 8548705	737581	1547070	2769560	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2,4-Trimethylbenzene	CBZ	Ave	24002 3787999	56828 8484581	724913	1527264	2746998	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichlorobenzene	CBZ	Ave	20344 3056022	42241 6386707	544277	1175582	2184975	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-17825-1 Analy Batch No.: 58772

SDG No.: _____

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/21/2013 12:36 Calibration End Date: 07/21/2013 17:50 Calibration ID: 22549

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
1,4-Dichlorobenzene	CBZ	Ave	18919 2924811	39701 6846841	517428	1089866	2065465	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichlorobenzene	CBZ	Ave	18427 2917122	39834 6217789	526428	1130663	2091966	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2,4-Trichlorobenzene	CBZ	Ave	1823056	12572 4483290	344272	616839	1287574	20.0	0.500 40.0	5.00	10.0	15.0
Hexachlorobutadiene	CBZ	Ave	13414 2229460	31058 4538930	406413	896796	1647069	0.200 20.0	0.500 40.0	5.00	10.0	15.0

Curve Type Legend:

Ave = Average ISTD

FORM III
AIR - GC/MS VOA INITIAL CALIBRATION VERIFICATION RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-17825-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: clt17.d
 Lab ID: ICV 200-58772/10 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	ICV CONCENTRATION (ppb v/v)	ICV % REC	QC LIMITS REC	#
Vinyl chloride	10.0	11.0	110	70-130	
1,1-Dichloroethene	10.0	12.0	120	70-130	
1,2-Dichloroethene, trans-	10.0	10.4	104	70-130	
1,1-Dichloroethane	10.0	10.3	103	70-130	
1,2-Dichloroethene, cis-	10.0	11.0	110	70-130	
1,1,1-Trichloroethane	10.0	10.2	102	70-130	
Carbon tetrachloride	10.0	10.2	102	70-130	
1,2-Dichloroethane	10.0	10.0	100	70-130	
Trichloroethene	10.0	10.4	104	70-130	
Tetrachloroethene	10.0	10.0	100	70-130	

Column to be used to flag recovery and RPD values

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-17825-1
 SDG No.: _____
 Lab Sample ID: CCVIS 200-59928/2 Calibration Date: 08/16/2013 12:35
 Instrument ID: C.i Calib Start Date: 07/21/2013 12:36
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 07/21/2013 17:50
 Lab File ID: cltt02.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	3.807	4.274		11.2	10.0	12.3	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.230	3.285		10.2	10.0	1.7	30.0
Chloromethane	Ave	0.7082	0.6905		9.75	10.0	-2.5	30.0
Vinyl chloride	Ave	0.8706	0.8830		10.1	10.0	1.4	30.0
1,3-Butadiene	Ave	0.6300	0.6659		10.6	10.0	5.7	30.0
Bromomethane	Ave	0.9371	0.9605		10.2	10.0	2.5	30.0
Chloroethane	Ave	0.4090	0.4339		10.6	10.0	6.1	30.0
Vinyl bromide	Ave	1.007	0.9909		9.84	10.0	-1.6	30.0
Trichlorofluoromethane	Ave	3.652	3.795		10.4	10.0	3.9	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.137	2.079		9.73	10.0	-2.7	30.0
1,1-Dichloroethene	Ave	0.9419	0.8948		9.50	10.0	-5.0	30.0
Acetone	Ave	1.014	1.090		10.7	10.0	7.4	30.0
Carbon disulfide	Ave	2.657	2.590		9.75	10.0	-2.5	30.0
Isopropanol	Ave	0.7517	0.7967		10.6	10.0	6.0	30.0
Allyl chloride	Ave	0.9565	0.8157		8.53	10.0	-14.7	30.0
Methylene Chloride	Ave	0.8835	0.8351		9.45	10.0	-5.5	30.0
tert-Butyl alcohol	Ave	1.348	1.460		10.8	10.0	8.3	30.0
Methyl tert-butyl ether	Ave	2.572	2.440		9.49	10.0	-5.1	30.0
1,2-Dichloroethene, trans-	Ave	1.392	1.316		9.45	10.0	-5.5	30.0
n-Hexane	Ave	1.319	1.231		9.33	10.0	-6.7	30.0
1,1-Dichloroethane	Ave	1.739	1.640		9.43	10.0	-5.7	30.0
1,2-Dichloroethene, cis-	Ave	1.073	1.003		9.35	10.0	-6.5	30.0
Methyl Ethyl Ketone	Ave	0.3609	0.3375		9.35	10.0	-6.5	30.0
Tetrahydrofuran	Ave	0.1301	0.1252		9.62	10.0	-3.8	30.0
Chloroform	Ave	2.525	2.454		9.72	10.0	-2.8	30.0
1,1,1-Trichloroethane	Ave	0.6125	0.6316		10.3	10.0	3.1	30.0
Cyclohexane	Ave	0.2909	0.2644		9.08	10.0	-9.1	30.0
Carbon tetrachloride	Ave	0.6536	0.7181		11.0	10.0	9.9	30.0
Benzene	Ave	0.6038	0.5529		9.15	10.0	-8.4	30.0
2,2,4-Trimethylpentane	Ave	0.8341	0.7880		9.44	10.0	-5.5	30.0
1,2-Dichloroethane	Ave	0.3440	0.3543		10.3	10.0	3.0	30.0
n-Heptane	Ave	0.2740	0.2674		9.76	10.0	-2.4	30.0
Trichloroethene	Ave	0.3151	0.3060		9.71	10.0	-2.9	30.0
1,2-Dichloropropane	Ave	0.1881	0.1806		9.60	10.0	-4.0	30.0
Methyl methacrylate	Ave	0.1557	0.1472		9.46	10.0	-5.4	30.0
1,4-Dioxane	Ave	0.0751	0.0734		9.77	10.0	-2.3	30.0
Bromodichloromethane	Ave	0.5366	0.5656		10.5	10.0	5.4	30.0
1,3-Dichloropropene, cis-	Ave	0.3319	0.3325		10.0	10.0	0.2	30.0
Methyl isobutyl ketone	Ave	0.2548	0.2777		10.9	10.0	9.0	30.0
Toluene	Ave	0.4951	0.4667		9.42	10.0	-5.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-17825-1
 SDG No.: _____
 Lab Sample ID: CCVIS 200-59928/2 Calibration Date: 08/16/2013 12:35
 Instrument ID: C.i Calib Start Date: 07/21/2013 12:36
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 07/21/2013 17:50
 Lab File ID: cltt02.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropene, trans-	Ave	0.3452	0.3523		10.2	10.0	2.1	30.0
1,1,2-Trichloroethane	Ave	0.2311	0.2190		9.48	10.0	-5.2	30.0
Tetrachloroethene	Ave	0.6115	0.6139		10.0	10.0	0.4	30.0
Dibromochloromethane	Ave	0.6206	0.6793		10.9	10.0	9.4	30.0
1,2-Dibromoethane	Ave	0.4779	0.4825		10.1	10.0	1.0	30.0
Chlorobenzene	Ave	0.7265	0.6959		9.58	10.0	-4.2	30.0
Ethylbenzene	Ave	1.084	1.006		9.28	10.0	-7.1	30.0
m-Xylene & p-Xylene	Ave	0.4382	0.4168		19.0	20.0	-4.9	30.0
o-Xylene	Ave	0.4220	0.4023		9.53	10.0	-4.7	30.0
Styrene	Ave	0.5858	0.5979		10.2	10.0	2.1	30.0
Bromoform	Ave	0.6420	0.7447		11.6	10.0	16.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5515	0.5211		9.45	10.0	-5.5	30.0
2-Chlorotoluene	Ave	1.086	1.069		9.85	10.0	-1.5	30.0
4-Ethyltoluene	Ave	1.231	1.217		9.89	10.0	-1.1	30.0
1,3,5-Trimethylbenzene	Ave	1.083	1.053		9.72	10.0	-2.8	30.0
1,2,4-Trimethylbenzene	Ave	1.051	1.043		9.93	10.0	-0.7	30.0
1,3-Dichlorobenzene	Ave	0.8190	0.8563		10.5	10.0	4.6	30.0
1,4-Dichlorobenzene	Ave	0.7871	0.8088		10.3	10.0	2.7	30.0
1,2-Dichlorobenzene	Ave	0.7810	0.8234		10.5	10.0	5.4	30.0
1,2,4-Trichlorobenzene	Ave	0.4771	0.5245		11.0	10.0	9.9	30.0
Hexachlorobutadiene	Ave	0.5982	0.7269		12.2	10.0	21.5	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-17825-1
 SDG No.: _____
 Lab Sample ID: CCVC 200-59928/23 Calibration Date: 08/17/2013 08:50
 Instrument ID: C.i Calib Start Date: 07/21/2013 12:36
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 07/21/2013 17:50
 Lab File ID: cltt25.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	3.807	4.407		11.6	10.0	15.7	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.230	3.363		10.4	10.0	4.1	30.0
Chloromethane	Ave	0.7082	0.7406		10.5	10.0	4.6	30.0
Vinyl chloride	Ave	0.8706	0.9616		11.0	10.0	10.5	30.0
1,3-Butadiene	Ave	0.6300	0.7151		11.3	10.0	13.5	30.0
Bromomethane	Ave	0.9371	1.018		10.9	10.0	8.6	30.0
Chloroethane	Ave	0.4090	0.4701		11.5	10.0	15.0	30.0
Vinyl bromide	Ave	1.007	1.029		10.2	10.0	2.2	30.0
Trichlorofluoromethane	Ave	3.652	4.051		11.1	10.0	10.9	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.137	2.191		10.3	10.0	2.5	30.0
1,1-Dichloroethene	Ave	0.9419	0.9662		10.3	10.0	2.6	30.0
Acetone	Ave	1.014	1.345		13.3	10.0	32.6*	30.0
Carbon disulfide	Ave	2.657	2.817		10.6	10.0	6.0	30.0
Isopropanol	Ave	0.7517	0.9171		12.2	10.0	22.0	30.0
Allyl chloride	Ave	0.9565	1.119		11.7	10.0	17.0	30.0
Methylene Chloride	Ave	0.8835	0.9394		10.6	10.0	6.3	30.0
tert-Butyl alcohol	Ave	1.348	1.631		12.1	10.0	21.0	30.0
Methyl tert-butyl ether	Ave	2.572	2.831		11.0	10.0	10.1	30.0
1,2-Dichloroethene, trans-	Ave	1.392	1.469		10.6	10.0	5.5	30.0
n-Hexane	Ave	1.319	1.360		10.3	10.0	3.1	30.0
1,1-Dichloroethane	Ave	1.739	1.815		10.4	10.0	4.4	30.0
1,2-Dichloroethene, cis-	Ave	1.073	1.075		10.0	10.0	0.2	30.0
Methyl Ethyl Ketone	Ave	0.3609	0.3914		10.8	10.0	8.5	30.0
Tetrahydrofuran	Ave	0.1301	0.1471		11.3	10.0	13.1	30.0
Chloroform	Ave	2.525	2.682		10.6	10.0	6.2	30.0
1,1,1-Trichloroethane	Ave	0.6125	0.6686		10.9	10.0	9.2	30.0
Cyclohexane	Ave	0.2909	0.2737		9.41	10.0	-5.9	30.0
Carbon tetrachloride	Ave	0.6536	0.7472		11.4	10.0	14.3	30.0
Benzene	Ave	0.6038	0.5844		9.68	10.0	-3.2	30.0
2,2,4-Trimethylpentane	Ave	0.8341	0.8481		10.2	10.0	1.7	30.0
1,2-Dichloroethane	Ave	0.3440	0.3797		11.0	10.0	10.4	30.0
n-Heptane	Ave	0.2740	0.2936		10.7	10.0	7.1	30.0
Trichloroethene	Ave	0.3151	0.3208		10.2	10.0	1.8	30.0
1,2-Dichloropropane	Ave	0.1881	0.1987		10.6	10.0	5.6	30.0
Methyl methacrylate	Ave	0.1557	0.1663		10.7	10.0	6.9	30.0
1,4-Dioxane	Ave	0.0751	0.0827		11.0	10.0	10.1	30.0
Bromodichloromethane	Ave	0.5366	0.5972		11.1	10.0	11.3	30.0
1,3-Dichloropropene, cis-	Ave	0.3319	0.3555		10.7	10.0	7.1	30.0
Methyl isobutyl ketone	Ave	0.2548	0.3127		12.3	10.0	22.7	30.0
Toluene	Ave	0.4951	0.4787		9.67	10.0	-3.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-17825-1
 SDG No.: _____
 Lab Sample ID: CCVC 200-59928/23 Calibration Date: 08/17/2013 08:50
 Instrument ID: C.i Calib Start Date: 07/21/2013 12:36
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 07/21/2013 17:50
 Lab File ID: cltt25.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropene, trans-	Ave	0.3452	0.3902		11.3	10.0	13.0	30.0
1,1,2-Trichloroethane	Ave	0.2311	0.2232		9.65	10.0	-3.4	30.0
Tetrachloroethene	Ave	0.6115	0.5926		9.69	10.0	-3.1	30.0
Dibromochloromethane	Ave	0.6206	0.6825		11.0	10.0	10.0	30.0
1,2-Dibromoethane	Ave	0.4779	0.4814		10.1	10.0	0.7	30.0
Chlorobenzene	Ave	0.7265	0.6876		9.46	10.0	-5.4	30.0
Ethylbenzene	Ave	1.084	1.057		9.75	10.0	-2.5	30.0
m-Xylene & p-Xylene	Ave	0.4382	0.4333		19.8	20.0	-1.1	30.0
o-Xylene	Ave	0.4220	0.4206		9.97	10.0	-0.3	30.0
Styrene	Ave	0.5858	0.6133		10.5	10.0	4.7	30.0
Bromoform	Ave	0.6420	0.7412		11.5	10.0	15.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5515	0.5516		10.0	10.0	0.0	30.0
2-Chlorotoluene	Ave	1.086	1.102		10.1	10.0	1.5	30.0
4-Ethyltoluene	Ave	1.231	1.279		10.4	10.0	4.0	30.0
1,3,5-Trimethylbenzene	Ave	1.083	1.119		10.3	10.0	3.3	30.0
1,2,4-Trimethylbenzene	Ave	1.051	1.107		10.5	10.0	5.3	30.0
1,3-Dichlorobenzene	Ave	0.8190	0.8651		10.6	10.0	5.6	30.0
1,4-Dichlorobenzene	Ave	0.7871	0.8184		10.4	10.0	4.0	30.0
1,2-Dichlorobenzene	Ave	0.7810	0.8381		10.7	10.0	7.3	30.0
1,2,4-Trichlorobenzene	Ave	0.4771	0.5333		11.2	10.0	11.8	30.0
Hexachlorobutadiene	Ave	0.5982	0.7798		13.0	10.0	30.4*	30.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-17825-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-59928/3
 Matrix: Air Lab File ID: cltt04.d
 Analysis Method: TO15LL/NJ Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 08/16/2013 14:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 59928 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.20	U	0.20	0.0091
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.086
156-60-5	1,2-Dichloroethene, trans-	0.20	U	0.20	0.023
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.023
156-59-2	1,2-Dichloroethene, cis-	0.20	U	0.20	0.084
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.020
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.013
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.018
79-01-6	Trichloroethene	0.20	U	0.20	0.0092
127-18-4	Tetrachloroethene	0.20	U	0.20	0.015

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-17825-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-59928/4
 Matrix: Air Lab File ID: cltt05.d
 Analysis Method: TO15LL/NJ Date Collected: _____
 Sample wt/vol: 200(mL) Date Analyzed: 08/16/2013 15:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 59928 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.220		0.20	0.0091
75-35-4	1,1-Dichloroethene	0.195	J	0.20	0.086
156-60-5	1,2-Dichloroethene, trans-	0.198	J	0.20	0.023
75-34-3	1,1-Dichloroethane	0.199	J	0.20	0.023
156-59-2	1,2-Dichloroethene, cis-	0.192	J	0.20	0.084
71-55-6	1,1,1-Trichloroethane	0.207		0.20	0.020
56-23-5	Carbon tetrachloride	0.215		0.20	0.013
107-06-2	1,2-Dichloroethane	0.209		0.20	0.018
79-01-6	Trichloroethene	0.200		0.20	0.0092
127-18-4	Tetrachloroethene	0.202		0.20	0.015

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-17825-1

SDG No.: _____

Instrument ID: C.i Start Date: 07/21/2013 09:57

Analysis Batch Number: 58772 End Date: 07/22/2013 08:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-58772/1		07/21/2013 09:57	1	clt01.d	RTX-624 0.32 (mm)
IC 200-58772/2		07/21/2013 12:36	1	clt04.d	RTX-624 0.32 (mm)
IC 200-58772/3		07/21/2013 13:28	1	clt05.d	RTX-624 0.32 (mm)
IC 200-58772/4		07/21/2013 14:21	1	clt06.d	RTX-624 0.32 (mm)
ICIS 200-58772/5		07/21/2013 15:13	1	clt07.d	RTX-624 0.32 (mm)
IC 200-58772/6		07/21/2013 16:06	1	clt08.d	RTX-624 0.32 (mm)
IC 200-58772/7		07/21/2013 16:58	1	clt09.d	RTX-624 0.32 (mm)
IC 200-58772/8		07/21/2013 17:50	1	clt10.d	RTX-624 0.32 (mm)
VIBLK 200-58772/9		07/21/2013 23:12	1		RTX-624 0.32 (mm)
ICV 200-58772/10		07/22/2013 08:15	1	clt17.d	RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-17825-1

SDG No.: _____

Instrument ID: C.i Start Date: 08/16/2013 11:41

Analysis Batch Number: 59928 End Date: 08/17/2013 09:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-59928/1		08/16/2013 11:41	1	cltt01.d	RTX-624 0.32 (mm)
CCVIS 200-59928/2		08/16/2013 12:35	1	cltt02.d	RTX-624 0.32 (mm)
MB 200-59928/3		08/16/2013 14:23	1	cltt04.d	RTX-624 0.32 (mm)
LCS 200-59928/4		08/16/2013 15:16	1	cltt05.d	RTX-624 0.32 (mm)
LCS 200-59928/5		08/16/2013 16:09	1	cltt06.d	RTX-624 0.32 (mm)
LCS 200-59928/6		08/16/2013 17:01	1	cltt07.d	RTX-624 0.32 (mm)
ZZZZZ		08/16/2013 17:55	1		RTX-624 0.32 (mm)
ZZZZZ		08/16/2013 18:48	0.4		RTX-624 0.32 (mm)
ZZZZZ		08/16/2013 19:40	0.4		RTX-624 0.32 (mm)
ZZZZZ		08/16/2013 20:33	0.4		RTX-624 0.32 (mm)
ZZZZZ		08/16/2013 21:26	0.4		RTX-624 0.32 (mm)
ZZZZZ		08/16/2013 22:19	0.4		RTX-624 0.32 (mm)
ZZZZZ		08/16/2013 23:11	0.4		RTX-624 0.32 (mm)
ZZZZZ		08/17/2013 00:04	0.4		RTX-624 0.32 (mm)
ZZZZZ		08/17/2013 00:56	0.4		RTX-624 0.32 (mm)
ZZZZZ		08/17/2013 01:48	0.4		RTX-624 0.32 (mm)
ZZZZZ		08/17/2013 02:40	0.4		RTX-624 0.32 (mm)
ZZZZZ		08/17/2013 03:33	0.4		RTX-624 0.32 (mm)
ZZZZZ		08/17/2013 04:26	0.4		RTX-624 0.32 (mm)
200-17825-1	AA-080613-SGP-01	08/17/2013 05:19	10	cltt21.d	RTX-624 0.32 (mm)
200-17825-2	SG-080613-SGP-01	08/17/2013 06:11	9.96	cltt22.d	RTX-624 0.32 (mm)
ZZZZZ		08/17/2013 07:04	15		RTX-624 0.32 (mm)
CCVC 200-59928/23		08/17/2013 08:50	1	cltt25.d	RTX-624 0.32 (mm)
CCVC 200-59928/24		08/17/2013 09:43	1		RTX-624 0.32 (mm)

Client: URS Corporation

TestAmerica Job ID: 200-17825-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Dilution Factor	Final Dilution Factor	Date	Analyst
200-17825-2	1	-2.5	0.92	0.92	47.0	4.20	4.20	4.58	4.58	08/16/13 17:15	Lyons, Benjamin P

Formulae:

- Preadjusted Volume (L) = (Preadjusted Pressure ("Hg) + 29.92 "Hg * Vol L) / 29.92 "Hg
- Adjusted Volume (L) = (Adjusted Pressure (psig) + 14.7 psig * Vol L) / 14.7 psig
- Dilution Factor = Adjusted Volume (L) / Preadjusted Volume (L)

Where:

- 29.92 "Hg = Standard atmospheric pressure in inches of Mercury ("Hg)
- 14.7 psig = Standard atmospheric pressure in pounds per square inch gauge (psig)
- Vol = Volume of SUMMA canister at atmospheric pressure

ANALYTICAL REPORT

Job Number: 200-18242-1

SDG Number: 200-18242

Job Description: POM/VI SAMPLING

For:

URS Corporation

C/O Dupont

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark, DE 19713

Attention: Ms. Candia Carle



Approved for release.
Don C Dawicki
Customer Service Manager
9/13/2013 6:27 AM

Don C Dawicki, Customer Service Manager
30 Community Drive, South Burlington, VT, 05403
(802)660-1990
don.dawicki@testamericainc.com
09/13/2013

cc: Ms. Norma Eichlin

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

TestAmerica Laboratories, Inc.

TestAmerica Burlington 30 Community Drive, Suite 11, South Burlington, VT 05403

Tel (802) 660-1990 Fax (802) 660-1919 www.testamericainc.com



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**ANALYTICAL DATA PACKAGE FOR THE
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NEW JERSEY 08625**

Agency/Division:	NA	Bureau/Office:	NA
Project No:	NA	Contract No.:	NA
Laboratory Name:	TestAmerica Laboratories	Laboratory Location:	South Burlington, Vermont
SDG or Batch No.:	200-18242	NJDEP Certification No.:	VT972
Date of First Sample Receipt:	08/31/2013	Date of Last Sample Receipt:	08/31/2013

Agency Sample Number	Laboratory Sample Number	Sample Location	Date and Time of Collection
AA-082913-SGP-01	200-18242-2	AA-082913-SGP-01	08/29/2013 10:27
SG-082913-SGP-01	200-18242-1	SG-082913-SGP-01	08/29/2013 10:27

I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and in the computer-readable data submitted on disk or electronically has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Laboratory Manager (Typed):	Kirstin Daigle	Date:
Laboratory Manager (Signature):		
Quality Assurance Manager (Typed):	Sara Goff	Date:
Quality Assurance Manager (Signature):		

29.33

Air Methods - External Chain of Custody Record/Field Test Data Sheet New Jersey Department of Environmental Protection

DEP-095D

Laboratory Information

Name: ERIC GAGNE Individual Preparing Canister/Containers
 Title: Sample Custodian
 Laboratory Affixed Seal Number: 5317
 Time/Date Sample Shipping Container Sealed: _____

NJDEP Information

Project Number: A7649990 Bureau: _____ Contract Number: A72239 Division: _____
 Sampler's Name: George Nemeth/C-We Telephone Number: 973-492-7735

Sample Identification	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure In Field ("Hg) (Start)	Canister Pressure In Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Outgoing Canister Pressure ("Hg) (Lab)	Incoming Canister Pressure ("Hg) (Lab)	Flow Reg. ID	Can Size (L)	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	Analysis	Matrix
<u>SG-082913-SGP-01</u>	<u>8/29/13</u>	<u>10 22</u>	<u>10 27</u>	<u>29.33</u>	<u>3.00</u>	<u>73.5</u>	<u>73.5</u>	<u>-29.5</u>	<u>7085</u>	<u>7085</u>	<u>1L</u>	<u>3589</u>	<u>1L</u>	<u>CLTK</u>	<u>X</u>	<u>X</u>
<u>AA-082913-SGP-01</u>	<u>8/29/13</u>	<u>10 22</u>	<u>10 27</u>	<u>29.42</u>	<u>2.86</u>	<u>73.5</u>	<u>73.5</u>	<u>-29.5</u>	<u>7267</u>	<u>7267</u>	<u>1L</u>	<u>3647</u>	<u>1L</u>	<u>CLTK</u>	<u>X</u>	<u>X</u>

Barometric Pressure

Start: 30.00
 Stop: 30.00

Comments: _____

GC/MS Analyst Signature (NJDEP LL-TO-15/25C): _____ Laboratory/Canister Certification: _____
 GC Analyst Signature (3C): _____

External Chain of Custody

Relinquished: George Nemeth Received: George Nemeth
 Time/Date: 8/29/13 @ 1630 Time/Date: 8/30/13 1015
 Reason for Change of External Custody: Break Seal/Sample
TANK # 8750 8335 4754
Received by lab

Individual Resealing Shipping Container Name: _____ Title: Deputy
Time/Date Sample Shipping Container Resealed: _____
Time/Date Sample Shipping Container Opened: 8/30/13 1015 NJDEP Affixed Seal Number: _____
Time/Date Internal Chain of Custody Initiated on NJDEP Form 077 (Internal Chain of Custody): 9/13/13 1238 Individual Opening Sample Shipping Container: _____

Distribution: _____
 White - Original (Sent With Report)
 Pink - NJDEP Field Sampling Personnel



FedEx US Airbill
EXPRESS

FedEx Tracking Number
8750 8335 4759

1 From Date 8/29/13

Sender's Name George Nemeth Phone 973 492-7703

Company E. I. DuPont

Address 2000 Cannonball Rd.

City Pompton Lakes State NJ ZIP 07442

2 Your Internal Billing Reference

3 To Recipient's Name Sample Receiving Phone 802-660-1990

Company Test America

Address 30 Community Dr. STE 101

City South Burlington State VT ZIP 05403



8750 8335 4759

fedex.com 1800.GoFedEx 1800.463.3339

Form 10 lbs. **0200**

4a Express Package Service ** To most locations.
 FedEx Priority Overnight Next business morning. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx Standard Overnight Saturday Delivery NOT available.
 FedEx Express Saver Second business day. Thursday through Saturday Delivery NOT available.
 FedEx 2Day Second business day. Thursday through Saturday Delivery NOT available.
 FedEx 1Day Freight Next business day. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx 3Day Freight Second business day. Thursday through Saturday Delivery NOT available.
 FedEx 2Day Freight Second business day. Thursday through Saturday Delivery NOT available.
 FedEx Pak* FedEx Small Pak and Envelope* FedEx Tube Other

4b Express Freight Service ** To most locations.
 FedEx 1Day Freight Next business day. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx 2Day Freight Second business day. Thursday through Saturday Delivery NOT available.
 FedEx 3Day Freight Second business day. Thursday through Saturday Delivery NOT available.
 FedEx Pak* FedEx Small Pak and Envelope* FedEx Tube Other

5 Packaging
 FedEx Envelope*
 FedEx Pak* FedEx Small Pak and Envelope*
 FedEx Tube Other

6 Special Handling and Delivery Signature Options
 SATURDAY Delivery NOT available for FedEx Standard Overnight, FedEx Express Saver or FedEx 2Day Freight.
 No Signature Required Package may be left without obtaining a signature for delivery.
 Direct Signature Someone at recipient's address may sign for delivery. Fee applies.
 Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.
 Signature Required One box must be checked: Yes Restricted Signature Declaration and Insurance or Yes Restricted Signature Declaration and Insurance
 Device Driver's License, UN 1895
 Cargo Aircraft Only

7 Payment Bill to:
 Sender Account No. in Section 1, Two Box Bill
 Recipient
 Third Party
 Credit Card
 Cash/Check
Total Packages 1 Total Weight 2.25 lbs. Total Declared Value* Credit Card Auth. 606

New Date 2/10 - Part #15261 - ©1994-2010 FedEx - PRINTED IN U.S.A. SBY

Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 200-18242-1

SDG Number: 200-18242

Login Number: 18242

List Source: TestAmerica Burlington

List Number: 1

Creator: Poucher, Stephanie A

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	935764, 765
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	AMBIENT
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATT15LLCAL4w_00080	10/16/13	07/19/13		15.463 L	ATTO15CAL6w_00074	155 mL	1,1,1-Trichloroethane	0.20044 ppb v/v
							1,1-Dichloroethane	0.20044 ppb v/v
							1,1-Dichloroethene	0.20044 ppb v/v
							1,2-Dichloroethane	0.20044 ppb v/v
							1,2-Dichloroethene, cis-	0.20044 ppb v/v
							1,2-Dichloroethene, trans-	0.20044 ppb v/v
							Carbon tetrachloride	0.20044 ppb v/v
							Tetrachloroethene	0.20044 ppb v/v
							Trichloroethene	0.20044 ppb v/v
							Vinyl chloride	0.20044 ppb v/v
.ATTO15CAL6w_00074	10/16/13	07/18/13	DI WATER, Lot 2874	15.463 L	ATTO15CALSTKi_00044	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
..ATTO15CALSTKi_00044	10/16/13	07/16/13	DI WATER, Lot 1014	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Vinyl chloride	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL1w_00085	10/16/13	07/20/13	DI WATER, Lot 5459	15.463 L	ATTO15CAL6w_00073	155 mL	1,1,1-Trichloroethane	0.20044 ppb v/v
							1,1,2,2-Tetrachloroethane	0.20044 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.20044 ppb v/v
							1,1,2-Trichloroethane	0.20044 ppb v/v
							1,1-Dichloroethane	0.20044 ppb v/v
							1,1-Dichloroethene	0.20044 ppb v/v
							1,2,4-Trichlorobenzene	0.20044 ppb v/v
							1,2,4-Trimethylbenzene	0.20044 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20044 ppb v/v
							1,2-Dichlorobenzene	0.20044 ppb v/v
							1,2-Dichloroethane	0.20044 ppb v/v
							1,2-Dichloroethene, cis-	0.20044 ppb v/v
							1,2-Dichloroethene, trans-	0.20044 ppb v/v
							1,2-Dichloropropane	0.20044 ppb v/v
							1,3,5-Trimethylbenzene	0.20044 ppb v/v
							1,3-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dioxane	0.20044 ppb v/v
							2-Butanone (MEK)	0.20044 ppb v/v
2-Chlorotoluene	0.20044 ppb v/v							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	0.20044 ppb v/v
							3-Chloro-1-propene	0.20044 ppb v/v
							4-Ethyltoluene	0.20044 ppb v/v
							4-Methyl-2-pentanone (MIBK)	0.20044 ppb v/v
							Acetone	0.20044 ppb v/v
							Benzene	0.20044 ppb v/v
							Bromoform	0.20044 ppb v/v
							Bromomethane	0.20044 ppb v/v
							Butadiene	0.20044 ppb v/v
							Carbon disulfide	0.20044 ppb v/v
							Carbon tetrachloride	0.20044 ppb v/v
							Chlorobenzene	0.20044 ppb v/v
							Chlorodibromomethane	0.20044 ppb v/v
							Chloroethane	0.20044 ppb v/v
							Chloroform	0.20044 ppb v/v
							Chloromethane	0.20044 ppb v/v
							cis-1,3-Dichloropropene	0.20044 ppb v/v
							Cyclohexane	0.20044 ppb v/v
							Dichlorobromomethane	0.20044 ppb v/v
							Dichlorodifluoromethane	0.20044 ppb v/v
							Ethylbenzene	0.20044 ppb v/v
							Ethylene Dibromide	0.20044 ppb v/v
							Hexachlorobutadiene	0.20044 ppb v/v
							Hexane	0.20044 ppb v/v
							Isooctane	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	0.20044 ppb v/v
							m-Xylene & p-Xylene	0.400879 ppb v/v
							Methyl methacrylate	0.20044 ppb v/v
							Methyl tert-butyl ether	0.20044 ppb v/v
							Methylene Chloride	0.20044 ppb v/v
							n-Heptane	0.20044 ppb v/v
							o-Xylene	0.20044 ppb v/v
							Styrene	0.20044 ppb v/v
							Tetrachloroethene	0.20044 ppb v/v
							Tetrahydrofuran	0.20044 ppb v/v
							Toluene	0.20044 ppb v/v
							trans-1,3-Dichloropropene	0.20044 ppb v/v
							Trichloroethene	0.20044 ppb v/v
							Trichlorofluoromethane	0.20044 ppb v/v
							Vinyl bromide	0.20044 ppb v/v
							Vinyl chloride	0.20044 ppb v/v
.ATTO15CAL6w_00073	10/16/13	07/18/13	DI WATER, Lot 3535	15.463 L	ATTO15CALSTKi_00044	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
..ATTO15CALSTKi_00044	10/16/13	07/16/13	DI WATER, Lot 1014	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
...ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL2w_00098	10/16/13	07/20/13	DI WATER, Lot 5464	15.463 L	ATTO15CAL6w_00073	387 mL	1,1,1-Trichloroethane	0.500453 ppb v/v
							1,1,2,2-Tetrachloroethane	0.500453 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.500453 ppb v/v
							1,1,2-Trichloroethane	0.500453 ppb v/v
							1,1-Dichloroethane	0.500453 ppb v/v
							1,1-Dichloroethene	0.500453 ppb v/v
							1,2,4-Trichlorobenzene	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	0.500453 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.500453 ppb v/v
							1,2-Dichlorobenzene	0.500453 ppb v/v
							1,2-Dichloroethane	0.500453 ppb v/v
							1,2-Dichloroethene, cis-	0.500453 ppb v/v
							1,2-Dichloroethene, trans-	0.500453 ppb v/v
							1,2-Dichloropropane	0.500453 ppb v/v
							1,3,5-Trimethylbenzene	0.500453 ppb v/v
							1,3-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dioxane	0.500453 ppb v/v
							2-Butanone (MEK)	0.500453 ppb v/v
							2-Chlorotoluene	0.500453 ppb v/v
							2-Methyl-2-propanol	0.500453 ppb v/v
							3-Chloro-1-propene	0.500453 ppb v/v
							4-Ethyltoluene	0.500453 ppb v/v
							4-Methyl-2-pentanone (MIBK)	0.500453 ppb v/v
							Acetone	0.500453 ppb v/v
							Benzene	0.500453 ppb v/v
							Bromoform	0.500453 ppb v/v
							Bromomethane	0.500453 ppb v/v
							Butadiene	0.500453 ppb v/v
							Carbon disulfide	0.500453 ppb v/v
							Carbon tetrachloride	0.500453 ppb v/v
							Chlorobenzene	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorodibromomethane	0.500453 ppb v/v
							Chloroethane	0.500453 ppb v/v
							Chloroform	0.500453 ppb v/v
							Chloromethane	0.500453 ppb v/v
							cis-1,3-Dichloropropene	0.500453 ppb v/v
							Cyclohexane	0.500453 ppb v/v
							Dichlorobromomethane	0.500453 ppb v/v
							Dichlorodifluoromethane	0.500453 ppb v/v
							Ethylbenzene	0.500453 ppb v/v
							Ethylene Dibromide	0.500453 ppb v/v
							Hexachlorobutadiene	0.500453 ppb v/v
							Hexane	0.500453 ppb v/v
							Isooctane	0.500453 ppb v/v
							Isopropyl alcohol	0.500453 ppb v/v
							m-Xylene & p-Xylene	1.00091 ppb v/v
							Methyl methacrylate	0.500453 ppb v/v
							Methyl tert-butyl ether	0.500453 ppb v/v
							Methylene Chloride	0.500453 ppb v/v
							n-Heptane	0.500453 ppb v/v
							o-Xylene	0.500453 ppb v/v
							Styrene	0.500453 ppb v/v
							Tetrachloroethene	0.500453 ppb v/v
							Tetrahydrofuran	0.500453 ppb v/v
							Toluene	0.500453 ppb v/v
							trans-1,3-Dichloropropene	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	0.500453 ppb v/v
							Trichlorofluoromethane	0.500453 ppb v/v
							Vinyl bromide	0.500453 ppb v/v
							Vinyl chloride	0.500453 ppb v/v
.ATTO15CAL6w_00073	10/16/13	07/18/13	DI WATER, Lot 3535	15.463 L	ATTO15CALSTKi_00044	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
..ATTO15CALSTKi_00044	10/16/13	07/16/13	DI WATER, Lot 1014	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
...ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL3w_00111	10/16/13	07/18/13	DI WATER, Lot 2640	15.463 L	ATTO15CALSTKi_00044	386 mL	1,1,1-Trichloroethane	4.99256 ppb v/v
							1,1,2,2-Tetrachloroethane	4.99256 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	4.99256 ppb v/v
							1,1,2-Trichloroethane	4.99256 ppb v/v
							1,1-Dichloroethane	4.99256 ppb v/v
							1,1-Dichloroethene	4.99256 ppb v/v
							1,2,4-Trichlorobenzene	4.99256 ppb v/v
							1,2,4-Trimethylbenzene	4.99256 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	4.99256 ppb v/v
							1,2-Dichlorobenzene	4.99256 ppb v/v
							1,2-Dichloroethane	4.99256 ppb v/v
							1,2-Dichloroethene, cis-	4.99256 ppb v/v
							1,2-Dichloroethene, trans-	4.99256 ppb v/v
							1,2-Dichloropropane	4.99256 ppb v/v
							1,3,5-Trimethylbenzene	4.99256 ppb v/v
							1,3-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dioxane	4.99256 ppb v/v
							2-Butanone (MEK)	4.99256 ppb v/v
							2-Chlorotoluene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	4.99256 ppb v/v
							3-Chloro-1-propene	4.99256 ppb v/v
							4-Ethyltoluene	4.99256 ppb v/v
							4-Methyl-2-pentanone (MIBK)	4.99256 ppb v/v
							Acetone	4.99256 ppb v/v
							Benzene	4.99256 ppb v/v
							Bromoform	4.99256 ppb v/v
							Bromomethane	4.99256 ppb v/v
							Butadiene	4.99256 ppb v/v
							Carbon disulfide	4.99256 ppb v/v
							Carbon tetrachloride	4.99256 ppb v/v
							Chlorobenzene	4.99256 ppb v/v
							Chlorodibromomethane	4.99256 ppb v/v
							Chloroethane	4.99256 ppb v/v
							Chloroform	4.99256 ppb v/v
							Chloromethane	4.99256 ppb v/v
							cis-1,3-Dichloropropene	4.99256 ppb v/v
							Cyclohexane	4.99256 ppb v/v
							Dichlorobromomethane	4.99256 ppb v/v
							Dichlorodifluoromethane	4.99256 ppb v/v
							Ethylbenzene	4.99256 ppb v/v
							Ethylene Dibromide	4.99256 ppb v/v
							Hexachlorobutadiene	4.99256 ppb v/v
							Hexane	4.99256 ppb v/v
							Isooctane	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	4.99256 ppb v/v
							m-Xylene & p-Xylene	9.98513 ppb v/v
							Methyl methacrylate	4.99256 ppb v/v
							Methyl tert-butyl ether	4.99256 ppb v/v
							Methylene Chloride	4.99256 ppb v/v
							n-Heptane	4.99256 ppb v/v
							o-Xylene	4.99256 ppb v/v
							Styrene	4.99256 ppb v/v
							Tetrachloroethene	4.99256 ppb v/v
							Tetrahydrofuran	4.99256 ppb v/v
							Toluene	4.99256 ppb v/v
							trans-1,3-Dichloropropene	4.99256 ppb v/v
							Trichloroethene	4.99256 ppb v/v
							Trichlorofluoromethane	4.99256 ppb v/v
							Vinyl bromide	4.99256 ppb v/v
							Vinyl chloride	4.99256 ppb v/v
.ATTO15CALSTKi_00044	10/16/13	07/16/13	DI WATER, Lot 1014	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
Trichlorofluoromethane	200 ppb v/v							
Vinyl bromide	200 ppb v/v							
Vinyl chloride	200 ppb v/v							
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL4w_00290	10/16/13	08/05/13	DI WATER, Lot 4308	15.463 L	ATTO15CALSTKi_00044	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, cis-	9.99806 ppb v/v
							1,2-Dichloroethene, trans-	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Butanone (MEK)	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v
							2-Methyl-2-propanol	9.99806 ppb v/v
							3-Chloro-1-propene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							4-Methyl-2-pentanone (MIBK)	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Butadiene	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chlorodibromomethane	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dichlorobromomethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Ethylene Dibromide	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	9.99806 ppb v/v
							Isooctane	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m-Xylene & p-Xylene	19.9961 ppb v/v
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							o-Xylene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl bromide	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
.ATTO15CALSTKi_00044	10/16/13	07/16/13	DI WATER, Lot 1014	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	Vinyl chloride	200 ppb v/v
							1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL4w_00296	10/16/13	08/05/13	DI WATER, Lot 5452	15.463 L	ATTO15CALSTKi_00044	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, cis-	9.99806 ppb v/v
							1,2-Dichloroethene, trans-	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
.ATTO15CALSTKi_00044	10/16/13	07/16/13	DI WATER, Lot 1014	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL5w_00037	10/16/13	04/10/13	DI WATER, Lot 3155	15.463 L	ATTO15CALSTKi_00044	1160 mL	1,1,1-Trichloroethane	15.0036 ppb v/v
							1,1,2,2-Tetrachloroethane	15.0036 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	15.0036 ppb v/v
							1,1,2-Trichloroethane	15.0036 ppb v/v
							1,1-Dichloroethane	15.0036 ppb v/v
							1,1-Dichloroethene	15.0036 ppb v/v
							1,2,4-Trichlorobenzene	15.0036 ppb v/v
							1,2,4-Trimethylbenzene	15.0036 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	15.0036 ppb v/v
							1,2-Dichlorobenzene	15.0036 ppb v/v
							1,2-Dichloroethane	15.0036 ppb v/v
							1,2-Dichloroethene, cis-	15.0036 ppb v/v
							1,2-Dichloroethene, trans-	15.0036 ppb v/v
							1,2-Dichloropropane	15.0036 ppb v/v
							1,3,5-Trimethylbenzene	15.0036 ppb v/v
							1,3-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dioxane	15.0036 ppb v/v
							2-Butanone (MEK)	15.0036 ppb v/v
							2-Chlorotoluene	15.0036 ppb v/v
							2-Methyl-2-propanol	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	15.0036 ppb v/v
							4-Ethyltoluene	15.0036 ppb v/v
							4-Methyl-2-pentanone (MIBK)	15.0036 ppb v/v
							Acetone	15.0036 ppb v/v
							Benzene	15.0036 ppb v/v
							Bromoform	15.0036 ppb v/v
							Bromomethane	15.0036 ppb v/v
							Butadiene	15.0036 ppb v/v
							Carbon disulfide	15.0036 ppb v/v
							Carbon tetrachloride	15.0036 ppb v/v
							Chlorobenzene	15.0036 ppb v/v
							Chlorodibromomethane	15.0036 ppb v/v
							Chloroethane	15.0036 ppb v/v
							Chloroform	15.0036 ppb v/v
							Chloromethane	15.0036 ppb v/v
							cis-1,3-Dichloropropene	15.0036 ppb v/v
							Cyclohexane	15.0036 ppb v/v
							Dichlorobromomethane	15.0036 ppb v/v
							Dichlorodifluoromethane	15.0036 ppb v/v
							Ethylbenzene	15.0036 ppb v/v
							Ethylene Dibromide	15.0036 ppb v/v
							Hexachlorobutadiene	15.0036 ppb v/v
							Hexane	15.0036 ppb v/v
							Isooctane	15.0036 ppb v/v
							Isopropyl alcohol	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene v/v	30.0071 ppb
							Methyl methacrylate v/v	15.0036 ppb
							Methyl tert-butyl ether v/v	15.0036 ppb
							Methylene Chloride v/v	15.0036 ppb
							n-Heptane v/v	15.0036 ppb
							o-Xylene v/v	15.0036 ppb
							Styrene v/v	15.0036 ppb
							Tetrachloroethene v/v	15.0036 ppb
							Tetrahydrofuran v/v	15.0036 ppb
							Toluene v/v	15.0036 ppb
							trans-1,3-Dichloropropene v/v	15.0036 ppb
							Trichloroethene v/v	15.0036 ppb
							Trichlorofluoromethane v/v	15.0036 ppb
							Vinyl bromide v/v	15.0036 ppb
							Vinyl chloride v/v	15.0036 ppb
.ATTO15CALSTKi_00044	10/16/13	07/16/13	DI WATER, Lot 1014	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetraflu roethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL6w_00074	10/16/13	07/18/13	DI WATER, Lot 2874	15.463 L	ATTO15CALSTKi_00044	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
.ATTO15CALSTKi_00044	10/16/13	07/16/13	DI WATER, Lot 1014	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
Trichlorofluoromethane	200 ppb v/v							
Vinyl bromide	200 ppb v/v							
Vinyl chloride	200 ppb v/v							
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL7w_00039	10/16/13	07/18/13	DI WATER, Lot 3413	15.463 L	ATTO15CALSTKi_00044	3092 mL	1,1,1-Trichloroethane	39.9922 ppb v/v
							1,1,2,2-Tetrachloroethane	39.9922 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	39.9922 ppb v/v
							1,1,2-Trichloroethane	39.9922 ppb v/v
							1,1-Dichloroethane	39.9922 ppb v/v
							1,1-Dichloroethene	39.9922 ppb v/v
							1,2,4-Trichlorobenzene	39.9922 ppb v/v
							1,2,4-Trimethylbenzene	39.9922 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	39.9922 ppb v/v
							1,2-Dichlorobenzene	39.9922 ppb v/v
							1,2-Dichloroethane	39.9922 ppb v/v
							1,2-Dichloroethene, cis-	39.9922 ppb v/v
							1,2-Dichloroethene, trans-	39.9922 ppb v/v
							1,2-Dichloropropane	39.9922 ppb v/v
							1,3,5-Trimethylbenzene	39.9922 ppb v/v
							1,3-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dioxane	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Butanone (MEK)	39.9922 ppb v/v
							2-Chlorotoluene	39.9922 ppb v/v
							2-Methyl-2-propanol	39.9922 ppb v/v
							3-Chloro-1-propene	39.9922 ppb v/v
							4-Ethyltoluene	39.9922 ppb v/v
							4-Methyl-2-pentanone (MIBK)	39.9922 ppb v/v
							Acetone	39.9922 ppb v/v
							Benzene	39.9922 ppb v/v
							Bromoform	39.9922 ppb v/v
							Bromomethane	39.9922 ppb v/v
							Butadiene	39.9922 ppb v/v
							Carbon disulfide	39.9922 ppb v/v
							Carbon tetrachloride	39.9922 ppb v/v
							Chlorobenzene	39.9922 ppb v/v
							Chlorodibromomethane	39.9922 ppb v/v
							Chloroethane	39.9922 ppb v/v
							Chloroform	39.9922 ppb v/v
							Chloromethane	39.9922 ppb v/v
							cis-1,3-Dichloropropene	39.9922 ppb v/v
							Cyclohexane	39.9922 ppb v/v
							Dichlorobromomethane	39.9922 ppb v/v
							Dichlorodifluoromethane	39.9922 ppb v/v
							Ethylbenzene	39.9922 ppb v/v
							Ethylene Dibromide	39.9922 ppb v/v
							Hexachlorobutadiene	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	39.9922 ppb v/v
							Isooctane	39.9922 ppb v/v
							Isopropyl alcohol	39.9922 ppb v/v
							m-Xylene & p-Xylene	79.9845 ppb v/v
							Methyl methacrylate	39.9922 ppb v/v
							Methyl tert-butyl ether	39.9922 ppb v/v
							Methylene Chloride	39.9922 ppb v/v
							n-Heptane	39.9922 ppb v/v
							o-Xylene	39.9922 ppb v/v
							Styrene	39.9922 ppb v/v
							Tetrachloroethene	39.9922 ppb v/v
							Tetrahydrofuran	39.9922 ppb v/v
							Toluene	39.9922 ppb v/v
							trans-1,3-Dichloropropene	39.9922 ppb v/v
							Trichloroethene	39.9922 ppb v/v
							Trichlorofluoromethane	39.9922 ppb v/v
							Vinyl bromide	39.9922 ppb v/v
							Vinyl chloride	39.9922 ppb v/v
.ATTO15CALSTKi_00044	10/16/13	07/16/13	DI WATER, Lot 1014	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	Vinyl chloride	200 ppb v/v
							1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15LCSW_00313	10/17/13	08/05/13	DI WATER, Lot 3646	15.463 L	ATTO15LCSSTKi_00040	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, cis-	9.99806 ppb v/v
							1,2-Dichloroethene, trans-	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
.ATTO15LCSSTKi_00040	10/17/13	07/17/13	DI WATER, Lot 4985	37.5 L	ATTO15LCSSs_00011	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15LCSSs_00011	12/05/13		Spectra Gases, Lot CC-230119		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-18242-1

SDG No.: 200-18242

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Vinyl chloride	1 ppm v/v

METHODOLOGY SUMMARY

Laboratory: TestAmerica Laboratories

Project No: NA

Location: South Burlington, Vermont

SDG No: 200-18242

VOA

Volatile Organics - NJDEP-LLTO-15

CASE NARRATIVE

Client: URS Corporation

Project: POM/VI SAMPLING

Report Number: 200-18242-1

The samples in this sample set were analyzed by the EPA Compendium Method TO-15 for specific volatile organic constituents. Unless otherwise noted below, the analytical work followed the requirements outlined in the New Jersey DEP guidelines.

The practice of the laboratory is to analyze one canister from each batch of canisters that have been cleaned for re-use in order to certify the batch. The canisters that were used for this sampling event were from multiple batches. The certifying analyses were free of target analytes down to the concentration levels that are contractually required (nominally 0.2 PPBV). In order to provide for the lower level of detection required for canister certification, the laboratory analyzed a 500 milliliter volume. The laboratory's established practice for the analysis of field samples is based on the analysis of a 200 milliliter sample volume. Documentation of the analytical work supporting canister certification is included in the "Clean Can Certification" section of this submittal. Documentation of canister vacuum as delivered to, and received from, the field is included in the "Clean Can Certification" section of this submittal.

Manual integration was employed in deriving certain of the analytical results. The values that have been derived from manual integration are qualified on the quantitation reports, and extracted ion current profiles are included in the data package.

The following details the column type and trap design that were used in the performance of the analytical work for the sample in this sample set:

Chromatography Column - Restek RTX-624
Length - 60 meters
Inner Diameter - 0.32 millimeters
Film thickness - 1.8 micrometers
Trap Design - Entech Model 7100A (glass bead and Tenax with cryo-focusing)

A summary of the laboratory's current Method Detection Limits (MDLs) has been provided as part of this submittal, immediately following this transmittal letter.

RECEIPT

The samples were received on 08/31/2013; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS

Samples SG-082913-SGP-01 and AA-082913-SGP-01 were analyzed for Volatile Organic Compounds in accordance with NJDEP-LLTO-15. The samples were analyzed on 09/04/2013.

No difficulties were encountered during the VOCs analysis.

All quality control parameters were within the acceptance limits.

Project Name: NA
 Field ID Number: SG-082913-SGP-01
 Laboratory ID Number: 200-18242-1

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Sampling Date: 08/29/2013 10:27
 Analysis Date: 09/04/2013 18:45

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	2.0	U	5			
1,1-Dichloroethene	75-35-4	96.94	2.0	U	8			
1,2-Dichloroethene, trans-	156-60-5	96.94	3.0		12			
1,1-Dichloroethane	75-34-3	98.96	2.0	U	8			
1,2-Dichloroethene, cis-	156-59-2	96.94	7.8		31			
1,1,1-Trichloroethane	71-55-6	133.41	4.8		26			
Carbon tetrachloride	56-23-5	153.81	2.0	U	13			
1,2-Dichloroethane	107-06-2	98.96	2.0	U	8			
Trichloroethene	79-01-6	131.39	43		230			
Tetrachloroethene	127-18-4	165.83	260		1800			

Project Name: NA
 Field ID Number: AA-082913-SGP-01
 Laboratory ID Number: 200-18242-2

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Sampling Date: 08/29/2013 10:27
 Analysis Date: 09/04/2013 19:32

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	0.20	U	0.5			
1,1-Dichloroethene	75-35-4	96.94	0.20	U	0.8			
1,2-Dichloroethene, trans-	156-60-5	96.94	0.20	U	0.8			
1,1-Dichloroethane	75-34-3	98.96	0.20	U	0.8			
1,2-Dichloroethene, cis-	156-59-2	96.94	0.20	U	0.8			
1,1,1-Trichloroethane	71-55-6	133.41	0.20	U	1			
Carbon tetrachloride	56-23-5	153.81	0.20	U	1			
1,2-Dichloroethane	107-06-2	98.96	0.20	U	0.8			
Trichloroethene	79-01-6	131.39	0.20	U	1			
Tetrachloroethene	127-18-4	165.83	0.20	U	1			

Project Name: NA
 Field ID Number:
 Laboratory ID Number: MB 200-60708/3

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Analysis Date: 09/04/2013 12:52

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	0.20	U	0.5			
1,1-Dichloroethene	75-35-4	96.94	0.20	U	0.8			
1,2-Dichloroethene, trans-	156-60-5	96.94	0.20	U	0.8			
1,1-Dichloroethane	75-34-3	98.96	0.20	U	0.8			
1,2-Dichloroethene, cis-	156-59-2	96.94	0.20	U	0.8			
1,1,1-Trichloroethane	71-55-6	133.41	0.20	U	1			
Carbon tetrachloride	56-23-5	153.81	0.20	U	1			
1,2-Dichloroethane	107-06-2	98.96	0.20	U	0.8			
Trichloroethene	79-01-6	131.39	0.20	U	1			
Tetrachloroethene	127-18-4	165.83	0.20	U	1			

DATA REPORTING QUALIFIERS

Client: URS Corporation

Job Number: 200-18242-1

Sdg Number: 200-18242

Lab Section	Qualifier	Description
Air - GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD:	EPA TO15	MATRIX:	AIR	QA Review:	Kirstin Daigle			
PREP METHOD:	NA	Instrument(s):	B, C, G	Date Approved:	4/13/2012			
CLEANUP METHOD(s):	NA			TALS Entry:	4/13/2012			
ANALYTE	CAS #	DL ppbv	DL Source ²	LOD ppbv	LOD REF	LOQ ppbv	LOD/DL Ratio	LOQ/LOD Ratio
1,1,1-Trichloroethane	71-55-6	0.020	40CFR	0.080	LOD3	0.20	4.0	2.5
1,1,2,2-Tetrachloroethane	79-34-5	0.011	40CFR	0.040	LOD2	0.20	3.7	5.0
1,1,2-Trichloroethane	79-00-5	0.016	40CFR	0.040	LOD2	0.20	2.6	5.0
1,1-Dichloroethane	75-34-3	0.023	40CFR	0.080	LOD3	0.20	3.5	2.5
1,1-Dichloroethene	75-35-4	0.086	40CFR	0.20	LOD4	0.20	2.3	1.0
1,2,3-Trichlorobenzene	87-61-6	0.041	40CFR	0.080	LOD3	0.20	1.9	2.5
1,2,3-Trichloropropane	96-18-4	0.025	40CFR	0.080	LOD3	0.20	3.2	2.5
1,2,4-Trichlorobenzene	120-82-1	0.030	40CFR	0.080	LOD3	0.50	2.7	6.3
1,2,4-Trimethylbenzene	95-63-6	0.021	40CFR	0.080	LOD3	0.20	3.9	2.5
1,2-Dibromoethane	106-93-4	0.014	40CFR	0.040	LOD2	0.20	2.8	5.0
1,2-Dichlorobenzene	95-50-1	0.026	40CFR	0.080	LOD3	0.20	3.1	2.5
1,2-Dichloroethane	107-06-2	0.018	40CFR	0.040	LOD2	0.20	2.2	5.0
1,2-Dichloroethene, Total ¹	540-59-0	0.023	40CFR	0.080	LOD3	0.20	3.5	2.5
1,2-Dichloropropane	78-87-5	0.023	40CFR	0.080	LOD3	0.20	3.4	2.5
1,2-Dichlorotetrafluoroethane	76-14-2	0.020	40CFR	0.080	LOD3	0.20	4.0	2.5
1,3,5-Trimethylbenzene	108-67-8	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
1,3-Butadiene	106-99-0	0.025	40CFR	0.080	LOD3	0.20	3.3	2.5
1,3-Dichlorobenzene	541-73-1	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
1,4-Dichlorobenzene	106-46-7	0.018	40CFR	0.040	LOD2	0.20	2.2	5.0
1,4-Dioxane	123-91-1	0.070	40CFR	0.20	LOD4	5.0	2.8	25.0
2,2,4-Trimethylpentane	540-84-1	0.015	40CFR	0.040	LOD2	0.20	2.8	5.0
2-Chlorotoluene	95-49-8	0.013	40CFR	0.040	LOD2	0.20	3.1	5.0
3-Chloropropene	107-05-1	0.047	40CFR	0.080	LOD3	0.50	1.7	6.3
4-Ethyltoluene	622-96-8	0.015	40CFR	0.040	LOD2	0.20	2.6	5.0
4-Isopropyltoluene	99-87-6	0.020	40CFR	0.080	LOD3	0.20	3.9	2.5
Acetone	67-64-1	0.40	LTB	0.50	LOD5	5.0	1.3	10.0
Acetonitrile	75-05-8	0.082	40CFR	0.20	LOD4	5.0	2.4	25.0
Acrolein	107-02-8	0.067	40CFR	0.20	LOD4	5.0	3.0	25.0
Acrylonitrile	107-13-1	0.023	40CFR	0.080	LOD3	0.50	3.5	6.3
Alpha Methyl Styrene	98-83-9	0.018	40CFR	0.040	LOD2	0.20	2.2	5.0
Benzene	71-43-2	0.018	40CFR	0.040	LOD2	0.20	2.2	5.0
Benzyl chloride	100-44-7	0.022	40CFR	0.080	LOD3	0.20	3.7	2.5
Bromodichloromethane	75-27-4	0.012	40CFR	0.040	LOD2	0.20	3.4	5.0
Bromoethene(Vinyl Bromide)	593-60-2	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
Bromoform	75-25-2	0.0072	40CFR	0.028	LOD1	0.20	3.9	7.1
Bromomethane	74-83-9	0.027	40CFR	0.080	LOD3	0.20	3.0	2.5
Carbon disulfide	75-15-0	0.020	40CFR	0.080	LOD3	0.50	3.9	6.3

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD:	EPA TO15	MATRIX:	AIR	QA Review:	Kirstin Daigle			
PREP METHOD:	NA	Instrument(s):	B, C, G	Date Approved:	4/13/2012			
CLEANUP METHOD(s):	NA	DL	DL	TALS Entry:	4/13/2012			
ANALYTE	CAS #	DL ppbv	DL Source ²	LOD ppbv	LOD REF	LOQ ppbv	LOD/DL Ratio	LOQ/LOD Ratio
Carbon tetrachloride	56-23-5	0.013	40CFR	0.040	LOD2	0.040	3.0	1.0
Chlorobenzene	108-90-7	0.013	40CFR	0.040	LOD2	0.20	3.0	5.0
Chloroethane	75-00-3	0.033	40CFR	0.080	LOD3	0.50	2.4	6.3
Chloroform	67-66-3	0.024	40CFR	0.080	LOD3	0.20	3.4	2.5
Chloromethane	74-87-3	0.034	LTB	0.080	LOD3	0.50	2.4	6.3
cis-1,2-Dichloroethene	156-59-2	0.084	40CFR	0.20	LOD4	0.20	2.4	1.0
cis-1,3-Dichloropropene	10061-01-5	0.013	40CFR	0.040	LOD2	0.20	3.2	5.0
Cumene	98-82-8	0.011	40CFR	0.040	LOD2	0.20	3.5	5.0
Cyclohexane	110-82-7	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
Dibromochloromethane	124-48-1	0.011	40CFR	0.040	LOD2	0.20	3.6	5.0
Dibromomethane	74-95-3	0.016	40CFR	0.040	LOD2	0.20	2.5	5.0
Dichlorodifluoromethane	75-71-8	0.020	40CFR	0.080	LOD3	0.50	3.9	6.3
Ethanol	64-17-5	0.18	40CFR	0.40	LOD4	5.0	2.2	12.5
Ethyl acetate	141-78-6	0.065	40CFR	0.20	LOD4	5.0	3.1	25.0
Ethyl ether	60-29-7	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
Ethylbenzene	100-41-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Freon 22	75-45-6	0.023	40CFR	0.080	LOD3	0.50	3.5	6.3
Freon TF	76-13-1	0.020	40CFR	0.080	LOD3	0.20	3.9	2.5
Hexachlorobutadiene	87-68-3	0.029	40CFR	0.080	LOD3	0.20	2.8	2.5
Isopentane	78-78-4	0.064	40CFR	0.20	LOD4	0.20	3.1	1.0
Isopropyl alcohol	67-63-0	0.076	40CFR	0.20	LOD4	5.0	2.6	25.0
m,p-Xylene	179601-23-1	0.022	40CFR	0.040	LOD2	0.20	1.8	5.0
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.040	40CFR	0.080	LOD3	0.50	2.0	6.3
Methyl Ethyl Ketone	78-93-3	0.025	40CFR	0.080	LOD3	0.50	3.2	6.3
Methyl isobutyl ketone	108-10-1	0.034	40CFR	0.080	LOD3	0.50	2.4	6.3
Methyl methacrylate	80-62-6	0.016	40CFR	0.040	LOD2	0.50	2.5	12.5
Methyl tert-butyl ether	1634-04-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Methylene Chloride	75-09-2	0.023	40CFR	0.080	LOD3	0.50	3.5	6.3
Naphthalene	91-20-3	0.038	40CFR	0.080	LOD3	0.50	2.1	6.3
n-Butane	106-97-8	0.022	40CFR	0.080	LOD3	0.50	3.7	6.3
n-Butanol	71-36-3	0.14	40CFR	0.20	LOD4	5.0	1.4	25.0
n-Butylbenzene	104-51-8	0.022	40CFR	0.080	LOD3	0.20	3.7	2.5
n-Decane	124-18-5	0.018	40CFR	0.040	LOD2	0.50	2.3	12.5
n-Dodecane	112-40-3	0.19	40CFR	0.20	LOD4	5.0	1.0	25.0
n-Heptane	142-82-5	0.017	40CFR	0.040	LOD2	0.20	2.4	5.0
n-Hexane	110-54-3	0.020	40CFR	0.080	LOD3	0.20	3.9	2.5
n-Nonane	111-84-2	0.010	40CFR	0.040	LOD2	0.20	4.1	5.0

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD:	EPA TO15	MATRIX:	AIR	QA Review:	Kirstin Daigle			
PREP METHOD:	NA	Instrument(s):	B, C, G	Date Approved:	4/13/2012			
CLEANUP METHOD(s):	NA			TALS Entry:	4/13/2012			
ANALYTE	CAS #	DL ppbv	DL Source ²	LOD ppbv	LOD REF	LOQ ppbv	LOD/DL Ratio	LOQ/LOD Ratio
n-Octane	111-65-9	0.013	40CFR	0.040	LOD2	0.50	3.1	12.5
n-Pentane	109-66-0	0.023	40CFR	0.080	LOD3	0.50	3.4	6.3
n-Propylbenzene	103-65-1	0.013	40CFR	0.040	LOD2	0.20	3.0	5.0
n-Undecane	1120-21-4	0.034	40CFR	0.080	LOD3	5.0	2.3	62.4
Propylene	115-07-1	0.094	40CFR	0.20	LOD4	5.0	2.1	25.0
sec-Butylbenzene	135-98-8	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Styrene	100-42-5	0.011	40CFR	0.040	LOD2	0.20	3.6	5.0
tert-Butyl alcohol	75-65-0	0.041	40CFR	0.080	LOD3	5.0	2.0	62.4
tert-Butylbenzene	98-06-6	0.011	40CFR	0.040	LOD2	0.20	3.6	5.0
Tetrachloroethene	127-18-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Tetrahydrofuran	109-99-9	0.029	40CFR	0.080	LOD3	5.0	2.7	62.4
Toluene	108-88-3	0.014	40CFR	0.040	LOD2	0.20	2.8	5.0
trans-1,2-Dichloroethene	156-60-5	0.023	40CFR	0.080	LOD3	0.20	3.5	2.5
trans-1,3-Dichloropropene	10061-02-6	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Trichloroethene	79-01-6	0.0092	40CFR	0.028	LOD1	0.040	3.1	1.4
Trichlorofluoromethane	75-69-4	0.021	40CFR	0.080	LOD3	0.20	3.9	2.5
Vinyl acetate	108-05-4	0.025	40CFR	0.080	LOD3	5.0	3.2	62.4
Vinyl chloride	75-01-4	0.0091	40CFR	0.028	LOD1	0.040	3.1	1.4
Xylene, o-	95-47-6	0.016	40CFR	0.040	LOD2	0.20	2.4	5.0
Xylene, Total ¹	1330-20-7	0.016	40CFR	0.040	LOD2	0.20	2.4	5.0

¹: Summary Analyte. The DL, LOD and LOQ are set to the value equal to the lowest DL, LOD and LOQ of the component analytes.

²: 40CFR = DL is taken from 40CFR MDL Study. LTB = DL calculated from Long Term Evaluation of Method Blanks

Detection Limit (DL) Study Report

TEST METHOD:		EPA TO15		Prep Date:		01/16/12								
PREP METHOD:		NA		Initial Amount:		200 mL								
CLEANUP METHOD(S):		NA		Final Amount:		200 mL								
MATRIX:		AIR												
ANALYTE	CAS #	Date Analyzed:	Instrument ID:	Spike ppbv	01/16/12	01/16/12	01/16/12							
					C	C	C							
					RTX-624	RTX-624	RTX-624							
					REP 1	REP 2	REP 3							
					ppbv	ppbv	ppbv							
					REP 4	REP 5	REP 6							
					ppbv	ppbv	ppbv							
					REP 7									
					ppbv									
					Mean ppbv	Average %R	STD DEV							
					DL ppbv	Spike/DL Ratio								
n-Butylbenzene	104-51-8	0.050	0.048137	0.028586	0.029114	0.03042	0.035355	0.029657	0.031059	0.033	67%	0.00696	0.022	2.3
n-Decane	124-18-5	0.050	0.036546	0.022044	0.020162	0.023891	0.026808	0.0212	0.026588	0.025	51%	0.00557	0.018	2.9
n-Dodecane	112-40-3	0.50	0.627098	0.480578	0.473868	0.474722	0.571975	0.47566	0.497409	0.514	103%	0.06078	0.191	2.6
n-Heptane	142-82-5	0.10	0.09942	0.10363	0.111768	0.109175	0.097895	0.109455	0.10716	0.106	106%	0.00531	0.017	6.0
n-Hexane	110-54-3	0.050	0.073875	0.05334	0.057888	0.064359	0.063601	0.06049	0.065062	0.063	126%	0.00645	0.020	2.5
n-Nonane	111-84-2	0.050	0.050916	0.041586	0.043278	0.04702	0.043524	0.045371	0.044423	0.045	90%	0.00307	0.010	5.2
n-Octane	111-65-9	0.10	0.102898	0.102016	0.109872	0.10588	0.0989	0.109196	0.108147	0.105	105%	0.00412	0.013	7.7
n-Pentane	109-66-0	0.10	0.113422	0.112879	0.122504	0.124181	0.10199	0.115375	0.119221	0.116	116%	0.00744	0.023	4.3
n-Propylbenzene	103-65-1	0.050	0.045237	0.034802	0.031889	0.037885	0.039789	0.03589	0.036715	0.037	75%	0.00423	0.013	3.8
n-Undecane	1120-21-4	0.50	0.264815	0.245186	0.235354	0.243748	0.260431	0.239573	0.244349	0.248	50%	0.01085	0.034	14.6
Propylene	115-07-1	0.50	0.60298	0.617479	0.605271	0.627917	0.623967	0.691435	0.636873	0.629	126%	0.02988	0.094	5.3
sec-Butylbenzene	135-98-8	0.10	0.073975	0.076789	0.078233	0.081733	0.076792	0.073771	0.066755	0.075	76%	0.00468	0.015	6.8
Styrene	100-42-5	0.050	0.044637	0.038055	0.034198	0.04162	0.03885	0.036069	0.040379	0.039	78%	0.00349	0.011	4.6
tert-Butyl alcohol	75-65-0	0.50	0.508232	0.496266	0.480641	0.489734	0.509943	0.513052	0.514001	0.502	101%	0.01296	0.041	12.3
tert-Butylbenzene	98-06-6	0.050	0.0437	0.035827	0.032872	0.039268	0.040358	0.036458	0.038936	0.038	77%	0.00350	0.011	4.5
Tetrachloroethene	127-18-4	0.10	0.102889	0.103282	0.109897	0.111806	0.098738	0.10689	0.101255	0.105	105%	0.00473	0.015	6.7
Tetrahydrofuran	109-99-9	0.50	0.526214	0.508039	0.517002	0.536047	0.522949	0.511868	0.51802	0.520	104%	0.00937	0.029	16.9
Toluene	108-88-3	0.10	0.101053	0.100661	0.106148	0.108643	0.097266	0.109432	0.104239	0.104	104%	0.00449	0.014	7.1
trans-1,2-Dichloroethene	156-60-5	0.10	0.107583	0.103375	0.113143	0.112858	0.092156	0.108578	0.109256	0.107	107%	0.00722	0.023	4.4
trans-1,3-Dichloropropene	10061-02-6	0.10	0.095167	0.098962	0.106149	0.106491	0.095199	0.102061	0.09792	0.100	100%	0.00475	0.015	6.7
Trichlorofluoromethane	75-69-4	0.050	0.077581	0.059176	0.059963	0.071561	0.065175	0.064871	0.069117	0.067	134%	0.00653	0.021	2.4
Vinyl acetate	108-05-4	0.50	0.494487	0.509174	0.494689	0.500711	0.516169	0.498506	0.498208	0.502	101%	0.00806	0.025	19.7
Xylene, o-	95-47-6	0.10	0.087382	0.088147	0.097469	0.093614	0.086955	0.091865	0.081519	0.090	90%	0.00520	0.016	6.1

Limit of Detection (LOD) Verification Report

TEST METHOD:		EPA TO15	Prep Date:	1/31/2012, 02/06/12	Instrument(s):						
PREP METHOD:		NA	Initial Amount:	200 mL	B			C			
CLEANUP METHOD(s):		NA	Final Amount:	200 mL	RTX-624			RTX-624			
MATRIX:		AIR	LOD Ref:	1							
ANALYTE	CAS #	DL ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
Bromoform	75-25-2	0.0072	0.028	3.9	Y	0.0236358	01/31/12	0.0269937	02/06/12	0.0310274	01/31/12
Trichloroethene	79-01-6	0.0092	0.028	3.1	Y	0.0369347	01/31/12	0.0357282	02/06/12	0.0370572	01/31/12
Vinyl chloride	75-01-4	0.0091	0.028	3.1	Y	0.0382497	01/31/12	0.0271757	02/06/12	0.0427657	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	EPA TO15		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
	PREP METHOD:	NA	Initial Amount:	200 mL	B			C			G	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624			RTX-624			RTX-624		
MATRIX:	AIR	LOD Ref:	2									
ANALYTE	CAS #	DL ppbv	Spike ppbv	Pass Y/N	Spike/DL Ratio	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	
1,1,2,2-Tetrachloroethane	79-34-5	0.011	0.040	Y	3.6	0.0439484	01/30/12	0.0367094	01/30/12	0.0368553	01/31/12	
1,1,2-Trichloroethane	79-00-5	0.016	0.040	Y	2.5	0.04085	01/30/12	0.0383681	01/30/12	0.0375874	01/31/12	
1,2-Dibromoethane	106-93-4	0.014	0.040	Y	2.9	0.0382115	01/30/12	0.0373325	01/30/12	0.0413789	01/31/12	
1,2-Dichloroethane	107-06-2	0.018	0.040	Y	2.2	0.043269	01/30/12	0.044657	01/30/12	0.0427347	01/31/12	
1,3,5-Trimethylbenzene	108-67-8	0.019	0.040	Y	2.1	0.0448217	01/30/12	0.0356625	01/30/12	0.0229489	01/31/12	
1,3-Dichlorobenzene	541-73-1	0.019	0.040	Y	2.1	0.0440867	01/30/12	0.0375736	01/30/12	0.0483551	01/31/12	
1,4-Dichlorobenzene	106-46-7	0.018	0.040	Y	2.2	0.0467479	01/30/12	0.0378337	01/30/12	0.0332018	01/31/12	
2,2,4-Trimethylpentane	540-84-1	0.015	0.040	Y	2.7	0.0458012	01/30/12	0.0432881	01/30/12	0.0413784	01/31/12	
2-Chlorotoluene	95-49-8	0.013	0.040	Y	3.1	0.0477588	01/30/12	0.0398619	01/30/12	0.0273756	01/31/12	
4-Ethyltoluene	622-96-8	0.015	0.040	Y	2.7	0.0413871	01/30/12	0.03224089	01/30/12	0.0183816	01/31/12	
Alpha Methyl Styrene	98-83-9	0.018	0.040	Y	2.2	0.0283359	01/30/12	0.0241925	01/30/12	0.0361873	01/31/12	
Benzene	71-43-2	0.018	0.040	Y	2.2	0.0566347	01/30/12	0.0538394	01/30/12	0.0488064	01/31/12	
Bromodichloromethane	75-27-4	0.012	0.040	Y	3.3	0.0416361	01/30/12	0.0401186	01/30/12	0.0400368	01/31/12	
Bromoethene(Vinyl Bromide)	593-60-2	0.019	0.040	Y	2.1	0.0477646	01/30/12	0.0390748	01/30/12	0.0509984	01/31/12	
Carbon tetrachloride	56-23-5	0.019	0.040	Y	2.1	0.0450564	01/30/12	0.0453807	01/30/12	0.0445167	01/31/12	
Chlorobenzene	108-90-7	0.013	0.040	Y	3.1	0.0509605	01/30/12	0.0454508	01/30/12	0.0435362	01/31/12	
cis-1,3-Dichloropropene	10061-01-5	0.013	0.040	Y	3.1	0.0409175	01/30/12	0.0482381	01/30/12	0.048195	01/31/12	
Cumene	98-82-8	0.011	0.040	Y	3.6	0.0423284	01/30/12	0.0378653	01/30/12	0.0334343	01/31/12	
Cyclohexane	110-82-7	0.013	0.040	Y	3.1	0.0501248	01/30/12	0.0390593	01/30/12	0.0475519	01/31/12	
Dibromochloromethane	124-48-1	0.011	0.040	Y	3.6	0.0355362	01/30/12	0.0354374	01/30/12	0.0358777	01/31/12	
Dibromomethane	74-95-3	0.016	0.040	Y	2.5	0.0458574	01/30/12	0.0384973	01/30/12	0.0533226	01/31/12	
Ethyl ether	60-29-7	0.019	0.040	Y	2.1	0.0360172	01/30/12	0.0208922	01/30/12	0.0468287	01/31/12	
Ethylbenzene	100-41-4	0.015	0.040	Y	2.7	0.0470157	01/30/12	0.0410152	01/30/12	0.031831	01/31/12	
m,p-Xylene	179601-23-1	0.022	0.080	Y	3.7	0.0866301	01/30/12	0.0737886	01/30/12	0.0660686	01/31/12	
Methyl methacrylate	80-62-6	0.016	0.040	Y	2.5	0.0206074	01/30/12	0.0208438	01/30/12	0.0234625	01/31/12	
Methyl tert-butyl ether	1634-04-4	0.015	0.040	Y	2.7	0.0444376	01/30/12	0.0448008	01/30/12	0.0421109	01/31/12	
n-Decane	124-18-5	0.010	0.040	Y	4.0	0.0452386	01/30/12	0.0212837	01/30/12	0.0306513	01/31/12	
n-Heptane	142-82-5	0.017	0.040	Y	2.4	0.0479421	01/30/12	0.0424606	01/30/12	0.0476082	01/31/12	
n-Nonane	111-84-2	0.010	0.040	Y	4.0	0.0450012	01/30/12	0.035101	01/30/12	0.0350987	01/31/12	
n-Octane	111-65-9	0.013	0.040	Y	3.1	0.0462756	01/30/12	0.0443126	01/30/12	0.0605262	01/31/12	
n-Propylbenzene	103-65-1	0.013	0.040	Y	3.1	0.0471636	01/30/12	0.0289208	01/30/12	0.0273027	01/31/12	
sec-Butylbenzene	135-98-8	0.015	0.040	Y	2.7	0.044853	01/30/12	0.0347986	01/30/12	0.0245313	01/31/12	
Styrene	100-42-5	0.011	0.040	Y	3.6	0.0313848	01/30/12	0.0323169	01/30/12	0.0333362	01/31/12	
tert-Butylbenzene	98-06-6	0.011	0.040	Y	3.6	0.043188	01/30/12	0.0312036	01/30/12	0.0288258	01/31/12	
Tetrachloroethene	127-18-4	0.015	0.040	Y	2.7	0.0432741	01/30/12	0.041753	01/30/12	0.0617601	01/31/12	
Toluene	108-88-3	0.014	0.040	Y	2.9	0.0469235	01/30/12	0.0421189	01/30/12	0.0477686	01/31/12	

Limit of Detection (LOD) Verification Report

TEST METHOD:		EPA TO15		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		B		C		G	
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624		RTX-624		RTX-624	
MATRIX:		AIR		LOD Ref:		2							
ANALYTE	CAS #	DL ppbv	Spike ppbv	Pass Y/N	Spike/DL Ratio	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
trans-1,3-Dichloropropene	10061-02-6	0.015	0.040	Y	2.7	0.0354448	01/30/12	0.0450151	01/30/12	0.040721	01/31/12	0.040721	01/31/12
Xylene, o-	95-47-6	0.016	0.040	Y	2.5	0.0416562	01/30/12	0.0359343	01/30/12	0.0382714	01/31/12	0.0382714	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	EPA TO15		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
	PREP METHOD:	NA	Initial Amount:	200 mL	B			C			G	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624			RTX-624			RTX-624		
MATRIX:	AIR	LOD Ref:	3									
ANALYTE	CAS #	DL ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	
1,1,1-Trichloroethane	71-55-6	0.020	0.080	4.0	Y	0.0847092	01/30/12	0.085857	01/30/12	0.1010164	01/31/12	
1,1-Dichloroethane	75-34-3	0.023	0.080	3.5	Y	0.0931831	01/30/12	0.0857771	01/30/12	0.0986975	01/31/12	
1,2,3-Trichlorobenzene	87-61-6	0.041	0.080	2.0	Y	0.0539692	01/30/12	0.0771812	01/30/12	0.0473325	01/31/12	
1,2,3-Trichloropropane	96-18-4	0.025	0.080	3.2	Y	0.0977633	01/30/12	0.0754392	01/30/12	0.0944615	01/31/12	
1,2,4-Trichlorobenzene	120-82-1	0.030	0.080	2.7	Y	0.0566003	01/30/12	0.0789511	01/30/12	0.0435911	01/31/12	
1,2,4-Trimethylbenzene	95-63-6	0.021	0.080	3.8	Y	0.0829333	01/30/12	0.0685175	01/30/12	0.0631691	01/31/12	
1,2-Dichlorobenzene	95-50-1	0.026	0.080	3.1	Y	0.085858	01/30/12	0.0752173	01/30/12	0.0806144	01/31/12	
1,2-Dichloropropane	78-87-5	0.023	0.080	3.5	Y	0.0891035	01/30/12	0.0819475	01/30/12	0.0842903	01/31/12	
1,2-Dichlorotetrafluoroethane	76-14-2	0.020	0.080	4.0	Y	0.0942239	01/30/12	0.0950581	01/30/12	0.0974105	01/31/12	
1,3-Butadiene	106-99-0	0.025	0.080	3.2	Y	0.0955856	01/30/12	0.088752	01/30/12	0.084439	01/31/12	
3-Chloropropene	107-05-1	0.047	0.080	1.7	Y	0.0993075	01/30/12	0.091879	01/30/12	0.1066344	01/31/12	
4-Isopropyltoluene	99-87-6	0.020	0.080	4.0	Y	0.0788073	01/30/12	0.0615909	01/30/12	0.0668848	01/31/12	
Acrylonitrile	107-13-1	0.023	0.080	3.5	Y	0.0697887	01/30/12	0.0685497	01/30/12	0.0882696	01/31/12	
Benzyl chloride	100-44-7	0.022	0.080	3.6	Y	0.0765995	01/30/12	0.0641082	01/30/12	0.0700765	01/31/12	
Bromomethane	74-83-9	0.027	0.080	3.0	Y	0.0930672	01/30/12	0.1028085	01/30/12	0.0944654	01/31/12	
Carbon disulfide	75-15-0	0.020	0.080	4.0	Y	0.0905713	01/30/12	0.0853358	01/30/12	0.0909487	01/31/12	
Chloroethane	75-00-3	0.033	0.080	2.4	Y	0.0917268	01/30/12	0.089895	01/30/12	0.1090466	01/31/12	
Chloroform	67-66-3	0.024	0.080	3.3	Y	0.0919575	01/30/12	0.0870513	01/30/12	0.0988419	01/31/12	
Chloromethane	74-87-3	0.034	0.080	2.4	Y	0.1161505	01/30/12	0.1338395	01/30/12	0.1092541	01/31/12	
Dichlorodifluoromethane	75-71-8	0.020	0.080	4.0	Y	0.0970985	01/30/12	0.0993256	01/30/12	0.1069844	01/31/12	
Freon 22	75-45-6	0.023	0.080	3.5	Y	0.1103272	01/30/12	0.1130052	01/30/12	0.1133509	01/31/12	
Freon TF	76-13-1	0.020	0.080	4.0	Y	0.0864918	01/30/12	0.0909698	01/30/12	0.0951117	01/31/12	
Hexachlorobutadiene	87-68-3	0.029	0.080	2.8	Y	0.088581	01/30/12	0.0782484	01/30/12	0.1003174	01/31/12	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.040	0.080	2.0	Y	0.0498435	01/30/12	0.0577654	01/30/12	0.0609178	01/31/12	
Methyl Ethyl Ketone	78-93-3	0.025	0.080	3.2	Y	0.0872113	01/30/12	0.0687485	01/30/12	0.1159597	01/31/12	
Methyl isobutyl ketone	108-10-1	0.034	0.080	2.4	Y	0.0662186	01/30/12	0.0665661	01/30/12	0.0747982	01/31/12	
Methylene Chloride	75-09-2	0.023	0.080	3.5	Y	0.151845	01/30/12	0.1578643	01/30/12	0.129091	01/31/12	
Naphthalene	91-20-3	0.038	0.080	2.1	Y	0.0384757	01/30/12	0.0722274	01/30/12	0.024552	01/31/12	
n-Butane	106-97-8	0.022	0.080	3.6	Y	0.100763	01/30/12	0.0958848	01/30/12	0.1046282	01/31/12	
n-Butylbenzene	104-51-8	0.022	0.080	3.6	Y	0.0837784	01/30/12	0.0570576	01/30/12	0.0580806	01/31/12	
n-Hexane	110-54-3	0.020	0.080	4.0	Y	0.0873752	01/30/12	0.0821212	01/30/12	0.08679	01/31/12	
n-Pentane	109-66-0	0.023	0.080	3.5	Y	0.1048033	01/30/12	0.0910497	01/30/12	0.0965429	01/31/12	
n-Undecane	1120-21-4	0.034	0.080	2.4	Y	0.1022867	01/30/12	0.0466734	01/30/12	0.0571363	01/31/12	
tert-Butyl alcohol	75-65-0	0.041	0.080	2.0	Y	0.0774393	01/30/12	0.0757495	01/30/12	0.0971297	01/31/12	
Tetrahydrofuran	109-99-9	0.029	0.080	2.8	Y	0.0860254	01/30/12	0.0813159	01/30/12	0.0882096	01/31/12	
trans-1,2-Dichloroethene	156-60-5	0.023	0.080	3.5	Y	0.0847762	01/30/12	0.0794756	01/30/12	0.0924157	01/31/12	

Limit of Detection (LOD) Verification Report

TEST METHOD:	EPA TO15	Prep Date:	01/30/12, 01/31/12	Instrument(s):			
PREP METHOD:	NA	Initial Amount:	200 mL	B		C	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624		RTX-624	
MATRIX:	AIR	LOD Ref:	3				
ANALYTE	CAS #	DL	Spike	Pass	Date	Result	Date
		ppbv	ppbv	Y/N	Analyzed	ppbv	Analyzed
Trichlorofluoromethane	75-69-4	0.021	0.080	Y	01/30/12	0.089964	01/30/12
Vinyl acetate	108-05-4	0.025	0.080	Y	01/30/12	0.0670452	01/30/12
						0.094083	01/30/12
						0.0689756	01/30/12
						0.1038024	01/31/12
						0.086645	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:		EPA TO15		Prep Date:		01/30/12, 01/31/12		Instrument(s):						
PREP METHOD:		NA		Initial Amount:		200 mL		B			C			G
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624			RTX-624			RTX-624
MATRIX:		AIR		LOD Ref:		4								
ANALYTE	CAS #	DL ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	
1,1-Dichloroethene	75-35-4	0.086	0.20	2.3	Y	0.21544	01/30/12	0.2414822	01/30/12	0.1941059	01/31/12	0.1706352	01/31/12	
1,4-Dioxane	123-91-1	0.070	0.20	2.9	Y	0.1538093	01/30/12	0.1757113	01/30/12	0.1706352	01/31/12	0.2682369	01/31/12	
Acetonitrile	75-05-8	0.082	0.20	2.4	Y	0.2620567	01/30/12	0.4688481	01/30/12	0.2682369	01/31/12	0.2568267	01/31/12	
Acrolein	107-02-8	0.067	0.20	3.0	Y	0.2478182	01/30/12	0.2085343	01/30/12	0.2568267	01/31/12	0.2148304	01/31/12	
cis-1,2-Dichloroethene	156-59-2	0.084	0.20	2.4	Y	0.2065816	01/30/12	0.2304565	01/30/12	0.217851	01/31/12	0.5560324	01/31/12	
Ethanol	64-17-5	0.18	0.40	2.2	Y	0.6113607	01/30/12	0.4718399	01/30/12	0.5560324	01/31/12	0.2569577	01/31/12	
Ethyl acetate	141-78-6	0.065	0.20	3.1	Y	0.0826342	01/30/12	0.0257973	01/30/12	0.2569577	01/31/12	0.2148304	01/31/12	
Isopentane	78-78-4	0.064	0.20	3.1	Y	0.2421419	01/30/12	0.2361926	01/30/12	0.2148304	01/31/12	0.2239464	01/31/12	
Isopropyl alcohol	67-63-0	0.076	0.20	2.6	Y	0.1918079	01/30/12	0.1819499	01/30/12	0.2239464	01/31/12	0.2954564	01/31/12	
n-Butanol	71-36-3	0.14	0.20	1.4	Y	0.1789814	01/30/12	0.2396682	01/30/12	0.2954564	01/31/12	0.1318974	01/31/12	
n-Dodecane	112-40-3	0.19	0.20	1.0	Y	0.1615149	01/30/12	0.2051198	01/30/12	0.1318974	01/31/12	0.2677293	01/31/12	
Propylene	115-07-1	0.094	0.20	2.1	Y	0.271858	01/30/12	0.3481022	01/30/12	0.2677293	01/31/12			

Limit of Detection (LOD) Verification Report

TEST METHOD:	EPA TO15	Prep Date:	01/30/12, 01/31/12	Instrument(s):			
PREP METHOD:	NA	Initial Amount:	200 mL	B		C	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624		RTX-624	
MATRIX:	AIR	LOD Ref:	4				
ANALYTE	CAS #	DL	Spike	Spike/DL	Pass	Result	Date
Acetone	67-64-1	ppbv	ppbv	Ratio	Y/N	ppbv	Analyzed
		0.40	0.50	1.3	Y	1.05682	01/30/12
						0.8803931	01/30/12
						0.9494763	01/31/12

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		EPA TO15		Prep Date:		01/30/12, 01/31/12, 02/	
PREP METHOD:		NA		Initial Amount:		200 mL	
CLEANUP METHOD(S):		NA		Final Amount:		200 mL	
MATRIX:		AIR		LOQ		Pass	
ANALYTE	CAS #	LOQ ppbv	Spike ppbv	Spike / LOQ Ratio	Pass	Instrument(s):	
						B	
						C	
						G	
Vinyl chloride	75-01-4	0.040	0.040	1.0	Y	0.037653748	94
Carbon tetrachloride	56-23-5	0.040	0.040	1.0	Y	0.057302274	143
Trichloroethene	79-01-6	0.040	0.040	1.0	Y	0.047078137	117
1,2-Dichlorotetrafluoroethane	76-14-2	0.20	0.20	1.0	Y	0.226962474	113
1,3-Butadiene	106-99-0	0.20	0.20	1.0	Y	0.212136957	106
Bromomethane	74-83-9	0.20	0.20	1.0	Y	0.235466793	118
Bromoethene(Vinyl Bromide)	593-60-2	0.20	0.20	1.0	Y	0.202929167	101
Trichlorofluoromethane	75-69-4	0.20	0.20	1.0	Y	0.217889263	109
Freon TF	76-13-1	0.20	0.20	1.0	Y	0.210084144	105
1,1-Dichloroethene	75-35-4	0.20	0.20	1.0	Y	0.236801737	118
Methyl tert-butyl ether	1634-04-4	0.20	0.20	1.0	Y	0.215864572	108
trans-1,2-Dichloroethene	156-60-5	0.20	0.20	1.0	Y	0.191509899	96
n-Hexane	110-54-3	0.20	0.20	1.0	Y	0.194778498	97
1,1-Dichloroethane	75-34-3	0.20	0.20	1.0	Y	0.195251478	98
cis-1,2-Dichloroethane	156-59-2	0.20	0.20	1.0	Y	0.233783716	117
Chloroform	67-66-3	0.20	0.20	1.0	Y	0.208729889	104
1,1,1-Trichloroethane	71-55-6	0.20	0.20	1.0	Y	0.20413639	102
Cyclohexane	110-82-7	0.20	0.20	1.0	Y	0.192938431	96
2,2,4-Trimethylpentane	540-84-1	0.20	0.20	1.0	Y	0.18981289	95
Benzene	71-43-2	0.20	0.20	1.0	Y	0.205776913	103
1,2-Dichloroethane	107-06-2	0.20	0.20	1.0	Y	0.20169939	101
n-Heptane	142-82-5	0.20	0.20	1.0	Y	0.185069607	93
1,2-Dichloropropane	78-87-5	0.20	0.20	1.0	Y	0.19984162	100
Bromodichloromethane	75-27-4	0.20	0.20	1.0	Y	0.178787348	89
Dibromomethane	74-95-3	0.20	0.20	1.0	Y	0.186893166	93
cis-1,3-Dichloropropene	10061-01-5	0.20	0.20	1.0	Y	0.1984556	99
Toluene	108-88-3	0.20	0.20	1.0	Y	0.193888307	97
trans-1,3-Dichloropropene	10061-02-6	0.20	0.20	1.0	Y	0.186799607	93
1,1,2-Trichloroethane	79-00-5	0.20	0.20	1.0	Y	0.198735441	99
Tetrachloroethene	127-18-4	0.20	0.20	1.0	Y	0.191830153	96
Dibromochloromethane	124-48-1	0.20	0.20	1.0	Y	0.169791393	85
1,2-Dibromoethane	106-93-4	0.20	0.20	1.0	Y	0.181906254	91
Chlorobenzene	108-90-7	0.20	0.20	1.0	Y	0.20444255	102
Ethylbenzene	100-41-4	0.20	0.20	1.0	Y	0.192919809	96
m,p-Xylene	179601-23-1	0.40	0.40	1.0	Y	0.373681854	93
Xylene, o-	95-47-6	0.20	0.20	1.0	Y	0.194634968	97
						0.048425	121
						0.0503509	126
						0.047473	118
						0.2166011	108
						0.207543	104
						0.2183876	109
						0.2178155	109
						0.2307896	115
						0.2112665	106
						0.2295669	115
						0.1961266	98
						0.2067603	103
						0.2108638	105
						0.2178936	109
						0.2441383	122
						0.2151206	108
						0.2478879	124
						0.2086209	104
						0.2068431	103
						0.2311636	116
						0.2573214	129
						0.2075883	104
						0.1994906	100
						0.2241085	112
						0.2350577	118
						0.2190777	110
						0.2518171	126
						0.234312	117
						0.2353734	118
						0.26346	132
						0.2171467	109
						0.2259952	113
						0.2411045	121
						0.2107844	105
						0.4171524	104
						0.2085756	104

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		EPA TO15		Prep Date:		01/30/12, 01/31/12, 02/					
PREP METHOD:		NA		Initial Amount:		200 mL					
CLEANUP METHOD(S):		NA		Final Amount:		200 mL					
MATRIX:		AIR		LOQ		Pass					
ANALYTE	CAS #	LOQ ppbv	Spike ppbv	Spike / LOQ Ratio	Pass	Instrument(s):					
						B		C			
		RTX-624		RTX-624		RTX-624					
		01/30/12, 01/31/12	%R	01/30/12, 02/09/12, 02/28/12	%R	01/31/12	%R				
Styrene	100-42-5	0.20	0.20	1.0	Y	0.1610885	81	0.168681925	84	0.1825784	91
Bromoform	75-25-2	0.20	0.20	1.0	Y	0.1518521	76	0.155865313	78	0.2132712	107
Cumene	98-82-8	0.20	0.20	1.0	Y	0.1919965	96	0.194614906	97	0.2096771	105
1,1,2,2-Tetrachloroethane	79-34-5	0.20	0.20	1.0	Y	0.2190932	110	0.198034594	99	0.1973121	99
n-Propylbenzene	103-65-1	0.20	0.20	1.0	Y	0.2176803	109	0.180087873	90	0.2056518	103
4-Ethyltoluene	622-96-8	0.20	0.20	1.0	Y	0.2007357	100	0.168665588	84	0.1977668	99
1,3,5-Trimethylbenzene	108-67-8	0.20	0.20	1.0	Y	0.2052589	103	0.182155396	91	0.1949404	97
2-Chlorotoluene	95-49-8	0.20	0.20	1.0	Y	0.2155235	108	0.186098239	93	0.2324965	116
tert-Butylbenzene	98-06-6	0.20	0.20	1.0	Y	0.2031567	102	0.187843873	94	0.2195841	110
1,2,4-Trimethylbenzene	95-63-6	0.20	0.20	1.0	Y	0.1980249	99	0.184375444	92	0.1835486	92
sec-Butylbenzene	135-98-8	0.20	0.20	1.0	Y	0.2136936	107	0.186399819	93	0.1992368	100
4-Isopropyltoluene	99-87-6	0.20	0.20	1.0	Y	0.190941	95	0.174423806	87	0.1910409	96
1,3-Dichlorobenzene	541-73-1	0.20	0.20	1.0	Y	0.1904339	95	0.189661204	95	0.2039491	102
1,4-Dichlorobenzene	106-46-7	0.20	0.20	1.0	Y	0.1811234	91	0.187857839	94	0.1899928	95
Benzyl chloride	100-44-7	0.20	0.20	1.0	Y	0.1887917	94	0.173426176	87	0.1754307	88
n-Butylbenzene	104-51-8	0.20	0.20	1.0	Y	0.216894	108	0.157349697	79	0.1672985	84
1,2-Dichlorobenzene	95-50-1	0.20	0.20	1.0	Y	0.1917522	96	0.195517514	98	0.2038696	102
Hexachlorobutadiene	87-68-3	0.20	0.20	1.0	Y	0.1960653	98	0.210306905	105	0.2692485	135
1,2,3-Trichlorobenzene	87-61-6	0.20	0.20	1.0	Y	0.124589	62	0.175465772	88	0.1194694	60
Ethyl ether	60-29-7	0.20	0.20	1.0	Y	0.2113528	106	0.199897571	100	0.1967665	98
Isopentane	78-78-4	0.20	0.20	1.0	Y	0.2693743	135	0.242683191	121	0.2101781	105
n-Nonane	111-84-2	0.20	0.20	1.0	Y	0.233004	117	0.169124795	85	0.1954915	98
Alpha Methyl Styrene	98-83-9	0.20	0.20	1.0	Y	0.1511434	76	0.142595619	71	0.1719449	86
Dichlorodifluoromethane	75-71-8	0.50	0.50	1.0	Y	0.6652969	133	0.605556406	121	0.5640332	113
Freon 22	75-45-6	0.50	0.50	1.0	Y	0.6807316	136	0.534866731	107	0.5578464	112
Chloromethane	74-87-3	0.50	0.50	1.0	Y	0.7072121	141	0.572340069	114	0.5452139	109
n-Butane	106-97-8	0.50	0.50	1.0	Y	0.6783094	136	0.525345233	105	0.5107488	102
Chloroethane	75-00-3	0.50	0.50	1.0	Y	0.6750309	135	0.561782534	112	0.552979	111
Ethanol	64-17-5	5.0	5.0	1.0	Y	6.414391	128	4.588677443	92	4.5392526	91
Carbon disulfide	75-15-0	0.50	0.50	1.0	Y	0.583639	117	0.498735702	100	0.4880552	98
3-Chloropropene	107-05-1	0.50	0.50	1.0	Y	0.5739317	115	0.423878997	85	0.5154411	103
Methylene Chloride	75-09-2	0.50	0.50	1.0	Y	0.6933183	139	0.560089251	112	0.5694856	114
Methyl Ethyl Ketone	78-93-3	0.50	0.50	1.0	Y	0.5817211	116	0.513150981	103	0.5314954	106
Methyl methacrylate	80-62-6	0.50	0.50	1.0	Y	0.4559876	91	0.422457781	84	0.4628928	93
Methyl isobutyl ketone	108-10-1	0.50	0.50	1.0	Y	0.5368203	107	0.465013224	93	0.4965566	99
Methyl Butyl Ketone (2-Hexanol	591-78-6	0.50	0.50	1.0	Y	0.4598035	92	0.432799764	87	0.5299716	106

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		EPA TO15		Prep Date:		01/30/12, 01/31/12, 02/		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		C					
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624					
MATRIX:		AIR		CSV Ref:		LOQ		B		C		G	
ANALYTE	CAS #	LOQ ppbv	Spike ppbv	Spike / LOQ Ratio	Pass	RTX-624		RTX-624		RTX-624		RTX-624	
						01/30/12, 01/31/12	%R	01/30/12, 02/09/12, 02/28/12	%R	01/31/12	%R	01/31/12	%R
1,2,4-Trichlorobenzene	120-82-1	0.50	0.50	1.0	Y	0.3865497	77	0.443693854	89	0.3481276	70		
Naphthalene	91-20-3	0.50	0.50	1.0	Y	0.380915	76	0.427072059	85	0.3103585	62		
1,2,3-Trichloropropane	96-18-4	0.50	0.50	1.0	Y	0.5973531	119	0.49043631	98	0.5194116	104		
n-Decane	124-18-5	0.50	0.50	1.0	Y	0.625222	125	0.307285191	61	0.432654	87		
n-Octane	111-65-9	0.50	0.50	1.0	Y	0.6737594	135	0.448385812	90	0.4802081	96		
n-Pentane	109-66-0	0.50	0.50	1.0	Y	0.6811029	136	0.489728166	98	0.4541239	91		
Acrylonitrile	107-13-1	0.50	0.50	1.0	Y	0.5651999	113	0.466895501	93	0.4965948	99		
Propylene	115-07-1	5.0	5.0	1.0	Y	6.2890372	126	4.963429273	99	5.0779861	102		
Acetone	67-64-1	5.0	5.0	1.0	Y	6.8730918	138	4.868555067	98	6.127913	123		
Isopropyl alcohol	67-63-0	5.0	5.0	1.0	Y	5.7955138	116	4.748712087	95	5.8711771	118		
tert-Butyl alcohol	75-65-0	5.0	5.0	1.0	Y	5.7298763	115	4.769935009	96	5.8027565	116		
Vinyl acetate	108-05-4	5.0	5.0	1.0	Y	6.2197289	125	4.530989643	91	5.5677659	112		
Ethyl acetate	141-78-6	5.0	5.0	1.0	Y	5.1923032	104	4.050578521	81	5.2451261	105		
Tetrahydrofuran	109-99-9	5.0	5.0	1.0	Y	6.4020166	128	4.179536752	84	4.9814126	100		
1,4-Dioxane	123-91-1	5.0	5.0	1.0	Y	5.214428	104	4.519464281	91	5.2969506	106		
Acetonitrile	75-05-8	5.0	5.0	1.0	Y	6.3148979	127	5.280957546	106	5.0024665	100		
Acrolein	107-02-8	5.0	5.0	1.0	Y	5.9856251	120	4.506646391	90	6.2722431	126		
n-Dodecane	112-40-3	5.0	5.0	1.0	Y	6.5131796	131	2.645476656	53	4.6162814	93		
n-Undecane	1120-21-4	5.0	5.0	1.0	Y	7.0288046	141	5.340271543	107	4.2634973	85		
n-Butanol	71-36-3	5.0	5.0	1.0	Y	5.2636989	105	4.63588975	93	5.4638248	109		

Note: Pass = The %R on each instrument is within 50-150%

Method T015 Low Level - New Jersey

Volatile Organic Compounds - Low
level (GC/MS) by New Jersey Method
TO 15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-18242-1
 SDG No.: 200-18242
 Matrix: Air Level: Low Lab File ID: giik07.d
 Lab ID: LCS 200-60708/7 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	0.200	0.208	104	60-140	
1,1-Dichloroethene	0.200	0.233	116	60-140	
1,2-Dichloroethene, trans-	0.200	0.206	103	60-140	
1,1-Dichloroethane	0.200	0.190 J	95	60-140	
1,2-Dichloroethene, cis-	0.200	0.217	108	60-140	
1,1,1-Trichloroethane	0.200	0.228	114	60-140	
Carbon tetrachloride	0.200	0.211	105	60-140	
1,2-Dichloroethane	0.200	0.210	105	60-140	
Trichloroethene	0.200	0.203	101	60-140	
Tetrachloroethene	0.200	0.197 J	98	60-140	

Column to be used to flag recovery and RPD values

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-18242-1
 SDG No.: 200-18242
 Lab File ID: giik03.d Lab Sample ID: MB 200-60708/3
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: G.i Date Analyzed: 09/04/2013 12:52
 GC Column: RTX-624 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-60708/7	giik07.d	09/04/2013 16:00
SG-082913-SGP-01	200-18242-1	giik10.d	09/04/2013 18:45
AA-082913-SGP-01	200-18242-2	giik11.d	09/04/2013 19:32

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-18242-1
 SDG No.: 200-18242
 Lab File ID: gii01.d BFB Injection Date: 08/19/2013
 Instrument ID: G.i BFB Injection Time: 14:11
 Analysis Batch No.: 60710

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	13.4	
75	30.0 - 66.0% of mass 95	41.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	0.4	(0.4) 1
174	50.0 - 120.0% of mass 95	104.8	
175	4.0 - 9.0 % of mass 174	7.0	(6.7) 1
176	93.0 - 101.0% of mass 174	103.0	(98.2) 1
177	5.0 - 9.0% of mass 176	6.5	(6.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-60710/5	gii05.d	08/19/2013	17:16
	IC 200-60710/6	gii06.d	08/19/2013	18:03
	IC 200-60710/7	gii07.d	08/19/2013	18:50
	ICIS 200-60710/8	gii08.d	08/19/2013	19:37
	IC 200-60710/9	gii09.d	08/19/2013	20:24
	IC 200-60710/10	gii10.d	08/19/2013	21:11
	IC 200-60710/11	gii11.d	08/19/2013	21:59
	ICV 200-60710/14	gii14.d	08/20/2013	00:20

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-18242-1
 SDG No.: 200-18242
 Lab File ID: giik01.d BFB Injection Date: 09/04/2013
 Instrument ID: G.i BFB Injection Time: 11:12
 Analysis Batch No.: 60708

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	14.6	
75	30.0 - 66.0% of mass 95	43.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	0.4	(0.4) 1
174	50.0 - 120.0% of mass 95	90.2	
175	4.0 - 9.0 % of mass 174	6.4	(7.1) 1
176	93.0 - 101.0% of mass 174	89.1	(98.7) 1
177	5.0 - 9.0% of mass 176	5.7	(6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-60708/2	giik02.d	09/04/2013	12:00
	MB 200-60708/3	giik03.d	09/04/2013	12:52
	LCS 200-60708/5	giik05.d	09/04/2013	14:26
	LCS 200-60708/6	giik06.d	09/04/2013	15:13
	LCS 200-60708/7	giik07.d	09/04/2013	16:00
SG-082913-SGP-01	200-18242-1	giik10.d	09/04/2013	18:45
AA-082913-SGP-01	200-18242-2	giik11.d	09/04/2013	19:32
	CCVC 200-60708/24	giik24.d	09/05/2013	09:41
	CCVC 200-60708/25	giik25.d	09/05/2013	10:28

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-18242-1
 SDG No.: 200-18242
 Sample No.: ICIS 200-60710/8 Date Analyzed: 08/19/2013 19:37
 Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): gii08.d Heated Purge: (Y/N) N
 Calibration ID: 23177

	BCM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	555028	10.75	3203524	12.82	3078858	18.98
UPPER LIMIT	777039	11.08	4484934	13.15	4310401	19.31
LOWER LIMIT	333017	10.42	1922114	12.49	1847315	18.65
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-60710/14	567698	10.75	3424527	12.82	3325994	18.98

BCM = Chlorobromomethane
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-18242-1
 SDG No.: 200-18242
 Sample No.: CCVIS 200-60708/2 Date Analyzed: 09/04/2013 12:00
 Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): giik02.d Heated Purge: (Y/N) N
 Calibration ID: 23177

	BCM		DFB		CBZ			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	543215	10.73	2720619	12.80	2505199	18.96		
UPPER LIMIT	760501	11.06	3808867	13.13	3507279	19.29		
LOWER LIMIT	325929	10.40	1632371	12.47	1503119	18.63		
LAB SAMPLE ID	CLIENT SAMPLE ID							
MB 200-60708/3			512816	10.73	2593983	12.80	2172965	18.96
LCS 200-60708/5			543747	10.73	2743395	12.80	2435646	18.96
LCS 200-60708/6			537311	10.73	2709502	12.80	2517761	18.96
LCS 200-60708/7			542975	10.73	2758001	12.80	2433330	18.96
200-18242-1	SG-082913-SGP-01		537759	10.73	2873263	12.80	2428177	18.96
200-18242-2	AA-082913-SGP-01		529825	10.73	2701730	12.80	2291210	18.96

BCM = Chlorobromomethane
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-18242-1
 SDG No.: 200-18242
 Client Sample ID: SG-082913-SGP-01 Lab Sample ID: 200-18242-1
 Matrix: Air Lab File ID: giik10.d
 Analysis Method: TO15LL/NJ Date Collected: 08/29/2013 10:27
 Sample wt/vol: 20 (mL) Date Analyzed: 09/04/2013 18:45
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 60708 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	2.0	U	2.0	0.091
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.86
156-60-5	1,2-Dichloroethene, trans-	3.0		2.0	0.23
75-34-3	1,1-Dichloroethane	2.0	U	2.0	0.23
156-59-2	1,2-Dichloroethene, cis-	7.8		2.0	0.84
71-55-6	1,1,1-Trichloroethane	4.8		2.0	0.20
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.13
107-06-2	1,2-Dichloroethane	2.0	U	2.0	0.18
79-01-6	Trichloroethene	43		2.0	0.092
127-18-4	Tetrachloroethene	260		2.0	0.15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-18242-1
 SDG No.: 200-18242
 Client Sample ID: AA-082913-SGP-01 Lab Sample ID: 200-18242-2
 Matrix: Air Lab File ID: giik11.d
 Analysis Method: TO15LL/NJ Date Collected: 08/29/2013 10:27
 Sample wt/vol: 200(mL) Date Analyzed: 09/04/2013 19:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 60708 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.20	U	0.20	0.0091
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.086
156-60-5	1,2-Dichloroethene, trans-	0.20	U	0.20	0.023
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.023
156-59-2	1,2-Dichloroethene, cis-	0.20	U	0.20	0.084
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.020
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.013
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.018
79-01-6	Trichloroethene	0.20	U	0.20	0.0092
127-18-4	Tetrachloroethene	0.20	U	0.20	0.015

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-18242-1 Analy Batch No.: 60710

SDG No.: 200-18242

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2013 17:16 Calibration End Date: 08/19/2013 21:59 Calibration ID: 23177

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-60710/5	gii05.d
Level 2	IC 200-60710/6	gii06.d
Level 3	IC 200-60710/7	gii07.d
Level 4	ICIS 200-60710/8	gii08.d
Level 5	IC 200-60710/9	gii09.d
Level 6	IC 200-60710/10	gii10.d
Level 7	IC 200-60710/11	gii11.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Dichlorodifluoromethane	++++ 2.0271	2.5663 1.8767	2.1580	2.1807	2.0911	Ave		2.1500			10.8		30.0				
1,2-Dichlorotetrafluoroethane	2.7289 1.9320	2.5292 1.7562	2.0910	2.0884	1.9927	Ave		2.1598			16.0		30.0				
Chloromethane	++++ 0.4570	0.5936 0.4337	0.4778	0.4806	0.4644	Ave		0.4845			11.6		30.0				
Vinyl chloride	0.7702 0.5640	0.6895 0.5309	0.5952	0.6049	0.5821	Ave		0.6196			13.3		30.0				
1,3-Butadiene	0.5219 0.3764	0.5030 0.3541	0.3965	0.3985	0.3768	Ave		0.4182			15.9		30.0				
Bromomethane	0.9609 0.6991	0.9031 0.6567	0.7416	0.7436	0.7134	Ave		0.7741			14.6		30.0				
Chloroethane	++++ 0.2276	0.3055 0.2175	0.2414	0.2408	0.2302	Ave		0.2439			12.9		30.0				
Vinyl bromide	1.1221 0.7988	0.9799 0.7481	0.8451	0.8393	0.8185	Ave		0.8788			14.6		30.0				
Trichlorofluoromethane	3.2754 2.3521	2.9763 2.2325	2.4659	2.4941	2.4144	Ave		2.6015			14.5		30.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0966 1.4682	1.9078 1.3461	1.5885	1.5900	1.5120	Ave		1.6442			16.0		30.0				
1,1-Dichloroethene	1.0045 0.6162	0.8667 0.5720	0.6585	0.6627	0.6329	Ave		0.7162			22.1		30.0				
Acetone	++++ 0.7695	++++ 0.6928	0.8935	0.9046	0.7653	Ave		0.8051			11.3		30.0				
Carbon disulfide	++++ 1.9672	2.4341 1.8411	2.0836	2.0701	1.9871	Ave		2.0639			9.7		30.0				
Isopropanol	++++ 0.5744	++++ 0.5560	0.6426	0.7177	0.6013	Ave		0.6184			10.4		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

Analy Batch No.: 60710

SDG No.: 200-18242

Instrument ID: G.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2013 17:16

Calibration End Date: 08/19/2013 21:59

Calibration ID: 23177

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Allyl chloride	0.7453 0.5715	0.7133 0.5425	0.5889	0.6023	0.5804	Ave		0.6206			12.4		30.0				
Methylene Chloride	++++ 0.5916	0.8013 0.5615	0.6241	0.6285	0.6059	Ave		0.6355			13.3		30.0				
tert-Butyl alcohol	++++ 0.9684	++++ 0.9333	1.0518	1.1557	0.9931	Ave		1.0205			8.5		30.0				
Methyl tert-butyl ether	2.3566 1.7149	2.1314 1.5988	1.8009	1.8262	1.7560	Ave		1.8835			14.1		30.0				
1,2-Dichloroethene, trans-	1.3017 0.8803	1.1513 0.8097	0.9354	0.9461	0.8972	Ave		0.9888			17.6		30.0				
n-Hexane	1.3325 0.7758	1.0238 0.7243	0.8174	0.8245	0.7885	Ave		0.8981			23.8		30.0				
1,1-Dichloroethane	1.6444 1.2255	1.5596 1.1513	1.2826	1.2877	1.2541	Ave		1.3436			13.7		30.0				
1,2-Dichloroethene, cis-	1.4743 0.9412	1.2284 0.8812	0.9862	0.9925	0.9638	Ave		1.0668			19.7		30.0				
Methyl Ethyl Ketone	++++ 0.3573	0.6189 0.3360	0.3836	0.3924	0.3689	Ave		0.4095			25.5		30.0				
Tetrahydrofuran	++++ 0.1163	++++ 0.1088	0.1298	0.1280	0.1223	Ave		0.1210			7.1		30.0				
Chloroform	2.9147 2.2095	2.7180 2.0753	2.3129	2.3298	2.2548	Ave		2.4021			12.5		30.0				
Cyclohexane	0.2800 0.1925	0.2650 0.1743	0.2193	0.2108	0.2018	Ave		0.2205			17.5		30.0				
1,1,1-Trichloroethane	0.5982 0.4287	0.5523 0.3978	0.4686	0.4642	0.4464	Ave		0.4795			14.8		30.0				
Carbon tetrachloride	0.7176 0.5291	0.6478 0.4979	0.5614	0.5619	0.5461	Ave		0.5803			13.1		30.0				
2,2,4-Trimethylpentane	1.0394 0.6803	0.9541 0.6049	0.7933	0.7640	0.7200	Ave		0.7937			19.3		30.0				
Benzene	0.7699 0.5072	0.6999 0.4504	0.5865	0.5630	0.5334	Ave		0.5872			19.0		30.0				
1,2-Dichloroethane	0.3727 0.2616	0.3278 0.2463	0.2802	0.2798	0.2691	Ave		0.2911			15.1		30.0				
n-Heptane	0.5055 0.2567	0.3831 0.2308	0.2956	0.2837	0.2676	Ave		0.3176			30.1	*	30.0				
Trichloroethene	0.4627 0.3269	0.4138 0.3014	0.3470	0.3506	0.3384	Ave		0.3630			15.4		30.0				
1,2-Dichloropropane	0.3480 0.2417	0.3117 0.2238	0.2652	0.2614	0.2503	Ave		0.2717			15.9		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

Analy Batch No.: 60710

SDG No.: 200-18242

Instrument ID: G.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2013 17:16

Calibration End Date: 08/19/2013 21:59

Calibration ID: 23177

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Methyl methacrylate	++++ 0.2322	0.2633 0.2162	0.2431	0.2473	0.2404	Ave		0.2404			6.5		30.0				
1,4-Dioxane	++++ 0.0981	0.1158 0.0883	0.1328	0.1041		Ave		0.1078			15.9		30.0				
Bromodichloromethane	0.7353 0.5774	0.6729 0.5404	0.6022	0.6119	0.5958	Ave		0.6194			10.5		30.0				
1,3-Dichloropropene, cis-	0.5114 0.4021	0.4737 0.3782	0.4156	0.4206	0.4173	Ave		0.4313			10.6		30.0				
Methyl isobutyl ketone	++++ 0.4270	0.5355 0.3897	0.4743	0.4709	0.4465	Ave		0.4573			10.8		30.0				
Toluene	0.8278 0.5356	0.7140 0.4944	0.5983	0.5828	0.5553	Ave		0.6154			18.9		30.0				
1,3-Dichloropropene, trans-	0.6206 0.4154	0.4639 0.3959	0.4222	0.4315	0.4264	Ave		0.4537			16.8		30.0				
1,1,2-Trichloroethane	0.3930 0.2784	0.3784 0.2556	0.3100	0.3035	0.2898	Ave		0.3155			16.2		30.0				
Tetrachloroethene	0.7787 0.5522	0.6860 0.5158	0.5735	0.5818	0.5640	Ave		0.6074			15.1		30.0				
Dibromochloromethane	0.8492 0.7065	0.7817 0.6643	0.7242	0.7411	0.7259	Ave		0.7418			8.0		30.0				
1,2-Dibromoethane	0.7367 0.5592	0.6706 0.5237	0.5856	0.5895	0.5746	Ave		0.6057			12.0		30.0				
Chlorobenzene	1.0312 0.7441	0.9270 0.6863	0.7960	0.7916	0.7680	Ave		0.8206			14.4		30.0				
Ethylbenzene	1.6421 1.1483	1.4932 1.0400	1.2642	1.2471	1.1927	Ave		1.2897			16.1		30.0				
m-Xylene & p-Xylene	0.6362 0.4465	0.5906 0.3839	0.5020	0.4916	0.4677	Ave		0.5026			17.1		30.0				
o-Xylene	0.6337 0.4593	0.5890 0.4170	0.4994	0.4990	0.4779	Ave		0.5107			14.7		30.0				
Styrene	0.4526 0.7048	0.6608 0.6536	0.7303	0.7291	0.7203	Ave		0.6645			14.8		30.0				
Bromoform	0.7437 0.7458	0.6894 0.6979	0.7212	0.7644	0.7624	Ave		0.7321			4.1		30.0				
1,1,2,2-Tetrachloroethane	0.9485 0.6828	0.8744 0.5935	0.7751	0.7533	0.7187	Ave		0.7638			15.5		30.0				
4-Ethyltoluene	1.4781 1.0539	1.3891 0.7970	1.3077	1.2615	1.1620	Ave		1.2070			18.9		30.0				
2-Chlorotoluene	1.3822 0.8773	1.2509 0.6660	1.0997	1.0413	0.9635	Ave		1.0401			22.8		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-18242-1 Analy Batch No.: 60710

SDG No.: 200-18242

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2013 17:16 Calibration End Date: 08/19/2013 21:59 Calibration ID: 23177

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
1,3,5-Trimethylbenzene	1.4241 1.0774	1.3004 0.9406	1.1753	1.1564	1.1153	Ave		1.1699			13.3		30.0				
1,2,4-Trimethylbenzene	1.2926 1.0541	1.1934 0.9256	1.1358	1.1289	1.0979	Ave		1.1183			10.2		30.0				
1,3-Dichlorobenzene	0.6692 0.7147	0.6133 0.6383	0.6846	0.7167	0.7286	Ave		0.6808			6.4		30.0				
1,4-Dichlorobenzene	0.5914 0.6979	0.5470 0.6758	0.6183	0.6618	0.6963	Ave		0.6412			8.9		30.0				
1,2-Dichlorobenzene	0.7188 0.7133	0.6678 0.6821	0.6824	0.7062	0.7200	Ave		0.6987			3.0		30.0				
1,2,4-Trichlorobenzene	++++ 0.3520	0.1703 0.3971	0.2609	0.2912	0.3500	Ave		0.3036			26.8		30.0				
Hexachlorobutadiene	0.7315 0.6093	0.6497 0.5520	0.6341	0.6420	0.6388	Ave		0.6368			8.4		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-18242-1 Analy Batch No.: 60710

SDG No.: 200-18242

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2013 17:16 Calibration End Date: 08/19/2013 21:59 Calibration ID: 23177

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-60710/5	gii05.d
Level 2	IC 200-60710/6	gii06.d
Level 3	IC 200-60710/7	gii07.d
Level 4	ICIS 200-60710/8	gii08.d
Level 5	IC 200-60710/9	gii09.d
Level 6	IC 200-60710/10	gii10.d
Level 7	IC 200-60710/11	gii11.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	BCM	Ave	++++ 2246591	72570 4160772	606041	1210326	1732287	++++ 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichlorotetrafluoroethane	BCM	Ave	30856 2141173	71520 3893684	587207	1159132	1650722	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chloromethane	BCM	Ave	++++ 506510	16785 961460	134184	266768	384740	++++ 20.0	0.500 40.0	5.00	10.0	15.0
Vinyl chloride	BCM	Ave	8709 625107	19497 1176977	167160	335751	482209	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Butadiene	BCM	Ave	5901 417185	14224 784989	111357	221199	312142	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromomethane	BCM	Ave	10865 774840	25539 1455895	208276	412720	590999	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chloroethane	BCM	Ave	++++ 252232	8639 482237	67805	133657	190734	++++ 20.0	0.500 40.0	5.00	10.0	15.0
Vinyl bromide	BCM	Ave	12688 885310	27709 1658571	237338	465823	678055	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Trichlorofluoromethane	BCM	Ave	37035 2606771	84165 4949578	692492	1384308	2000058	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2-Trichloro-1,2,2-trifluoroethane	BCM	Ave	23707 1627161	53949 2984327	446100	882481	1252585	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1-Dichloroethene	BCM	Ave	11358 682880	24510 1268150	184939	367804	524285	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acetone	BCM	Ave	++++ 852809	++++ 1535918	250914	502056	634011	++++ 20.0	++++ 40.0	5.00	10.0	15.0
Carbon disulfide	BCM	Ave	++++ 2180144	68832 4081786	585145	1148987	1646162	++++ 20.0	0.500 40.0	5.00	10.0	15.0
Isopropanol	BCM	Ave	++++ 636570	++++ 1232622	180449	398342	498098	++++ 20.0	++++ 40.0	5.00	10.0	15.0
Allyl chloride	BCM	Ave	8427 633334	20170 1202707	165387	334295	480831	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington

Job No.: 200-18242-1

Analy Batch No.: 60710

SDG No.: 200-18242

Instrument ID: G.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2013 17:16

Calibration End Date: 08/19/2013 21:59

Calibration ID: 23177

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methylene Chloride	BCM	Ave	++++ 655709	22659 1244834	175256	348822	501908	++++ 20.0	0.500 40.0	5.00	10.0	15.0
tert-Butyl alcohol	BCM	Ave	++++ 1073290	32558 2069141	295377	641458	822695	++++ 20.0	++++ 40.0	5.00	10.0	15.0
Methyl tert-butyl ether	BCM	Ave	26646 1900530	60271 3544594	505750	1013577	1454689	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloroethene, trans-	BCM	Ave	14718 975570	32558 1795069	262680	525110	743283	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Hexane	BCM	Ave	15067 859829	28952 1605753	229552	457619	653223	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1-Dichloroethane	BCM	Ave	18593 1358242	44104 2552574	360189	714710	1038936	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloroethene, cis-	BCM	Ave	16670 1043155	34737 1953617	276949	550860	798442	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl Ethyl Ketone	BCM	Ave	++++ 395988	17502 744929	107733	217798	305575	++++ 20.0	0.500 40.0	5.00	10.0	15.0
Tetrahydrofuran	DFB	Ave	++++ 761683	++++ 1436229	204274	410104	588687	++++ 20.0	++++ 40.0	5.00	10.0	15.0
Chloroform	BCM	Ave	32957 2448712	76860 4600977	649516	1293123	1867912	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Cyclohexane	DFB	Ave	17740 1260681	41825 2300261	345208	675424	971195	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,1-Trichloroethane	DFB	Ave	37894 2807772	87163 5251491	737592	1486992	2148367	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Carbon tetrachloride	DFB	Ave	45460 3465198	102234 6572024	883592	1800099	2628327	0.200 20.0	0.500 40.0	5.00	10.0	15.0
2,2,4-Trimethylpentane	DFB	Ave	65843 4455893	150563 7985490	1248593	2447519	3464906	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Benzene	DFB	Ave	48769 3321957	110455 5945408	923051	1803622	2567164	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloroethane	DFB	Ave	23613 1713430	51722 3250991	440964	896406	1295227	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Heptane	DFB	Ave	32024 1680998	60453 3046199	465280	908814	1287824	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Trichloroethene	DFB	Ave	29314 2140827	65306 3978804	546167	1123215	1628651	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloropropane	DFB	Ave	22045 1583037	49186 2954495	417358	837541	1204468	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl methacrylate	DFB	Ave	++++ 1521102	41557 2854263	382579	792107	1156838	++++ 20.0	0.500 40.0	5.00	10.0	15.0
1,4-Dioxane	DFB	Ave	++++ 642420	++++ 1165969	182215	425459	501120	++++ 20.0	++++ 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-18242-1 Analy Batch No.: 60710

SDG No.: 200-18242

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2013 17:16 Calibration End Date: 08/19/2013 21:59 Calibration ID: 23177

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Bromodichloromethane	DFB	Ave	46582 3781969	106183 7133753	947878	1960153	2867155	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichloropropene, cis-	DFB	Ave	32397 2633752	74756 4992912	654135	1347309	2008018	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl isobutyl ketone	DFB	Ave	++++ 2797075	84511 5143732	746534	1508476	2148718	++++ 20.0	0.500 40.0	5.00	10.0	15.0
Toluene	CBZ	Ave	47093 3410835	102038 6345665	887066	1794322	2604456	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichloropropene, trans-	DFB	Ave	39316 2721086	73205 5225993	664498	1382476	2052272	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2-Trichloroethane	CBZ	Ave	22357 1772636	54080 3281483	459663	934424	1359213	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Tetrachloroethene	CBZ	Ave	44301 3516722	98037 6620550	850376	1791233	2645118	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Dibromochloromethane	CBZ	Ave	48310 4499256	111714 8526605	1073683	2281645	3404617	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dibromoethane	CBZ	Ave	41912 3560835	95832 6722428	868245	1814874	2695186	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chlorobenzene	CBZ	Ave	58667 4738790	132480 8809673	1180247	2437261	3602230	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Ethylbenzene	CBZ	Ave	93419 7312705	213403 13350049	1874449	3839532	5593837	0.200 20.0	0.500 40.0	5.00	10.0	15.0
m-Xylene & p-Xylene	CBZ	Ave	72387 5686322	168803 9854523	1488545	3026985	4387023	0.400 40.0	1.00 80.0	10.0	20.0	30.0
o-Xylene	CBZ	Ave	36050 2924827	84178 5352777	740394	1536356	2241252	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Styrene	CBZ	Ave	25748 4488443	94432 8389255	1082863	2244796	3378312	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromoform	CBZ	Ave	42307 4749545	98525 8958487	1069354	2353351	3575957	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	53959 4348459	124958 7618765	1149238	2319220	3370685	0.200 20.0	0.500 40.0	5.00	10.0	15.0
4-Ethyltoluene	CBZ	Ave	84088 6711442	198526 10230622	1938832	3883942	5450136	0.200 20.0	0.500 40.0	5.00	10.0	15.0
2-Chlorotoluene	CBZ	Ave	78636 5586795	178775 8549401	1630436	3205974	4519244	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3,5-Trimethylbenzene	CBZ	Ave	81015 6860966	185849 12073030	1742526	3560399	5231143	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2,4-Trimethylbenzene	CBZ	Ave	73535 6712847	170546 11881221	1684038	3475808	5149559	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichlorobenzene	CBZ	Ave	38072 4551037	87645 8192720	1015063	2206521	3417169	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
 AIR - GC/MS VOA INITIAL CALIBRATION DATA
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-18242-1 Analy Batch No.: 60710

SDG No.: 200-18242

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/19/2013 17:16 Calibration End Date: 08/19/2013 21:59 Calibration ID: 23177

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
1,4-Dichlorobenzene	CBZ	Ave	33644 4444210	78178 8674775	916800	2037583	3266021	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichlorobenzene	CBZ	Ave	40892 4542571	95438 8756079	1011792	2174274	3377097	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2,4-Trichlorobenzene	CBZ	Ave	++++ 2241662	24332 5096762	386803	896524	1641531	++++ 20.0	0.500 40.0	5.00	10.0	15.0
Hexachlorobutadiene	CBZ	Ave	41614 3879828	92854 7085274	940214	1976688	2995988	0.200 20.0	0.500 40.0	5.00	10.0	15.0

Curve Type Legend:

Ave = Average ISTD

FORM III
AIR - GC/MS VOA INITIAL CALIBRATION VERIFICATION RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-18242-1
 SDG No.: 200-18242
 Matrix: Air Level: Low Lab File ID: gii14.d
 Lab ID: ICV 200-60710/14 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	ICV CONCENTRATION (ppb v/v)	ICV % REC	QC LIMITS REC	#
Vinyl chloride	10.0	10.0	100	70-130	
1,1-Dichloroethene	10.0	10.4	104	70-130	
1,2-Dichloroethene, trans-	10.0	9.71	97	70-130	
1,1-Dichloroethane	10.0	9.85	98	70-130	
1,2-Dichloroethene, cis-	10.0	9.75	98	70-130	
1,1,1-Trichloroethane	10.0	9.41	94	70-130	
Carbon tetrachloride	10.0	9.47	95	70-130	
1,2-Dichloroethane	10.0	9.34	93	70-130	
Trichloroethene	10.0	9.59	96	70-130	
Tetrachloroethene	10.0	9.44	94	70-130	

Column to be used to flag recovery and RPD values

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-18242-1
 SDG No.: 200-18242
 Lab Sample ID: CCVIS 200-60708/2 Calibration Date: 09/04/2013 12:00
 Instrument ID: G.i Calib Start Date: 08/19/2013 17:16
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/19/2013 21:59
 Lab File ID: giik02.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	2.150	2.359		11.0	10.0	9.7	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.160	2.279		10.6	10.0	5.5	30.0
Chloromethane	Ave	0.4845	0.5040		10.4	10.0	4.0	30.0
Vinyl chloride	Ave	0.6196	0.6511		10.5	10.0	5.1	30.0
1,3-Butadiene	Ave	0.4182	0.4097		9.80	10.0	-2.0	30.0
Bromomethane	Ave	0.7741	0.8676		11.2	10.0	12.1	30.0
Chloroethane	Ave	0.2439	0.2747		11.3	10.0	12.7	30.0
Vinyl bromide	Ave	0.8788	0.9441		10.7	10.0	7.4	30.0
Trichlorofluoromethane	Ave	2.602	2.690		10.3	10.0	3.4	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.644	1.731		10.5	10.0	5.3	30.0
1,1-Dichloroethene	Ave	0.7162	0.7080		9.88	10.0	-1.2	30.0
Acetone	Ave	0.8051	1.009		12.5	10.0	25.3	30.0
Carbon disulfide	Ave	2.064	2.189		10.6	10.0	6.1	30.0
Isopropanol	Ave	0.6184	0.6991		11.3	10.0	13.1	30.0
Allyl chloride	Ave	0.6206	0.5899		9.50	10.0	-5.0	30.0
Methylene Chloride	Ave	0.6355	0.6517		10.3	10.0	2.6	30.0
tert-Butyl alcohol	Ave	1.020	1.178		11.5	10.0	15.5	30.0
Methyl tert-butyl ether	Ave	1.884	1.848		9.81	10.0	-1.9	30.0
1,2-Dichloroethene, trans-	Ave	0.9888	0.9779		9.89	10.0	-1.1	30.0
n-Hexane	Ave	0.8981	0.8181		9.11	10.0	-8.9	30.0
1,1-Dichloroethane	Ave	1.344	1.328		9.88	10.0	-1.2	30.0
1,2-Dichloroethene, cis-	Ave	1.067	0.9781		9.17	10.0	-8.3	30.0
Methyl Ethyl Ketone	Ave	0.4095	0.3718		9.08	10.0	-9.2	30.0
Tetrahydrofuran	Ave	0.1210	0.1387		11.5	10.0	14.6	30.0
Chloroform	Ave	2.402	2.275		9.47	10.0	-5.3	30.0
Cyclohexane	Ave	0.2205	0.2271		10.3	10.0	3.0	30.0
1,1,1-Trichloroethane	Ave	0.4795	0.5089		10.6	10.0	6.1	30.0
Carbon tetrachloride	Ave	0.5803	0.6159		10.6	10.0	6.1	30.0
2,2,4-Trimethylpentane	Ave	0.7937	0.7866		9.91	10.0	-0.9	30.0
Benzene	Ave	0.5872	0.5804		9.88	10.0	-1.1	30.0
1,2-Dichloroethane	Ave	0.2911	0.3034		10.4	10.0	4.2	30.0
n-Heptane	Ave	0.3176	0.2913		9.17	10.0	-8.3	30.0
Trichloroethene	Ave	0.3630	0.3466		9.55	10.0	-4.5	30.0
1,2-Dichloropropane	Ave	0.2717	0.2606		9.59	10.0	-4.1	30.0
Methyl methacrylate	Ave	0.2404	0.2342		9.74	10.0	-2.6	30.0
1,4-Dioxane	Ave	0.1078	0.1277		11.8	10.0	18.4	30.0
Bromodichloromethane	Ave	0.6194	0.6169		9.96	10.0	-0.4	30.0
1,3-Dichloropropene, cis-	Ave	0.4313	0.4214		9.77	10.0	-2.3	30.0
Methyl isobutyl ketone	Ave	0.4573	0.4663		10.2	10.0	2.0	30.0
Toluene	Ave	0.6154	0.5701		9.26	10.0	-7.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-18242-1
 SDG No.: 200-18242
 Lab Sample ID: CCVIS 200-60708/2 Calibration Date: 09/04/2013 12:00
 Instrument ID: G.i Calib Start Date: 08/19/2013 17:16
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/19/2013 21:59
 Lab File ID: giik02.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropene, trans-	Ave	0.4537	0.4353		9.59	10.0	-4.1	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.3111		9.86	10.0	-1.4	30.0
Tetrachloroethene	Ave	0.6074	0.5624		9.26	10.0	-7.4	30.0
Dibromochloromethane	Ave	0.7418	0.7725		10.4	10.0	4.1	30.0
1,2-Dibromoethane	Ave	0.6057	0.5993		9.89	10.0	-1.1	30.0
Chlorobenzene	Ave	0.8206	0.7844		9.56	10.0	-4.4	30.0
Ethylbenzene	Ave	1.290	1.237		9.59	10.0	-4.1	30.0
m-Xylene & p-Xylene	Ave	0.5026	0.4810		19.1	20.0	-4.3	30.0
o-Xylene	Ave	0.5107	0.4908		9.61	10.0	-3.9	30.0
Styrene	Ave	0.6645	0.6775		10.2	10.0	2.0	30.0
Bromoform	Ave	0.7321	0.7945		10.8	10.0	8.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7638	0.7807		10.2	10.0	2.2	30.0
2-Chlorotoluene	Ave	1.040	1.105		10.6	10.0	6.3	30.0
4-Ethyltoluene	Ave	1.207	1.316		10.9	10.0	9.0	30.0
1,3,5-Trimethylbenzene	Ave	1.170	1.164		9.95	10.0	-0.5	30.0
1,2,4-Trimethylbenzene	Ave	1.118	1.154		10.3	10.0	3.2	30.0
1,3-Dichlorobenzene	Ave	0.6808	0.7466		11.0	10.0	9.7	30.0
1,4-Dichlorobenzene	Ave	0.6412	0.6947		10.8	10.0	8.3	30.0
1,2-Dichlorobenzene	Ave	0.6987	0.7431		10.6	10.0	6.4	30.0
1,2,4-Trichlorobenzene	Ave	0.3036	0.3112		10.2	10.0	2.5	30.0
Hexachlorobutadiene	Ave	0.6368	0.6724		10.6	10.0	5.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-18242-1
 SDG No.: 200-18242
 Lab Sample ID: CCVC 200-60708/24 Calibration Date: 09/05/2013 09:41
 Instrument ID: G.i Calib Start Date: 08/19/2013 17:16
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/19/2013 21:59
 Lab File ID: giik24.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	2.150	2.657		12.4	10.0	23.6	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.160	2.576		11.9	10.0	19.3	30.0
Chloromethane	Ave	0.4845	0.5905		12.2	10.0	21.9	30.0
Vinyl chloride	Ave	0.6196	0.7377		11.9	10.0	19.1	30.0
1,3-Butadiene	Ave	0.4182	0.4711		11.3	10.0	12.7	30.0
Bromomethane	Ave	0.7741	0.9427		12.2	10.0	21.8	30.0
Chloroethane	Ave	0.2439	0.2936		12.0	10.0	20.4	30.0
Vinyl bromide	Ave	0.8788	1.012		11.5	10.0	15.2	30.0
Trichlorofluoromethane	Ave	2.602	2.845		10.9	10.0	9.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.644	1.840		11.2	10.0	11.9	30.0
1,1-Dichloroethene	Ave	0.7162	0.7595		10.6	10.0	6.0	30.0
Acetone	Ave	0.8051	1.437		17.8	10.0	78.4*	30.0
Carbon disulfide	Ave	2.064	2.446		11.8	10.0	18.5	30.0
Isopropanol	Ave	0.6184	0.7447		12.0	10.0	20.4	30.0
Allyl chloride	Ave	0.6206	0.6523		10.5	10.0	5.1	30.0
Methylene Chloride	Ave	0.6355	0.7031		11.1	10.0	10.6	30.0
tert-Butyl alcohol	Ave	1.020	1.315		12.9	10.0	28.9	30.0
Methyl tert-butyl ether	Ave	1.884	1.977		10.5	10.0	5.0	30.0
1,2-Dichloroethene, trans-	Ave	0.9888	1.063		10.8	10.0	7.5	30.0
n-Hexane	Ave	0.8981	0.8842		9.84	10.0	-1.6	30.0
1,1-Dichloroethane	Ave	1.344	1.433		10.7	10.0	6.7	30.0
1,2-Dichloroethene, cis-	Ave	1.067	1.017		9.53	10.0	-4.7	30.0
Methyl Ethyl Ketone	Ave	0.4095	0.4047		9.88	10.0	-1.2	30.0
Tetrahydrofuran	Ave	0.1210	0.1515		12.5	10.0	25.1	30.0
Chloroform	Ave	2.402	2.387		9.94	10.0	-0.6	30.0
Cyclohexane	Ave	0.2205	0.2399		10.9	10.0	8.8	30.0
1,1,1-Trichloroethane	Ave	0.4795	0.5346		11.1	10.0	11.5	30.0
Carbon tetrachloride	Ave	0.5803	0.6432		11.1	10.0	10.8	30.0
2,2,4-Trimethylpentane	Ave	0.7937	0.8515		10.7	10.0	7.3	30.0
Benzene	Ave	0.5872	0.6175		10.5	10.0	5.2	30.0
1,2-Dichloroethane	Ave	0.2911	0.3262		11.2	10.0	12.1	30.0
n-Heptane	Ave	0.3176	0.3194		10.1	10.0	0.6	30.0
Trichloroethene	Ave	0.3630	0.3594		9.90	10.0	-1.0	30.0
1,2-Dichloropropane	Ave	0.2717	0.2775		10.2	10.0	2.1	30.0
Methyl methacrylate	Ave	0.2404	0.2490		10.4	10.0	3.6	30.0
1,4-Dioxane	Ave	0.1078	0.1233		11.4	10.0	14.4	30.0
Bromodichloromethane	Ave	0.6194	0.6498		10.5	10.0	4.9	30.0
1,3-Dichloropropene, cis-	Ave	0.4313	0.4468		10.4	10.0	3.6	30.0
Methyl isobutyl ketone	Ave	0.4573	0.5097		11.1	10.0	11.5	30.0
Toluene	Ave	0.6154	0.5901		9.59	10.0	-4.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-18242-1
 SDG No.: 200-18242
 Lab Sample ID: CCVC 200-60708/24 Calibration Date: 09/05/2013 09:41
 Instrument ID: G.i Calib Start Date: 08/19/2013 17:16
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/19/2013 21:59
 Lab File ID: giik24.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropene, trans-	Ave	0.4537	0.4664		10.3	10.0	2.8	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.3261		10.3	10.0	3.4	30.0
Tetrachloroethene	Ave	0.6074	0.5539		9.12	10.0	-8.8	30.0
Dibromochloromethane	Ave	0.7418	0.7894		10.6	10.0	6.4	30.0
1,2-Dibromoethane	Ave	0.6057	0.6140		10.1	10.0	1.4	30.0
Chlorobenzene	Ave	0.8206	0.8191		9.98	10.0	-0.2	30.0
Ethylbenzene	Ave	1.290	1.305		10.1	10.0	1.2	30.0
m-Xylene & p-Xylene	Ave	0.5026	0.5107		20.3	20.0	1.6	30.0
o-Xylene	Ave	0.5107	0.5132		10.0	10.0	0.5	30.0
Styrene	Ave	0.6645	0.6751		10.2	10.0	1.6	30.0
Bromoform	Ave	0.7321	0.8000		10.9	10.0	9.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7638	0.8338		10.9	10.0	9.2	30.0
2-Chlorotoluene	Ave	1.040	1.193		11.5	10.0	14.7	30.0
4-Ethyltoluene	Ave	1.207	1.415		11.7	10.0	17.2	30.0
1,3,5-Trimethylbenzene	Ave	1.170	1.248		10.7	10.0	6.6	30.0
1,2,4-Trimethylbenzene	Ave	1.118	1.236		11.1	10.0	10.6	30.0
1,3-Dichlorobenzene	Ave	0.6808	0.7813		11.5	10.0	14.8	30.0
1,4-Dichlorobenzene	Ave	0.6412	0.7326		11.4	10.0	14.2	30.0
1,2-Dichlorobenzene	Ave	0.6987	0.7831		11.2	10.0	12.1	30.0
1,2,4-Trichlorobenzene	Ave	0.3036	0.3767		12.4	10.0	24.1	30.0
Hexachlorobutadiene	Ave	0.6368	0.7276		11.4	10.0	14.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-18242-1
 SDG No.: 200-18242
 Lab Sample ID: CCVC 200-60708/25 Calibration Date: 09/05/2013 10:28
 Instrument ID: G.i Calib Start Date: 08/19/2013 17:16
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/19/2013 21:59
 Lab File ID: giik25.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	2.150	2.369		11.0	10.0	10.2	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.160	2.255		10.4	10.0	4.4	30.0
Chloromethane	Ave	0.4845	0.5029		10.4	10.0	3.8	30.0
Vinyl chloride	Ave	0.6196	0.6324		10.2	10.0	2.1	30.0
1,3-Butadiene	Ave	0.4182	0.4066		9.72	10.0	-2.8	30.0
Bromomethane	Ave	0.7741	0.8295		10.7	10.0	7.2	30.0
Chloroethane	Ave	0.2439	0.2560		10.5	10.0	5.0	30.0
Vinyl bromide	Ave	0.8788	0.9254		10.5	10.0	5.3	30.0
Trichlorofluoromethane	Ave	2.602	2.671		10.3	10.0	2.7	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.644	1.708		10.4	10.0	3.9	30.0
1,1-Dichloroethene	Ave	0.7162	0.6935		9.68	10.0	-3.2	30.0
Acetone	Ave	0.8051	1.291		16.0	10.0	60.4*	30.0
Carbon disulfide	Ave	2.064	2.238		10.8	10.0	8.4	30.0
Isopropanol	Ave	0.6184	0.6404		10.4	10.0	3.6	30.0
Allyl chloride	Ave	0.6206	0.5794		9.34	10.0	-6.6	30.0
Methylene Chloride	Ave	0.6355	0.6400		10.1	10.0	0.7	30.0
tert-Butyl alcohol	Ave	1.020	1.181		11.6	10.0	15.7	30.0
Methyl tert-butyl ether	Ave	1.884	1.841		9.77	10.0	-2.3	30.0
1,2-Dichloroethene, trans-	Ave	0.9888	0.9735		9.84	10.0	-1.5	30.0
n-Hexane	Ave	0.8981	0.8116		9.03	10.0	-9.6	30.0
1,1-Dichloroethane	Ave	1.344	1.312		9.76	10.0	-2.3	30.0
1,2-Dichloroethene, cis-	Ave	1.067	0.9822		9.21	10.0	-7.9	30.0
Methyl Ethyl Ketone	Ave	0.4095	0.3834		9.36	10.0	-6.4	30.0
Tetrahydrofuran	Ave	0.1210	0.1312		10.8	10.0	8.4	30.0
Chloroform	Ave	2.402	2.276		9.47	10.0	-5.2	30.0
Cyclohexane	Ave	0.2205	0.2236		10.1	10.0	1.4	30.0
1,1,1-Trichloroethane	Ave	0.4795	0.5049		10.5	10.0	5.3	30.0
Carbon tetrachloride	Ave	0.5803	0.6143		10.6	10.0	5.9	30.0
2,2,4-Trimethylpentane	Ave	0.7937	0.7662		9.65	10.0	-3.5	30.0
Benzene	Ave	0.5872	0.5726		9.75	10.0	-2.5	30.0
1,2-Dichloroethane	Ave	0.2911	0.2981		10.2	10.0	2.4	30.0
n-Heptane	Ave	0.3176	0.2814		8.86	10.0	-11.4	30.0
Trichloroethene	Ave	0.3630	0.3499		9.64	10.0	-3.6	30.0
1,2-Dichloropropane	Ave	0.2717	0.2568		9.45	10.0	-5.5	30.0
Methyl methacrylate	Ave	0.2404	0.2363		9.83	10.0	-1.7	30.0
1,4-Dioxane	Ave	0.1078	0.1170		10.9	10.0	8.5	30.0
Bromodichloromethane	Ave	0.6194	0.6206		10.0	10.0	0.2	30.0
1,3-Dichloropropene, cis-	Ave	0.4313	0.4263		9.88	10.0	-1.1	30.0
Methyl isobutyl ketone	Ave	0.4573	0.4535		9.91	10.0	-0.8	30.0
Toluene	Ave	0.6154	0.5682		9.23	10.0	-7.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-18242-1
 SDG No.: 200-18242
 Lab Sample ID: CCVC 200-60708/25 Calibration Date: 09/05/2013 10:28
 Instrument ID: G.i Calib Start Date: 08/19/2013 17:16
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/19/2013 21:59
 Lab File ID: giik25.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropene, trans-	Ave	0.4537	0.4454		9.82	10.0	-1.8	30.0
1,1,2-Trichloroethane	Ave	0.3155	0.3042		9.64	10.0	-3.6	30.0
Tetrachloroethene	Ave	0.6074	0.5823		9.58	10.0	-4.1	30.0
Dibromochloromethane	Ave	0.7418	0.7746		10.4	10.0	4.4	30.0
1,2-Dibromoethane	Ave	0.6057	0.6020		9.94	10.0	-0.6	30.0
Chlorobenzene	Ave	0.8206	0.8103		9.87	10.0	-1.3	30.0
Ethylbenzene	Ave	1.290	1.254		9.72	10.0	-2.8	30.0
m-Xylene & p-Xylene	Ave	0.5026	0.4929		19.6	20.0	-1.9	30.0
o-Xylene	Ave	0.5107	0.5019		9.82	10.0	-1.7	30.0
Styrene	Ave	0.6645	0.6558		9.87	10.0	-1.3	30.0
Bromoform	Ave	0.7321	0.8035		11.0	10.0	9.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7638	0.7767		10.2	10.0	1.7	30.0
2-Chlorotoluene	Ave	1.040	1.099		10.6	10.0	5.6	30.0
4-Ethyltoluene	Ave	1.207	1.331		11.0	10.0	10.2	30.0
1,3,5-Trimethylbenzene	Ave	1.170	1.195		10.2	10.0	2.2	30.0
1,2,4-Trimethylbenzene	Ave	1.118	1.180		10.5	10.0	5.5	30.0
1,3-Dichlorobenzene	Ave	0.6808	0.7646		11.2	10.0	12.3	30.0
1,4-Dichlorobenzene	Ave	0.6412	0.7171		11.2	10.0	11.8	30.0
1,2-Dichlorobenzene	Ave	0.6987	0.7588		10.9	10.0	8.6	30.0
1,2,4-Trichlorobenzene	Ave	0.3036	0.3880		12.8	10.0	27.8	30.0
Hexachlorobutadiene	Ave	0.6368	0.6964		10.9	10.0	9.4	30.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-18242-1
 SDG No.: 200-18242
 Client Sample ID: _____ Lab Sample ID: MB 200-60708/3
 Matrix: Air Lab File ID: giik03.d
 Analysis Method: TO15LL/NJ Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 09/04/2013 12:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 60708 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.20	U	0.20	0.0091
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.086
156-60-5	1,2-Dichloroethene, trans-	0.20	U	0.20	0.023
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.023
156-59-2	1,2-Dichloroethene, cis-	0.20	U	0.20	0.084
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.020
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.013
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.018
79-01-6	Trichloroethene	0.20	U	0.20	0.0092
127-18-4	Tetrachloroethene	0.20	U	0.20	0.015

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-18242-1
 SDG No.: 200-18242
 Client Sample ID: _____ Lab Sample ID: LCS 200-60708/7
 Matrix: Air Lab File ID: giik07.d
 Analysis Method: TO15LL/NJ Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 09/04/2013 16:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 60708 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.208		0.20	0.0091
75-35-4	1,1-Dichloroethene	0.233		0.20	0.086
156-60-5	1,2-Dichloroethene, trans-	0.206		0.20	0.023
75-34-3	1,1-Dichloroethane	0.190	J	0.20	0.023
156-59-2	1,2-Dichloroethene, cis-	0.217		0.20	0.084
71-55-6	1,1,1-Trichloroethane	0.228		0.20	0.020
56-23-5	Carbon tetrachloride	0.211		0.20	0.013
107-06-2	1,2-Dichloroethane	0.210		0.20	0.018
79-01-6	Trichloroethene	0.203		0.20	0.0092
127-18-4	Tetrachloroethene	0.197	J	0.20	0.015

GC/MS Air Instrument Run Log

Sequence	Standard Traceability	Instrument Information
Target Batch ID: GII	Start Date: 8/19/13 Time: 14:11	Instrument ID: G
Test Method: TOIS	ISTD Container ID: 248062	Instrument: 5973
ICAL Date: 8/19/13	CCV Container ID: 5319 see comments	Column Type: RTX-624
Analyst / Supervisor Signature(s): <i>Insert signature when specified as project requirement. Otherwise leave this section blank.</i>		

Paul D. Sigler
Paul D. Sigler
PAD

Sequence Information					Individual Sample Review						
Injection Time	GC/MS File Name	Summa Can ID	TALS Sample ID	Dilution Factor	Inlet #	Volume (ml)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments
1411	GII 01	N/A	BFB	N/A	1	200	PAD	N/A	✓	PAD	
1455	02	4096	VIBLK		1	200		✓	✓		
1542	03	5459	VIBLK		2	40		✓	✓		
1629	04	5459	IC-08		2	200		✓	✓		#534112
1726	05	5464	IC-01		3	200		✓	✓		#534112
1803	06	5464	IC-02		4	200		✓	✓		#535709
1850	07	2646	IC-03		5	200		✓	✓		#531972
1937	08	4308	ICIS-04		6	200		✓	✓		#545083
2024	09	3755	IC-05		7	200		✓	✓		#531964
2111	10	2874	IC-06		8	200		✓	✓		#531963
2159	11	3413	IC-07		1	200		✓	✓		#531949
2246	12	4096	VIBLK		1	200		✓	✓		
2333	13	3646	VIBLK		14	200		✓	✓		#545084
0020	14	3646	ICV		1	200		✓	✓		
0107	15	4096	VIBLK		14	200		✓	✓		#545084
0154	16	3646	LCS		1	200		✓	✓		
0241	17	4096	VIBLK		1	200		✓	✓		
PAD 8/20/13											

Legend: C=Complete • R=Reanalyze • ↑ = High • ↓ = Low • ✓ = Reviewed and Acceptable

GC/MS Air Instrument Run Log

Sequence	Standard Traceability	Instrument Information
Target Batch ID: 6-TIK	ISTD Container ID: 248062	Instrument ID: G
Test Method: NJ-CC	CCV Container ID: 545083	Instrument: 5973
ICAL Date: 8/19/13	ICV/LCS Container ID: See comments	Column Type: RTX-624

Analyst / Supervisor Signature(s): Insert signature when specified as project requirement. Otherwise leave this section blank.

RYAN HARMON
 Paul D. Sigle
 William Pasquale
 PAD
 WMD

Injection Time	GC/MS File Name	Summa Can ID	TALS Sample ID	Dilution Factor	Inlet #	Volume (mL)	Operator	Individual Sample Review			Comments
								Internal Std.	Result Conc.	Primary Anal.	
1112	GIK 01	N/A	BFB	N/A	1	200	PAD	N/A	✓	PAD	AG
1200	02	4308	CCVIS	1/10/5	2	200		✓	✓		R
1252	03	4096	MB		3			✓	↑		1714 535109
1339	04	5459	0.2RLCCS		4			✓	✓		AG 531972
1426	05	5464	0.5RLCCS		5			✓	✓		AG 532188
1513	06	2640	5.0RLCCS		6	200		✓	✓		
1600	07	2461	0.2RLCCS	N/A	7	500		✓	✓		
1711	08	4265	18258-1	2 0.4	8	200		✓	✓		
1758	09	4841	18227-6	1	9	200		✓	✓		
1845	10	3589	18242-1	10	10	20		✓	✓		
1932	11	3647	-2	1	11	200		✓	✓		
2019	12	4370	18156-1	10	12	20		✓	✓		
2106	13	3259	-2		13			✓	✓		
2153	14	5162	-3		14			✓	✓		
2240	15	4663	18239-4	10	15	85		✓	✓		
2327	16		-4	23-1	16	37		✓	✓		
0014	17	4959	-5	10	17	20		✓	✓		
0101	18		-5	13.3	18	15		✓	✓		
0149	19	3201	1	1.31	19	200		✓	✓		
0236	20	4443	2	1.55	20	200		✓	✓		
0323	21	3307	3	1	21	200		✓	✓		
0741	22	3201	1	13.1	22	20		✓	✓		
0828	23	4443	2	15.5	23	20		✓	✓		
0941	24	5452	CCVC	N/A	24	200		✓	✓		
1028	25		CCVC		25	200		✓	✓		

PAD 9/5/13

Legend: C=Complete • R=Reanalyze • ↑ = High • ↓ = Low • ✓ = Reviewed and Acceptable

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-18242-1

SDG No.: 200-18242

Instrument ID: G.i Start Date: 09/04/2013 11:12

Analysis Batch Number: 60708 End Date: 09/05/2013 10:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-60708/1		09/04/2013 11:12	1	giik01.d	RTX-624 0.32 (mm)
CCVIS 200-60708/2		09/04/2013 12:00	1	giik02.d	RTX-624 0.32 (mm)
MB 200-60708/3		09/04/2013 12:52	1	giik03.d	RTX-624 0.32 (mm)
ZZZZZ		09/04/2013 13:39	1		RTX-624 0.32 (mm)
LCS 200-60708/5		09/04/2013 14:26	1	giik05.d	RTX-624 0.32 (mm)
LCS 200-60708/6		09/04/2013 15:13	1	giik06.d	RTX-624 0.32 (mm)
LCS 200-60708/7		09/04/2013 16:00	1	giik07.d	RTX-624 0.32 (mm)
ZZZZZ		09/04/2013 17:11	0.4		RTX-624 0.32 (mm)
ZZZZZ		09/04/2013 17:58	1		RTX-624 0.32 (mm)
200-18242-1	SG-082913-SGP-01	09/04/2013 18:45	10	giik10.d	RTX-624 0.32 (mm)
200-18242-2	AA-082913-SGP-01	09/04/2013 19:32	1	giik11.d	RTX-624 0.32 (mm)
ZZZZZ		09/04/2013 20:19	10		RTX-624 0.32 (mm)
ZZZZZ		09/04/2013 21:06	10		RTX-624 0.32 (mm)
ZZZZZ		09/04/2013 21:53	10		RTX-624 0.32 (mm)
ZZZZZ		09/04/2013 22:40	10		RTX-624 0.32 (mm)
ZZZZZ		09/04/2013 23:27	23.1		RTX-624 0.32 (mm)
ZZZZZ		09/05/2013 00:14	10		RTX-624 0.32 (mm)
ZZZZZ		09/05/2013 01:01	13.3		RTX-624 0.32 (mm)
CCVC 200-60708/24		09/05/2013 09:41	1	giik24.d	RTX-624 0.32 (mm)
CCVC 200-60708/25		09/05/2013 10:28	1	giik25.d	RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-18242-1

SDG No.: 200-18242

Instrument ID: G.i Start Date: 08/19/2013 14:11

Analysis Batch Number: 60710 End Date: 08/20/2013 02:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-60710/1		08/19/2013 14:11	1	gii01.d	RTX-624 0.32 (mm)
VIBLK 200-60710/2		08/19/2013 14:55	1		RTX-624 0.32 (mm)
VIBLK 200-60710/3		08/19/2013 15:42	1		RTX-624 0.32 (mm)
ZZZZZ		08/19/2013 16:29	1		RTX-624 0.32 (mm)
IC 200-60710/5		08/19/2013 17:16	1	gii05.d	RTX-624 0.32 (mm)
IC 200-60710/6		08/19/2013 18:03	1	gii06.d	RTX-624 0.32 (mm)
IC 200-60710/7		08/19/2013 18:50	1	gii07.d	RTX-624 0.32 (mm)
ICIS 200-60710/8		08/19/2013 19:37	1	gii08.d	RTX-624 0.32 (mm)
IC 200-60710/9		08/19/2013 20:24	1	gii09.d	RTX-624 0.32 (mm)
IC 200-60710/10		08/19/2013 21:11	1	gii10.d	RTX-624 0.32 (mm)
IC 200-60710/11		08/19/2013 21:59	1	gii11.d	RTX-624 0.32 (mm)
VIBLK 200-60710/12		08/19/2013 22:46	1		RTX-624 0.32 (mm)
VIBLK 200-60710/13		08/19/2013 23:33	1		RTX-624 0.32 (mm)
ICV 200-60710/14		08/20/2013 00:20	1	gii14.d	RTX-624 0.32 (mm)
VIBLK 200-60710/15		08/20/2013 01:07	1		RTX-624 0.32 (mm)
ZZZZZ		08/20/2013 01:54	1		RTX-624 0.32 (mm)
VIBLK 200-60710/17		08/20/2013 02:41	1		RTX-624 0.32 (mm)

Post-Sampling Air Canister Pressure Check Record

Client ID	TALS Job	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst
URS	200-10242	9/3/13	1530	29.4	22	68	BL

Sampling Information and Return Equipment Check	Yes	No	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	✓		
(2) Is the flow controller ID used for each canister recorded?	✓		
(3) MA MCP: Check return flow rate for flow controllers		✓	
(4) Is visible sign of damage to canister and/or flow controller (FC) present?		✓	
If damage observed, list equipment IDs and describe condition:			

Post-Sampling Return Pressure Check							
Lab ID	Canister ID	Pressure ¹ ("Hg)	Anomaly ² (Y/N)	FC ID ³	FC Return (Y/N)	Can Cert Batch ID	Comments
18242-1	3589	-2.6	N	7085	Y	3688 CLTK	
2-2	3647	-2.6	N	767	Y	3688 CLTK	
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<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(2880deg); opacity: 0.5;"></div>							
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(-2880deg); opacity: 0.5;"></div>							
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(2970deg); opacity: 0.5;"></div>							
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(-2970deg); opacity: 0.5;"></div>							
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(3060deg); opacity: 0.5;"></div>							
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(-3060deg); opacity: 0.5;"></div>							
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(3150deg); opacity: 0.5;"></div>							
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(-3150deg); opacity: 0.5;"></div>							
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(3240deg); opacity: 0.5;"></div>							
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<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(3330deg); opacity: 0.5;"></div>							
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(-3330deg); opacity: 0.5;"></div>							
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(3420deg); opacity: 0.5;"></div>							
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(-3420deg); opacity: 0.5;"></div>							
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(3510deg); opacity: 0.5;"></div>							
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(-3510deg); opacity: 0.5;"></div>							
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(3600deg); opacity: 0.5;"></div>							
<div style="border: 1px solid black; width: 100%; height: 100%; transform: rotate(-3600deg); opacity: 0.5;"></div>							

¹ Criteria: Return Pressure should be between -1 and -10 ("Hg)
² If return pressure is not within criteria, initiate anomaly report.
³ Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

Internal Use Only: Flow Controller Date and Page # _____

ANALYTICAL REPORT

Job Number: 200-18629-1

Job Description: EISB Monitoring

For:

URS Corporation

C/O Dupont

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark, DE 19713

Attention: Ms. Candia Carle



Approved for release.
Don C Dawicki
Customer Service Manager
10/23/2013 8:40 AM

Don C Dawicki, Customer Service Manager
30 Community Drive, South Burlington, VT, 05403
(802)660-1990
don.dawicki@testamericainc.com
10/23/2013

cc: Ms. Norma Eichlin

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

TestAmerica Laboratories, Inc.

TestAmerica Burlington 30 Community Drive, Suite 11, South Burlington, VT 05403

Tel (802) 660-1990 Fax (802) 660-1919 www.testamericainc.com



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**ANALYTICAL DATA PACKAGE FOR THE
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NEW JERSEY 08625**

Agency/Division:	NA	Bureau/Office:	NA
Project No:	NA	Contract No.:	NA
Laboratory Name:	TestAmerica Laboratories	Laboratory Location:	South Burlington, Vermont
SDG or Batch No.:		NJDEP Certification No.:	VT972
Date of First Sample Receipt:	09/26/2013	Date of Last Sample Receipt:	09/26/2013

Agency Sample Number	Laboratory Sample Number	Sample Location	Date and Time of Collection
AA-092513-SGP-01	200-18629-2	AA-092513-SGP-01	09/25/2013 14:17
SG-092513-SGP-01	200-18629-1	SG-092513-SGP-01	09/25/2013 14:17

I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and in the computer-readable data submitted on disk or electronically has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Laboratory Manager (Typed):	Kirstin Daigle	Date:
Laboratory Manager (Signature):		
Quality Assurance Manager (Typed):	Sara Goff	Date:
Quality Assurance Manager (Signature):		

Air Methods – External Chain of Custody Record/Field Test Data Sheet
New Jersey Department of Environmental Protection

Laboratory Name: TestAmerica
Address: 30 Community Dr. Suite 11
 South Burlington, VT 05403
Phone: 802-660-1990
FAX: 802-660-1919

Name: VerPham ERIC GAGNE
Title: Sample Custodian
Laboratory Affixed Seal Number: 5325
Time/Date Sample Shipping Container Sealed: 1500 9/23/13

Project Number: A7649490 **Bureau:** BH494A
Sampler's Name: A7649490 **Phone Number:** 973-492-3335 **Division:** A72239
Contract Number: A72239 **Turnaround Time:** 48 hours 7 days 14 days

Sample Identification	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure In Field ("Hg) (Start)	Canister Pressure In Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Outgoing Canister Pressure ("Hg) (Lab)	Incoming Canister Pressure ("Hg) (Lab)	Flow ID	Flow Controller Readout (ml/min)	Can Size (L)	Can ID	Can Cert ID	Matrix
SG-092513-SOP-1	9/25/13	1412	1417	28.71	3.59	72.1	73.1	-29.6	4979	4957016L		4260	4957016L	BLCA	X
AA-092513-SOP-2	9/25/13	1412	1417	27.26	3.22	72.1	73.1	L	9697	487721L		4260	487721L	KIK	X
													44954	d	

Barometric Pressure
 Start _____ Stop _____

Comments

GC/MS Analyst Signature (NJDEP LL-10-1525C): _____
GC Analyst Signature (3C): _____

External Chain of Custody

Relinquished
 XXXXXXXXXXXXXXXXXXXX
VerPham
 Received
M. Brzal
 FedEx
 Steph Penhale

Time/Date
 1330 9/24/13
 1730 9/25/13
 9/26/13 10:25

Reason for Change of External Custody
 Break Seal/Sample
 Sampler/Sender
 1025 Redat 1ch Track #74676908/10/14

Individual Resealing Shipping Container Name: M. Brzal M.3.25.26K
Time/Date Sample Shipping Container Resealed: 9/26/13 10:25
Time/Date Sample Shipping Container Opened: 9/26/13 15:58
Time/Date Internal Chain of Custody Initiated on NJDEP Form 077 (Internal Chain of Custody): _____

Title: _____
NJDEP Affixed Seal Number: _____
Individual Opening Sample Shipping Container: Steph Penhale

Distribution:
 White – Original (Sent With Report)
 Pink – NJDEP Field Sampling Personnel
 Yellow – Sampling Custodian Upon Receipt of Shipping Container from Field
 Gold – Sample Custodian for Sample Preparation and Shipment

From: (973) 492-7729
David Epps

2000 Cannonball Road

Pompton Lakes, NJ 07442

Origin ID: GMVA



Ship Date: 25SEP13
ActWgt 10.0 LB
CAD: 102577111/NET3430

Delivery Address Bar Code



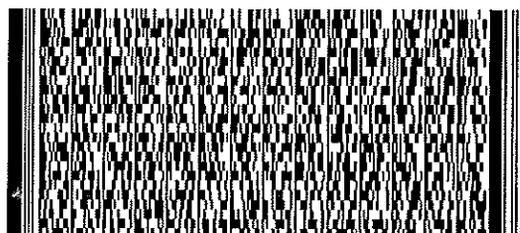
SHIP TO: (802) 660-1990
Sample Receiving
Test America
30 Community Drive
Suite 11
South Burlington, VT 05403

BILL THIRD PARTY

Ref #
Invoice #
PO #
Dept #

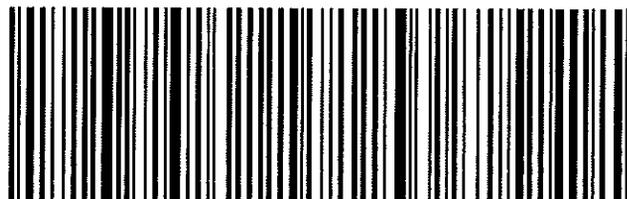
THU - 26 SEP AA
STANDARD OVERNIGHT

TRK# 7967 6908 1619
0201



EK BTVA

05403
VT-US
BTV



51AG1A2SR1A0E

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 200-18629-1

Login Number: 18629
List Number: 1
Creator: Marion, Greg T

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	no seal numbers
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	ambient
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATT15LLCAL4w_00085	12/05/13	07/19/13		15.463 L	ATTO15CAL6w_00076	155 mL	1,1,1-Trichloroethane	0.20044 ppb v/v
							1,1,2,2-Tetrachloroethane	0.20044 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.20044 ppb v/v
							1,1,2-Trichloroethane	0.20044 ppb v/v
							1,1-Dichloroethane	0.20044 ppb v/v
							1,1-Dichloroethene	0.20044 ppb v/v
							1,2,4-Trimethylbenzene	0.20044 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20044 ppb v/v
							1,2-Dichlorobenzene	0.20044 ppb v/v
							1,2-Dichloroethane	0.20044 ppb v/v
							1,2-Dichloroethene, cis-	0.20044 ppb v/v
							1,2-Dichloroethene, trans-	0.20044 ppb v/v
							1,2-Dichloropropane	0.20044 ppb v/v
							1,3,5-Trimethylbenzene	0.20044 ppb v/v
							1,3-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dichlorobenzene	0.20044 ppb v/v
							2-Chlorotoluene	0.20044 ppb v/v
							3-Chloro-1-propene	0.20044 ppb v/v
							4-Ethyltoluene	0.20044 ppb v/v
							Benzene	0.20044 ppb v/v
Bromoform	0.20044 ppb v/v							
Bromomethane	0.20044 ppb v/v							
Butadiene	0.20044 ppb v/v							
Carbon tetrachloride	0.20044 ppb v/v							
Chlorobenzene	0.20044 ppb v/v							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorodibromomethane	0.20044 ppb v/v
							Chloroform	0.20044 ppb v/v
							cis-1,3-Dichloropropene	0.20044 ppb v/v
							Cyclohexane	0.20044 ppb v/v
							Dichlorobromomethane	0.20044 ppb v/v
							Ethylbenzene	0.20044 ppb v/v
							Ethylene Dibromide	0.20044 ppb v/v
							Hexachlorobutadiene	0.20044 ppb v/v
							Hexane	0.20044 ppb v/v
							Isooctane	0.20044 ppb v/v
							m-Xylene & p-Xylene	0.400879 ppb v/v
							Methyl tert-butyl ether	0.20044 ppb v/v
							n-Heptane	0.20044 ppb v/v
							o-Xylene	0.20044 ppb v/v
							Styrene	0.20044 ppb v/v
							Tetrachloroethene	0.20044 ppb v/v
							Toluene	0.20044 ppb v/v
							trans-1,3-Dichloropropene	0.20044 ppb v/v
							Trichloroethene	0.20044 ppb v/v
							Trichlorofluoromethane	0.20044 ppb v/v
							Vinyl bromide	0.20044 ppb v/v
							Vinyl chloride	0.20044 ppb v/v
.ATTO15CAL6w_00076	12/05/13	09/09/13	DI WATER, Lot 2575	15.463 L	ATTO15CALSTKi_00047	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
..ATTO15CALSTKi_00047	12/05/13	09/05/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroform	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
...ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroform	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL2w_00101	12/05/13	09/09/13	DI WATER, Lot 5432	15.463 L	ATTO15CAL6w_00076	387 mL	1,1,1-Trichloroethane	0.500453 ppb v/v
							1,1,2,2-Tetrachloroethane	0.500453 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.500453 ppb v/v
							1,1,2-Trichloroethane	0.500453 ppb v/v
							1,1-Dichloroethane	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	0.500453 ppb v/v
							1,2,4-Trichlorobenzene	0.500453 ppb v/v
							1,2,4-Trimethylbenzene	0.500453 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.500453 ppb v/v
							1,2-Dichlorobenzene	0.500453 ppb v/v
							1,2-Dichloroethane	0.500453 ppb v/v
							1,2-Dichloroethene, cis-	0.500453 ppb v/v
							1,2-Dichloroethene, trans-	0.500453 ppb v/v
							1,2-Dichloropropane	0.500453 ppb v/v
							1,3,5-Trimethylbenzene	0.500453 ppb v/v
							1,3-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dichlorobenzene	0.500453 ppb v/v
							2-Butanone (MEK)	0.500453 ppb v/v
							2-Chlorotoluene	0.500453 ppb v/v
							3-Chloro-1-propene	0.500453 ppb v/v
							4-Ethyltoluene	0.500453 ppb v/v
							4-Methyl-2-pentanone (MIBK)	0.500453 ppb v/v
							Benzene	0.500453 ppb v/v
							Bromoform	0.500453 ppb v/v
							Bromomethane	0.500453 ppb v/v
							Butadiene	0.500453 ppb v/v
							Carbon disulfide	0.500453 ppb v/v
							Carbon tetrachloride	0.500453 ppb v/v
							Chlorobenzene	0.500453 ppb v/v
							Chlorodibromomethane	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	0.500453 ppb v/v
							Chloroform	0.500453 ppb v/v
							Chloromethane	0.500453 ppb v/v
							cis-1,3-Dichloropropene	0.500453 ppb v/v
							Cyclohexane	0.500453 ppb v/v
							Dichlorobromomethane	0.500453 ppb v/v
							Dichlorodifluoromethane	0.500453 ppb v/v
							Ethylbenzene	0.500453 ppb v/v
							Ethylene Dibromide	0.500453 ppb v/v
							Hexachlorobutadiene	0.500453 ppb v/v
							Hexane	0.500453 ppb v/v
							Isooctane	0.500453 ppb v/v
							m-Xylene & p-Xylene	1.00091 ppb v/v
							Methyl methacrylate	0.500453 ppb v/v
							Methyl tert-butyl ether	0.500453 ppb v/v
							Methylene Chloride	0.500453 ppb v/v
							n-Heptane	0.500453 ppb v/v
							o-Xylene	0.500453 ppb v/v
							Styrene	0.500453 ppb v/v
							Tetrachloroethene	0.500453 ppb v/v
							Toluene	0.500453 ppb v/v
							trans-1,3-Dichloropropene	0.500453 ppb v/v
							Trichloroethene	0.500453 ppb v/v
							Trichlorofluoromethane	0.500453 ppb v/v
							Vinyl bromide	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	0.500453 ppb v/v
.ATTO15CAL6w_00076	12/05/13	09/09/13	DI WATER, Lot 2575	15.463 L	ATTO15CALSTKi_00047	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
..ATTO15CALSTKi_00047	12/05/13	09/05/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
...ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Benzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL3w_00114	12/05/13	09/09/13	DI WATER, Lot 5015	15.463 L	ATTO15CALSTKi_00047	386 mL	1,1,1-Trichloroethane	4.99256 ppb v/v
							1,1,2,2-Tetrachloroethane	4.99256 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	4.99256 ppb v/v
							1,1,2-Trichloroethane	4.99256 ppb v/v
							1,1-Dichloroethane	4.99256 ppb v/v
							1,1-Dichloroethene	4.99256 ppb v/v
							1,2,4-Trichlorobenzene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	4.99256 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	4.99256 ppb v/v
							1,2-Dichlorobenzene	4.99256 ppb v/v
							1,2-Dichloroethane	4.99256 ppb v/v
							1,2-Dichloroethene, cis-	4.99256 ppb v/v
							1,2-Dichloroethene, trans-	4.99256 ppb v/v
							1,2-Dichloropropane	4.99256 ppb v/v
							1,3,5-Trimethylbenzene	4.99256 ppb v/v
							1,3-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dioxane	4.99256 ppb v/v
							2-Butanone (MEK)	4.99256 ppb v/v
							2-Chlorotoluene	4.99256 ppb v/v
							2-Methyl-2-propanol	4.99256 ppb v/v
							3-Chloro-1-propene	4.99256 ppb v/v
							4-Ethyltoluene	4.99256 ppb v/v
							4-Methyl-2-pentanone (MIBK)	4.99256 ppb v/v
							Acetone	4.99256 ppb v/v
							Benzene	4.99256 ppb v/v
							Bromoform	4.99256 ppb v/v
							Bromomethane	4.99256 ppb v/v
							Butadiene	4.99256 ppb v/v
							Carbon disulfide	4.99256 ppb v/v
							Carbon tetrachloride	4.99256 ppb v/v
							Chlorobenzene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorodibromomethane	4.99256 ppb v/v
							Chloroethane	4.99256 ppb v/v
							Chloroform	4.99256 ppb v/v
							Chloromethane	4.99256 ppb v/v
							cis-1,3-Dichloropropene	4.99256 ppb v/v
							Cyclohexane	4.99256 ppb v/v
							Dichlorobromomethane	4.99256 ppb v/v
							Dichlorodifluoromethane	4.99256 ppb v/v
							Ethylbenzene	4.99256 ppb v/v
							Ethylene Dibromide	4.99256 ppb v/v
							Hexachlorobutadiene	4.99256 ppb v/v
							Hexane	4.99256 ppb v/v
							Isooctane	4.99256 ppb v/v
							Isopropyl alcohol	4.99256 ppb v/v
							m-Xylene & p-Xylene	9.98513 ppb v/v
							Methyl methacrylate	4.99256 ppb v/v
							Methyl tert-butyl ether	4.99256 ppb v/v
							Methylene Chloride	4.99256 ppb v/v
							n-Heptane	4.99256 ppb v/v
							o-Xylene	4.99256 ppb v/v
							Styrene	4.99256 ppb v/v
							Tetrachloroethene	4.99256 ppb v/v
							Tetrahydrofuran	4.99256 ppb v/v
							Toluene	4.99256 ppb v/v
							trans-1,3-Dichloropropene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	4.99256 ppb v/v
							Trichlorofluoromethane	4.99256 ppb v/v
							Vinyl bromide	4.99256 ppb v/v
							Vinyl chloride	4.99256 ppb v/v
.ATTO15CALSTKi_00047	12/05/13	09/05/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL4w_00299	12/05/13	09/09/13	DI WATER, Lot 5437	15.463 L	ATTO15CALSTKi_00047	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, cis-	9.99806 ppb v/v
							1,2-Dichloroethene, trans-	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2-Butanone (MEK)	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v
							2-Methyl-2-propanol	9.99806 ppb v/v
							3-Chloro-1-propene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							4-Methyl-2-pentanone (MIBK)	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Butadiene	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chlorodibromomethane	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dichlorobromomethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Ethylene Dibromide	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Hexane	9.99806 ppb v/v
							Isooctane	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m-Xylene & p-Xylene	19.9961 ppb v/v
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							o-Xylene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl bromide	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
.ATTO15CALSTKi_00047	12/05/13	09/05/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL5w_00037	10/16/13	04/10/13	DI WATER, Lot 3155	15.463 L	ATTO15CALSTKi_00044	1160 mL	1,1,1-Trichloroethane	15.0036 ppb v/v
							1,1,2,2-Tetrachloroethane	15.0036 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	15.0036 ppb v/v
							1,1-Dichloroethane	15.0036 ppb v/v
							1,1-Dichloroethene	15.0036 ppb v/v
							1,2,4-Trichlorobenzene	15.0036 ppb v/v
							1,2,4-Trimethylbenzene	15.0036 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	15.0036 ppb v/v
							1,2-Dichlorobenzene	15.0036 ppb v/v
							1,2-Dichloroethane	15.0036 ppb v/v
							1,2-Dichloroethene, cis-	15.0036 ppb v/v
							1,2-Dichloroethene, trans-	15.0036 ppb v/v
							1,2-Dichloropropane	15.0036 ppb v/v
							1,3,5-Trimethylbenzene	15.0036 ppb v/v
							1,3-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dioxane	15.0036 ppb v/v
							2-Butanone (MEK)	15.0036 ppb v/v
							2-Chlorotoluene	15.0036 ppb v/v
							2-Methyl-2-propanol	15.0036 ppb v/v
							3-Chloro-1-propene	15.0036 ppb v/v
							4-Ethyltoluene	15.0036 ppb v/v
							4-Methyl-2-pentanone (MIBK)	15.0036 ppb v/v
							Acetone	15.0036 ppb v/v
							Benzene	15.0036 ppb v/v
							Bromoform	15.0036 ppb v/v
							Bromomethane	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butadiene	15.0036 ppb v/v
							Carbon disulfide	15.0036 ppb v/v
							Carbon tetrachloride	15.0036 ppb v/v
							Chlorobenzene	15.0036 ppb v/v
							Chlorodibromomethane	15.0036 ppb v/v
							Chloroethane	15.0036 ppb v/v
							Chloroform	15.0036 ppb v/v
							Chloromethane	15.0036 ppb v/v
							cis-1,3-Dichloropropene	15.0036 ppb v/v
							Cyclohexane	15.0036 ppb v/v
							Dichlorobromomethane	15.0036 ppb v/v
							Dichlorodifluoromethane	15.0036 ppb v/v
							Ethylbenzene	15.0036 ppb v/v
							Ethylene Dibromide	15.0036 ppb v/v
							Hexachlorobutadiene	15.0036 ppb v/v
							Hexane	15.0036 ppb v/v
							Isooctane	15.0036 ppb v/v
							Isopropyl alcohol	15.0036 ppb v/v
							m-Xylene & p-Xylene	30.0071 ppb v/v
							Methyl methacrylate	15.0036 ppb v/v
							Methyl tert-butyl ether	15.0036 ppb v/v
							Methylene Chloride	15.0036 ppb v/v
							n-Heptane	15.0036 ppb v/v
							o-Xylene	15.0036 ppb v/v
							Styrene	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	15.0036 ppb v/v
							Tetrahydrofuran	15.0036 ppb v/v
							Toluene	15.0036 ppb v/v
							trans-1,3-Dichloropropene	15.0036 ppb v/v
							Trichloroethene	15.0036 ppb v/v
							Trichlorofluoromethane	15.0036 ppb v/v
							Vinyl bromide	15.0036 ppb v/v
							Vinyl chloride	15.0036 ppb v/v
.ATTO15CALSTKi_00044	10/16/13	07/16/13	DI WATER, Lot 1014	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL6w_00076	12/05/13	09/09/13	DI WATER, Lot 2575	15.463 L	ATTO15CALSTKi_00047	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
.ATTO15CALSTKi_00047	12/05/13	09/05/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	1 ppm v/v
ATTO15CAL7w_00041	12/05/13	09/09/13	DI WATER, Lot 5406	15.463 L	ATTO15CALSTKi_00047	3092 mL	1,1,1-Trichloroethane	39.9922 ppb v/v
							1,1,2,2-Tetrachloroethane	39.9922 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	39.9922 ppb v/v
							1,1,2-Trichloroethane	39.9922 ppb v/v
							1,1-Dichloroethane	39.9922 ppb v/v
							1,1-Dichloroethene	39.9922 ppb v/v
							1,2,4-Trichlorobenzene	39.9922 ppb v/v
							1,2,4-Trimethylbenzene	39.9922 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	39.9922 ppb v/v
							1,2-Dichlorobenzene	39.9922 ppb v/v
							1,2-Dichloroethane	39.9922 ppb v/v
							1,2-Dichloroethene, cis-	39.9922 ppb v/v
							1,2-Dichloroethene, trans-	39.9922 ppb v/v
							1,2-Dichloropropane	39.9922 ppb v/v
							1,3,5-Trimethylbenzene	39.9922 ppb v/v
							1,3-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dioxane	39.9922 ppb v/v
							2-Butanone (MEK)	39.9922 ppb v/v
							2-Chlorotoluene	39.9922 ppb v/v
2-Methyl-2-propanol	39.9922 ppb v/v							
3-Chloro-1-propene	39.9922 ppb v/v							
4-Ethyltoluene	39.9922 ppb v/v							
4-Methyl-2-pentanone (MIBK)	39.9922 ppb v/v							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	39.9922 ppb v/v
							Benzene	39.9922 ppb v/v
							Bromoform	39.9922 ppb v/v
							Bromomethane	39.9922 ppb v/v
							Butadiene	39.9922 ppb v/v
							Carbon disulfide	39.9922 ppb v/v
							Carbon tetrachloride	39.9922 ppb v/v
							Chlorobenzene	39.9922 ppb v/v
							Chlorodibromomethane	39.9922 ppb v/v
							Chloroethane	39.9922 ppb v/v
							Chloroform	39.9922 ppb v/v
							Chloromethane	39.9922 ppb v/v
							cis-1,3-Dichloropropene	39.9922 ppb v/v
							Cyclohexane	39.9922 ppb v/v
							Dichlorobromomethane	39.9922 ppb v/v
							Dichlorodifluoromethane	39.9922 ppb v/v
							Ethylbenzene	39.9922 ppb v/v
							Ethylene Dibromide	39.9922 ppb v/v
							Hexachlorobutadiene	39.9922 ppb v/v
							Hexane	39.9922 ppb v/v
							Isooctane	39.9922 ppb v/v
							Isopropyl alcohol	39.9922 ppb v/v
							m-Xylene & p-Xylene	79.9845 ppb v/v
							Methyl methacrylate	39.9922 ppb v/v
							Methyl tert-butyl ether	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	39.9922 ppb v/v
							n-Heptane	39.9922 ppb v/v
							o-Xylene	39.9922 ppb v/v
							Styrene	39.9922 ppb v/v
							Tetrachloroethene	39.9922 ppb v/v
							Tetrahydrofuran	39.9922 ppb v/v
							Toluene	39.9922 ppb v/v
							trans-1,3-Dichloropropene	39.9922 ppb v/v
							Trichloroethene	39.9922 ppb v/v
							Trichlorofluoromethane	39.9922 ppb v/v
							Vinyl bromide	39.9922 ppb v/v
							Vinyl chloride	39.9922 ppb v/v
.ATTO15CALSTKi_00047	12/05/13	09/05/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15LCSW_00317	10/17/13	07/25/13	DI WATER, Lot 3089	15.463 L	ATTO15LCSSTKi_00040	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, cis-	9.99806 ppb v/v
							1,2-Dichloroethene, trans-	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2-Butanone (MEK)	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v
							2-Methyl-2-propanol	9.99806 ppb v/v
							3-Chloro-1-propene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Ethyltoluene	9.99806 ppb v/v
							4-Methyl-2-pentanone (MIBK)	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Butadiene	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chlorodibromomethane	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dichlorobromomethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Ethylene Dibromide	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Hexane	9.99806 ppb v/v
							Isooctane	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m-Xylene & p-Xylene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							o-Xylene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl bromide	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
.ATTO15LCSSTKi_00040	10/17/13	07/17/13	DI WATER, Lot 4985	37.5 L	ATTO15LCSS_00011	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15LCSS_00011	12/05/13		Spectra Gases, Lot CC-230119			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-18629-1

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15WISs_00001	11/23/15		Spectra Gases, Lot CC-172855		(Purchased Reagent)		1,4-Difluorobenzene	100 ppb v/v
							Chlorobenzene-d5	100 ppb v/v
							Chlorobromomethane	100 ppb v/v

METHODOLOGY SUMMARY

Laboratory: TestAmerica Laboratories

Project No: NA

Location: South Burlington, Vermont

SDG No:

VOA

Volatile Organics - NJDEP-LLTO-15

CASE NARRATIVE

Client: URS Corporation

Project: POM/VI SAMPLING

Report Number: 200-18629-1

The samples in this sample set were analyzed by the EPA Compendium Method TO-15 for specific volatile organic constituents. Unless otherwise noted below, the analytical work followed the requirements outlined in the New Jersey DEP guidelines.

The practice of the laboratory is to analyze one canister from each batch of canisters that have been cleaned for re-use in order to certify the batch. The canisters that were used for this sampling event were from multiple batches. The certifying analyses were free of target analytes down to the concentration levels that are contractually required (nominally 0.2 PPBV). In order to provide for the lower level of detection required for canister certification, the laboratory analyzed a 500 milliliter volume. The laboratory's established practice for the analysis of field samples is based on the analysis of a 200 milliliter sample volume. Documentation of the analytical work supporting canister certification is included in the "Clean Can Certification" section of this submittal. Documentation of canister vacuum as delivered to, and received from, the field is included in the "Clean Can Certification" section of this submittal.

Manual integration was employed in deriving certain of the analytical results. The values that have been derived from manual integration are qualified on the quantitation reports, and extracted ion current profiles are included in the data package.

The following details the column type and trap design that were used in the performance of the analytical work for the sample in this sample set:

Chromatography Column - Restek RTX-624
Length - 60 meters
Inner Diameter - 0.32 millimeters
Film thickness - 1.8 micrometers
Trap Design - Entech Model 7100A (glass bead and Tenax with cryo-focusing)

A summary of the laboratory's current Method Detection Limits (MDLs) has been provided as part of this submittal, immediately following this transmittal letter.

RECEIPT

The samples were received on 09/26/2013; the samples arrived in good condition.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): AA-092513-SGP-01. The container labels and COC list a flow controller asset of 9697. The flow controller received is 4696.

VOLATILE ORGANIC COMPOUNDS

Samples SG-092513-SGP-01 and AA-092513-SGP-01 were analyzed for Volatile Organic Compounds in accordance with NJDEP-LL TO-15. The samples were analyzed on 10/01/2013.

No difficulties were encountered during the VOCs analysis.

All quality control parameters were within the acceptance limits.

Project Name: NA
 Field ID Number: SG-092513-SGP-01
 Laboratory ID Number: 200-18629-1

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Sampling Date: 09/25/2013 14:17
 Analysis Date: 10/01/2013 18:42

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	2.0	U	5			
1,1-Dichloroethene	75-35-4	96.94	2.0	U	8			
1,2-Dichloroethene, trans-	156-60-5	96.94	3.0		12			
1,1-Dichloroethane	75-34-3	98.96	2.0	U	8			
1,2-Dichloroethene, cis-	156-59-2	96.94	8.1		32			
1,1,1-Trichloroethane	71-55-6	133.41	4.9		27			
Carbon tetrachloride	56-23-5	153.81	2.0	U	13			
1,2-Dichloroethane	107-06-2	98.96	2.0	U	8			
Trichloroethene	79-01-6	131.39	46		250			
Tetrachloroethene	127-18-4	165.83	270		1800			

Project Name: NA
 Field ID Number: AA-092513-SGP-01
 Laboratory ID Number: 200-18629-2

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Sampling Date: 09/25/2013 14:17
 Analysis Date: 10/01/2013 19:30

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	2.0	U	5			
1,1-Dichloroethene	75-35-4	96.94	2.0	U	8			
1,2-Dichloroethene, trans-	156-60-5	96.94	2.0	U	8			
1,1-Dichloroethane	75-34-3	98.96	2.0	U	8			
1,2-Dichloroethene, cis-	156-59-2	96.94	2.0	U	8			
1,1,1-Trichloroethane	71-55-6	133.41	2.0	U	11			
Carbon tetrachloride	56-23-5	153.81	2.0	U	13			
1,2-Dichloroethane	107-06-2	98.96	2.0	U	8			
Trichloroethene	79-01-6	131.39	2.0	U	11			
Tetrachloroethene	127-18-4	165.83	2.0	U	14			

Project Name: NA
 Field ID Number:
 Laboratory ID Number: MB 200-62008/3

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Analysis Date: 10/01/2013 11:20

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	0.20	U	0.5			
1,1-Dichloroethene	75-35-4	96.94	0.20	U	0.8			
1,2-Dichloroethene, trans-	156-60-5	96.94	0.20	U	0.8			
1,1-Dichloroethane	75-34-3	98.96	0.20	U	0.8			
1,2-Dichloroethene, cis-	156-59-2	96.94	0.20	U	0.8			
1,1,1-Trichloroethane	71-55-6	133.41	0.20	U	1			
Carbon tetrachloride	56-23-5	153.81	0.20	U	1			
1,2-Dichloroethane	107-06-2	98.96	0.20	U	0.8			
Trichloroethene	79-01-6	131.39	0.20	U	1			
Tetrachloroethene	127-18-4	165.83	0.20	U	1			

DATA REPORTING QUALIFIERS

Client: URS Corporation

Job Number: 200-18629-1

Lab Section	Qualifier	Description
Air - GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD:	EPA TO15	MATRIX:	AIR	QA Review:	Kirstin Daigle			
PREP METHOD:	NA	Instrument(s):	B, C, G	Date Approved:	4/13/2012			
CLEANUP METHOD(s):	NA	DL	DL	TALS Entry:	4/13/2012			
ANALYTE	CAS #	DL ppbv	DL Source ²	LOD ppbv	LOD REF	LOQ ppbv	LOD/DL Ratio	LOQ/LOD Ratio
1,1,1-Trichloroethane	71-55-6	0.020	40CFR	0.080	LOD3	0.20	4.0	2.5
1,1,2,2-Tetrachloroethane	79-34-5	0.011	40CFR	0.040	LOD2	0.20	3.7	5.0
1,1,2-Trichloroethane	79-00-5	0.016	40CFR	0.040	LOD2	0.20	2.6	5.0
1,1-Dichloroethane	75-34-3	0.023	40CFR	0.080	LOD3	0.20	3.5	2.5
1,1-Dichloroethene	75-35-4	0.086	40CFR	0.20	LOD4	0.20	2.3	1.0
1,2,3-Trichlorobenzene	87-61-6	0.041	40CFR	0.080	LOD3	0.20	1.9	2.5
1,2,3-Trichloropropane	96-18-4	0.025	40CFR	0.080	LOD3	0.20	3.2	2.5
1,2,4-Trichlorobenzene	120-82-1	0.030	40CFR	0.080	LOD3	0.50	2.7	6.3
1,2,4-Trimethylbenzene	95-63-6	0.021	40CFR	0.080	LOD3	0.20	3.9	2.5
1,2-Dibromoethane	106-93-4	0.014	40CFR	0.040	LOD2	0.20	2.8	5.0
1,2-Dichlorobenzene	95-50-1	0.026	40CFR	0.080	LOD3	0.20	3.1	2.5
1,2-Dichloroethane	107-06-2	0.018	40CFR	0.040	LOD2	0.20	2.2	5.0
1,2-Dichloroethene, Total ¹	540-59-0	0.023	40CFR	0.080	LOD3	0.20	3.5	2.5
1,2-Dichloropropane	78-87-5	0.023	40CFR	0.080	LOD3	0.20	3.4	2.5
1,2-Dichlorotetrafluoroethane	76-14-2	0.020	40CFR	0.080	LOD3	0.20	4.0	2.5
1,3,5-Trimethylbenzene	108-67-8	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
1,3-Butadiene	106-99-0	0.025	40CFR	0.080	LOD3	0.20	3.3	2.5
1,3-Dichlorobenzene	541-73-1	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
1,4-Dichlorobenzene	106-46-7	0.018	40CFR	0.040	LOD2	0.20	2.2	5.0
1,4-Dioxane	123-91-1	0.070	40CFR	0.20	LOD4	5.0	2.8	25.0
2,2,4-Trimethylpentane	540-84-1	0.015	40CFR	0.040	LOD2	0.20	2.8	5.0
2-Chlorotoluene	95-49-8	0.013	40CFR	0.040	LOD2	0.20	3.1	5.0
3-Chloropropene	107-05-1	0.047	40CFR	0.080	LOD3	0.50	1.7	6.3
4-Ethyltoluene	622-96-8	0.015	40CFR	0.040	LOD2	0.20	2.6	5.0
4-Isopropyltoluene	99-87-6	0.020	40CFR	0.080	LOD3	0.20	3.9	2.5
Acetone	67-64-1	0.40	LTB	0.50	LOD5	5.0	1.3	10.0
Acetonitrile	75-05-8	0.082	40CFR	0.20	LOD4	5.0	2.4	25.0
Acrolein	107-02-8	0.067	40CFR	0.20	LOD4	5.0	3.0	25.0
Acrylonitrile	107-13-1	0.023	40CFR	0.080	LOD3	0.50	3.5	6.3
Alpha Methyl Styrene	98-83-9	0.018	40CFR	0.040	LOD2	0.20	2.2	5.0
Benzene	71-43-2	0.018	40CFR	0.040	LOD2	0.20	2.2	5.0
Benzyl chloride	100-44-7	0.022	40CFR	0.080	LOD3	0.20	3.7	2.5
Bromodichloromethane	75-27-4	0.012	40CFR	0.040	LOD2	0.20	3.4	5.0
Bromoethene(Vinyl Bromide)	593-60-2	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
Bromoform	75-25-2	0.0072	40CFR	0.028	LOD1	0.20	3.9	7.1
Bromomethane	74-83-9	0.027	40CFR	0.080	LOD3	0.20	3.0	2.5
Carbon disulfide	75-15-0	0.020	40CFR	0.080	LOD3	0.50	3.9	6.3

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD:	EPA TO15	MATRIX:	AIR	QA Review:	Kirstin Daigle			
PREP METHOD:	NA	Instrument(s):	B, C, G	Date Approved:	4/13/2012			
CLEANUP METHOD(s):	NA	DL	DL	TALS Entry:	4/13/2012			
ANALYTE	CAS #	DL ppbv	DL Source ²	LOD ppbv	LOD REF	LOQ ppbv	LOD/DL Ratio	LOQ/LOD Ratio
Carbon tetrachloride	56-23-5	0.013	40CFR	0.040	LOD2	0.040	3.0	1.0
Chlorobenzene	108-90-7	0.013	40CFR	0.040	LOD2	0.20	3.0	5.0
Chloroethane	75-00-3	0.033	40CFR	0.080	LOD3	0.50	2.4	6.3
Chloroform	67-66-3	0.024	40CFR	0.080	LOD3	0.20	3.4	2.5
Chloromethane	74-87-3	0.034	LTB	0.080	LOD3	0.50	2.4	6.3
cis-1,2-Dichloroethene	156-59-2	0.084	40CFR	0.20	LOD4	0.20	2.4	1.0
cis-1,3-Dichloropropene	10061-01-5	0.013	40CFR	0.040	LOD2	0.20	3.2	5.0
Cumene	98-82-8	0.011	40CFR	0.040	LOD2	0.20	3.5	5.0
Cyclohexane	110-82-7	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
Dibromochloromethane	124-48-1	0.011	40CFR	0.040	LOD2	0.20	3.6	5.0
Dibromomethane	74-95-3	0.016	40CFR	0.040	LOD2	0.20	2.5	5.0
Dichlorodifluoromethane	75-71-8	0.020	40CFR	0.080	LOD3	0.50	3.9	6.3
Ethanol	64-17-5	0.18	40CFR	0.40	LOD4	5.0	2.2	12.5
Ethyl acetate	141-78-6	0.065	40CFR	0.20	LOD4	5.0	3.1	25.0
Ethyl ether	60-29-7	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
Ethylbenzene	100-41-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Freon 22	75-45-6	0.023	40CFR	0.080	LOD3	0.50	3.5	6.3
Freon TF	76-13-1	0.020	40CFR	0.080	LOD3	0.20	3.9	2.5
Hexachlorobutadiene	87-68-3	0.029	40CFR	0.080	LOD3	0.20	2.8	2.5
Isopentane	78-78-4	0.064	40CFR	0.20	LOD4	0.20	3.1	1.0
Isopropyl alcohol	67-63-0	0.076	40CFR	0.20	LOD4	5.0	2.6	25.0
m,p-Xylene	179601-23-1	0.022	40CFR	0.040	LOD2	0.20	1.8	5.0
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.040	40CFR	0.080	LOD3	0.50	2.0	6.3
Methyl Ethyl Ketone	78-93-3	0.025	40CFR	0.080	LOD3	0.50	3.2	6.3
Methyl isobutyl ketone	108-10-1	0.034	40CFR	0.080	LOD3	0.50	2.4	6.3
Methyl methacrylate	80-62-6	0.016	40CFR	0.040	LOD2	0.50	2.5	12.5
Methyl tert-butyl ether	1634-04-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Methylene Chloride	75-09-2	0.023	40CFR	0.080	LOD3	0.50	3.5	6.3
Naphthalene	91-20-3	0.038	40CFR	0.080	LOD3	0.50	2.1	6.3
n-Butane	106-97-8	0.022	40CFR	0.080	LOD3	0.50	3.7	6.3
n-Butanol	71-36-3	0.14	40CFR	0.20	LOD4	5.0	1.4	25.0
n-Butylbenzene	104-51-8	0.022	40CFR	0.080	LOD3	0.20	3.7	2.5
n-Decane	124-18-5	0.018	40CFR	0.040	LOD2	0.50	2.3	12.5
n-Dodecane	112-40-3	0.19	40CFR	0.20	LOD4	5.0	1.0	25.0
n-Heptane	142-82-5	0.017	40CFR	0.040	LOD2	0.20	2.4	5.0
n-Hexane	110-54-3	0.020	40CFR	0.080	LOD3	0.20	3.9	2.5
n-Nonane	111-84-2	0.010	40CFR	0.040	LOD2	0.20	4.1	5.0

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD:	EPA TO15	MATRIX:	AIR	QA Review:	Kirstin Daigle			
PREP METHOD:	NA	Instrument(s):	B, C, G	Date Approved:	4/13/2012			
CLEANUP METHOD(s):	NA			TALS Entry:	4/13/2012			
ANALYTE	CAS #	DL ppbv	DL Source ²	LOD ppbv	LOD REF	LOQ ppbv	LOD/DL Ratio	LOQ/LOD Ratio
n-Octane	111-65-9	0.013	40CFR	0.040	LOD2	0.50	3.1	12.5
n-Pentane	109-66-0	0.023	40CFR	0.080	LOD3	0.50	3.4	6.3
n-Propylbenzene	103-65-1	0.013	40CFR	0.040	LOD2	0.20	3.0	5.0
n-Undecane	1120-21-4	0.034	40CFR	0.080	LOD3	5.0	2.3	62.4
Propylene	115-07-1	0.094	40CFR	0.20	LOD4	5.0	2.1	25.0
sec-Butylbenzene	135-98-8	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Styrene	100-42-5	0.011	40CFR	0.040	LOD2	0.20	3.6	5.0
tert-Butyl alcohol	75-65-0	0.041	40CFR	0.080	LOD3	5.0	2.0	62.4
tert-Butylbenzene	98-06-6	0.011	40CFR	0.040	LOD2	0.20	3.6	5.0
Tetrachloroethene	127-18-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Tetrahydrofuran	109-99-9	0.029	40CFR	0.080	LOD3	5.0	2.7	62.4
Toluene	108-88-3	0.014	40CFR	0.040	LOD2	0.20	2.8	5.0
trans-1,2-Dichloroethene	156-60-5	0.023	40CFR	0.080	LOD3	0.20	3.5	2.5
trans-1,3-Dichloropropene	10061-02-6	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Trichloroethene	79-01-6	0.0092	40CFR	0.028	LOD1	0.040	3.1	1.4
Trichlorofluoromethane	75-69-4	0.021	40CFR	0.080	LOD3	0.20	3.9	2.5
Vinyl acetate	108-05-4	0.025	40CFR	0.080	LOD3	5.0	3.2	62.4
Vinyl chloride	75-01-4	0.0091	40CFR	0.028	LOD1	0.040	3.1	1.4
Xylene, o-	95-47-6	0.016	40CFR	0.040	LOD2	0.20	2.4	5.0
Xylene, Total ¹	1330-20-7	0.016	40CFR	0.040	LOD2	0.20	2.4	5.0

¹: Summary Analyte. The DL, LOD and LOQ are set to the value equal to the lowest DL, LOD and LOQ of the component analytes.

²: 40CFR = DL is taken from 40CFR MDL Study. LTB = DL calculated from Long Term Evaluation of Method Blanks

Detection Limit (DL) Study Report

TEST METHOD:	EPA TO15	Prep Date:	01/26/12
PREP METHOD:	NA	Initial Amount:	200 mL
CLEANUP METHOD(S):	NA	Final Amount:	200 mL
MATRIX:	AIR		
ANALYTE	Date Analyzed:	01/26/12	01/26/12
	Instrument ID:	C	C
	Column Type:	RTX-624	RTX-624
	Spike	REP 1	REP 2
	CAS #	ppbv	ppbv
Carbon tetrachloride	56-23-5	0.031694	0.034823
Trichloroethene	79-01-6	0.036466	0.040282
Vinyl chloride	75-01-4	0.033302	0.039936
		0.042118	0.042118
		0.044945	0.044945
		0.040741	0.037944
		0.042137	0.04253
		0.041447	0.038812
		0.038812	0.042247
		0.04377	0.04333
		0.039661	0.041193
		REP 3	REP 4
		REP 5	REP 6
		REP 7	REP 7
		Mean	Average
		ppbv	%R
		0.039	97%
		0.042	105%
		0.038	96%
		STD	DL
		DEV	ppbv
		0.00422	0.013
		0.00292	0.0092
		0.00291	0.0091
		Spike/ DL	Ratio
		3.0	4.4
		4.4	4.4

Detection Limit (DL) Study Report

TEST METHOD:		EPA TO15		Prep Date:		01/16/12							
PREP METHOD:		NA		Initial Amount:		200 mL							
CLEANUP METHOD(S):		NA		Final Amount:		200 mL							
MATRIX:		AIR											
ANALYTE	CAS #	Date Analyzed:	Spike ppbv	01/16/12		01/16/12		Mean ppbv	Average %R	STD DEV	DL ppbv	Spike/DL Ratio	
				C	REP 1 ppbv	C	REP 2 ppbv						C
Instrument ID:	Column Type:	Instrument ID:	Column Type:	REP 1 ppbv	REP 2 ppbv	REP 3 ppbv	REP 4 ppbv	REP 5 ppbv	REP 6 ppbv	REP 7 ppbv	REP 6 ppbv	REP 7 ppbv	
n-Butylbenzene	104-51-8		0.050	0.048137	0.028586	0.029114	0.03042	0.035355	0.029657	0.031059	0.00696	0.022	2.3
n-Decane	124-18-5		0.050	0.036546	0.022044	0.020162	0.023891	0.026808	0.0212	0.026588	0.00557	0.018	2.9
n-Dodecane	112-40-3		0.50	0.627098	0.480578	0.473868	0.474722	0.571975	0.47566	0.497409	0.06078	0.191	2.6
n-Heptane	142-82-5		0.10	0.09942	0.10363	0.111768	0.109175	0.097895	0.109455	0.10716	0.00531	0.017	6.0
n-Hexane	110-54-3		0.050	0.073875	0.05334	0.057888	0.064359	0.063601	0.06049	0.065062	0.00645	0.020	2.5
n-Nonane	111-84-2		0.050	0.050916	0.041586	0.043278	0.04702	0.043524	0.045371	0.044423	0.00307	0.010	5.2
n-Octane	111-65-9		0.10	0.102898	0.102016	0.109872	0.10588	0.0989	0.109196	0.108147	0.00412	0.013	7.7
n-Pentane	109-66-0		0.10	0.113422	0.112879	0.122504	0.124181	0.10199	0.115375	0.119221	0.00744	0.023	4.3
n-Propylbenzene	103-65-1		0.050	0.045237	0.034802	0.031889	0.037885	0.039789	0.03589	0.036715	0.00423	0.013	3.8
n-Undecane	1120-21-4		0.50	0.264815	0.245186	0.235354	0.243748	0.260431	0.239573	0.244349	0.01085	0.034	14.6
Propylene	115-07-1		0.50	0.60298	0.617479	0.605271	0.627917	0.623967	0.691435	0.636873	0.02988	0.094	5.3
sec-Butylbenzene	135-98-8		0.10	0.073975	0.076789	0.078233	0.081733	0.076792	0.073771	0.066755	0.00468	0.015	6.8
Styrene	100-42-5		0.050	0.044637	0.038055	0.034198	0.04162	0.03885	0.036069	0.040379	0.00349	0.011	4.6
tert-Butyl alcohol	75-65-0		0.50	0.508232	0.496266	0.480641	0.489734	0.509943	0.513052	0.514001	0.01296	0.041	12.3
tert-Butylbenzene	98-06-6		0.050	0.0437	0.035827	0.032872	0.039268	0.040358	0.036458	0.038936	0.00350	0.011	4.5
Tetrachloroethene	127-18-4		0.10	0.102889	0.103282	0.109897	0.111806	0.098738	0.10689	0.101255	0.00473	0.015	6.7
Tetrahydrofuran	109-99-9		0.50	0.526214	0.508039	0.517002	0.536047	0.522949	0.511868	0.51802	0.00937	0.029	16.9
Toluene	108-88-3		0.10	0.101053	0.100661	0.106148	0.108643	0.097266	0.109432	0.104239	0.00449	0.014	7.1
trans-1,2-Dichloroethene	156-60-5		0.10	0.107583	0.103375	0.113143	0.112858	0.092156	0.108578	0.109256	0.00722	0.023	4.4
trans-1,3-Dichloropropene	10061-02-6		0.10	0.095167	0.098962	0.106149	0.106491	0.095199	0.102061	0.09792	0.00475	0.015	6.7
Trichlorofluoromethane	75-69-4		0.050	0.077581	0.059176	0.059963	0.071561	0.065175	0.064871	0.069117	0.00653	0.021	2.4
Vinyl acetate	108-05-4		0.50	0.494487	0.509174	0.494689	0.500711	0.516169	0.498506	0.498208	0.00806	0.025	19.7
Xylene, o-	95-47-6		0.10	0.087382	0.088147	0.097469	0.093614	0.086955	0.091865	0.081519	0.00520	0.016	6.1

Limit of Detection (LOD) Verification Report

TEST METHOD:		EPA TO15		Prep Date:		1/31/2012, 02/06/12		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		B			C		
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624			RTX-624		
MATRIX:		AIR		LOD Ref:		1							
ANALYTE	CAS #	DL ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
Bromoform	75-25-2	0.0072	0.028	3.9	Y	0.0236358	01/31/12	0.0269937	02/06/12	0.0310274	01/31/12	0.0310274	01/31/12
Trichloroethene	79-01-6	0.0092	0.028	3.1	Y	0.0369347	01/31/12	0.0357282	02/06/12	0.0370572	01/31/12	0.0370572	01/31/12
Vinyl chloride	75-01-4	0.0091	0.028	3.1	Y	0.0382497	01/31/12	0.0271757	02/06/12	0.0427657	01/31/12	0.0427657	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	EPA TO15		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
	PREP METHOD:	NA	Initial Amount:	200 mL	B			C			G	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624			RTX-624			RTX-624		
MATRIX:	AIR	LOD Ref:	2									
ANALYTE	CAS #	DL ppbv	Spike ppbv	Pass Y/N	Spike/DL Ratio	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	
1,1,2,2-Tetrachloroethane	79-34-5	0.011	0.040	Y	3.6	0.0439484	01/30/12	0.0367094	01/30/12	0.0368553	01/31/12	
1,1,2-Trichloroethane	79-00-5	0.016	0.040	Y	2.5	0.04085	01/30/12	0.0383681	01/30/12	0.0375874	01/31/12	
1,2-Dibromoethane	106-93-4	0.014	0.040	Y	2.9	0.0382115	01/30/12	0.0373325	01/30/12	0.0413789	01/31/12	
1,2-Dichloroethane	107-06-2	0.018	0.040	Y	2.2	0.043269	01/30/12	0.044657	01/30/12	0.0427347	01/31/12	
1,3,5-Trimethylbenzene	108-67-8	0.019	0.040	Y	2.1	0.0448217	01/30/12	0.0356625	01/30/12	0.0229489	01/31/12	
1,3-Dichlorobenzene	541-73-1	0.019	0.040	Y	2.1	0.0440867	01/30/12	0.0375736	01/30/12	0.0483551	01/31/12	
1,4-Dichlorobenzene	106-46-7	0.018	0.040	Y	2.2	0.0467479	01/30/12	0.0378337	01/30/12	0.0332018	01/31/12	
2,2,4-Trimethylpentane	540-84-1	0.015	0.040	Y	2.7	0.0458012	01/30/12	0.0432881	01/30/12	0.0413784	01/31/12	
2-Chlorotoluene	95-49-8	0.013	0.040	Y	3.1	0.0477588	01/30/12	0.0398619	01/30/12	0.0273756	01/31/12	
4-Ethyltoluene	622-96-8	0.015	0.040	Y	2.7	0.0413871	01/30/12	0.03224089	01/30/12	0.0183816	01/31/12	
Alpha Methyl Styrene	98-83-9	0.018	0.040	Y	2.2	0.0283359	01/30/12	0.0241925	01/30/12	0.0361873	01/31/12	
Benzene	71-43-2	0.018	0.040	Y	2.2	0.0566347	01/30/12	0.0538394	01/30/12	0.0488064	01/31/12	
Bromodichloromethane	75-27-4	0.012	0.040	Y	3.3	0.0416361	01/30/12	0.0401186	01/30/12	0.0400368	01/31/12	
Bromoethene(Vinyl Bromide)	593-60-2	0.019	0.040	Y	2.1	0.0477646	01/30/12	0.0390748	01/30/12	0.0509984	01/31/12	
Carbon tetrachloride	56-23-5	0.019	0.040	Y	2.1	0.0450564	01/30/12	0.0453807	01/30/12	0.0445167	01/31/12	
Chlorobenzene	108-90-7	0.013	0.040	Y	3.1	0.0509605	01/30/12	0.0454508	01/30/12	0.0435362	01/31/12	
cis-1,3-Dichloropropene	10061-01-5	0.013	0.040	Y	3.1	0.0409175	01/30/12	0.0482381	01/30/12	0.048195	01/31/12	
Cumene	98-82-8	0.011	0.040	Y	3.6	0.0423284	01/30/12	0.0378653	01/30/12	0.0334343	01/31/12	
Cyclohexane	110-82-7	0.013	0.040	Y	3.1	0.0501248	01/30/12	0.0390593	01/30/12	0.0475519	01/31/12	
Dibromochloromethane	124-48-1	0.011	0.040	Y	3.6	0.0355362	01/30/12	0.0354374	01/30/12	0.0358777	01/31/12	
Dibromomethane	74-95-3	0.016	0.040	Y	2.5	0.0458574	01/30/12	0.0384973	01/30/12	0.0533226	01/31/12	
Ethyl ether	60-29-7	0.019	0.040	Y	2.1	0.0360172	01/30/12	0.0208922	01/30/12	0.0468287	01/31/12	
Ethylbenzene	100-41-4	0.015	0.040	Y	2.7	0.0470157	01/30/12	0.0410152	01/30/12	0.031831	01/31/12	
m,p-Xylene	179601-23-1	0.022	0.080	Y	3.7	0.0866301	01/30/12	0.0737886	01/30/12	0.0660686	01/31/12	
Methyl methacrylate	80-62-6	0.016	0.040	Y	2.5	0.0206074	01/30/12	0.0208438	01/30/12	0.0234625	01/31/12	
Methyl tert-butyl ether	1634-04-4	0.015	0.040	Y	2.7	0.0444376	01/30/12	0.0448008	01/30/12	0.0421109	01/31/12	
n-Decane	124-18-5	0.010	0.040	Y	4.0	0.0452386	01/30/12	0.0212837	01/30/12	0.0306513	01/31/12	
n-Heptane	142-82-5	0.017	0.040	Y	2.4	0.0479421	01/30/12	0.0424606	01/30/12	0.0476082	01/31/12	
n-Nonane	111-84-2	0.010	0.040	Y	4.0	0.0450012	01/30/12	0.035101	01/30/12	0.0350987	01/31/12	
n-Octane	111-65-9	0.013	0.040	Y	3.1	0.0462756	01/30/12	0.0443126	01/30/12	0.0605262	01/31/12	
n-Propylbenzene	103-65-1	0.013	0.040	Y	3.1	0.0471636	01/30/12	0.0289208	01/30/12	0.0273027	01/31/12	
sec-Butylbenzene	135-98-8	0.015	0.040	Y	2.7	0.044853	01/30/12	0.0347986	01/30/12	0.0245313	01/31/12	
Styrene	100-42-5	0.011	0.040	Y	3.6	0.0313848	01/30/12	0.0323169	01/30/12	0.0333362	01/31/12	
tert-Butylbenzene	98-06-6	0.011	0.040	Y	3.6	0.043188	01/30/12	0.0312036	01/30/12	0.0288258	01/31/12	
Tetrachloroethene	127-18-4	0.015	0.040	Y	2.7	0.0432741	01/30/12	0.041753	01/30/12	0.0617601	01/31/12	
Toluene	108-88-3	0.014	0.040	Y	2.9	0.0469235	01/30/12	0.0421189	01/30/12	0.0477686	01/31/12	

Limit of Detection (LOD) Verification Report

TEST METHOD:		EPA TO15		Prep Date:		01/30/12, 01/31/12		Instrument(s):			
PREP METHOD:		NA		Initial Amount:		200 mL		B		C	
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624		RTX-624	
MATRIX:		AIR		LOD Ref:		2					
ANALYTE	CAS #	DL ppbv	Spike ppbv	Pass Y/N	Spike/DL Ratio	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
trans-1,3-Dichloropropene	10061-02-6	0.015	0.040	Y	2.7	0.0354448	01/30/12	0.0450151	01/30/12	0.040721	01/31/12
Xylene, o-	95-47-6	0.016	0.040	Y	2.5	0.0416562	01/30/12	0.0359343	01/30/12	0.0382714	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	EPA TO15		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
	PREP METHOD:	NA	Initial Amount:	200 mL	B			C			G	
CLEANUP METHOD(S):	NA	Final Amount:	200 mL	RTX-624			RTX-624			RTX-624		
MATRIX:	AIR	LOD Ref:	3									
ANALYTE	CAS #	DL ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	
1,1,1-Trichloroethane	71-55-6	0.020	0.080	4.0	Y	0.0847092	01/30/12	0.085857	01/30/12	0.1010164	01/31/12	
1,1-Dichloroethane	75-34-3	0.023	0.080	3.5	Y	0.0931831	01/30/12	0.0857771	01/30/12	0.0986975	01/31/12	
1,2,3-Trichlorobenzene	87-61-6	0.041	0.080	2.0	Y	0.0539692	01/30/12	0.0771812	01/30/12	0.0473325	01/31/12	
1,2,3-Trichloropropane	96-18-4	0.025	0.080	3.2	Y	0.0977633	01/30/12	0.0754392	01/30/12	0.0944615	01/31/12	
1,2,4-Trichlorobenzene	120-82-1	0.030	0.080	2.7	Y	0.0566003	01/30/12	0.0789511	01/30/12	0.0435911	01/31/12	
1,2,4-Trimethylbenzene	95-63-6	0.021	0.080	3.8	Y	0.0829333	01/30/12	0.0685175	01/30/12	0.0631691	01/31/12	
1,2-Dichlorobenzene	95-50-1	0.026	0.080	3.1	Y	0.085858	01/30/12	0.0752173	01/30/12	0.0806144	01/31/12	
1,2-Dichloropropane	78-87-5	0.023	0.080	3.5	Y	0.0891035	01/30/12	0.0819475	01/30/12	0.0842903	01/31/12	
1,2-Dichlorotetrafluoroethane	76-14-2	0.020	0.080	4.0	Y	0.0942239	01/30/12	0.0950581	01/30/12	0.0974105	01/31/12	
1,3-Butadiene	106-99-0	0.025	0.080	3.2	Y	0.0955856	01/30/12	0.088752	01/30/12	0.084439	01/31/12	
3-Chloropropene	107-05-1	0.047	0.080	1.7	Y	0.0993075	01/30/12	0.091879	01/30/12	0.1066344	01/31/12	
4-Isopropyltoluene	99-87-6	0.020	0.080	4.0	Y	0.0788073	01/30/12	0.0615909	01/30/12	0.0668848	01/31/12	
Acrylonitrile	107-13-1	0.023	0.080	3.5	Y	0.0697887	01/30/12	0.0685497	01/30/12	0.0882696	01/31/12	
Benzyl chloride	100-44-7	0.022	0.080	3.6	Y	0.0765995	01/30/12	0.0641082	01/30/12	0.0700765	01/31/12	
Bromomethane	74-83-9	0.027	0.080	3.0	Y	0.0930672	01/30/12	0.1028085	01/30/12	0.0944654	01/31/12	
Carbon disulfide	75-15-0	0.020	0.080	4.0	Y	0.0905713	01/30/12	0.0853358	01/30/12	0.0909487	01/31/12	
Chloroethane	75-00-3	0.033	0.080	2.4	Y	0.0917268	01/30/12	0.089895	01/30/12	0.1090466	01/31/12	
Chloroform	67-66-3	0.024	0.080	3.3	Y	0.0919575	01/30/12	0.0870513	01/30/12	0.0988419	01/31/12	
Chloromethane	74-87-3	0.034	0.080	2.4	Y	0.1161505	01/30/12	0.1338395	01/30/12	0.1092541	01/31/12	
Dichlorodifluoromethane	75-71-8	0.020	0.080	4.0	Y	0.0970985	01/30/12	0.0993256	01/30/12	0.1069844	01/31/12	
Freon 22	75-45-6	0.023	0.080	3.5	Y	0.1103272	01/30/12	0.1130052	01/30/12	0.1133509	01/31/12	
Freon TF	76-13-1	0.020	0.080	4.0	Y	0.0864918	01/30/12	0.0909698	01/30/12	0.0951117	01/31/12	
Hexachlorobutadiene	87-68-3	0.029	0.080	2.8	Y	0.088581	01/30/12	0.0782484	01/30/12	0.1003174	01/31/12	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.040	0.080	2.0	Y	0.0498435	01/30/12	0.0577654	01/30/12	0.0609178	01/31/12	
Methyl Ethyl Ketone	78-93-3	0.025	0.080	3.2	Y	0.0872113	01/30/12	0.0687485	01/30/12	0.1159597	01/31/12	
Methyl isobutyl ketone	108-10-1	0.034	0.080	2.4	Y	0.0662186	01/30/12	0.0665661	01/30/12	0.0747982	01/31/12	
Methylene Chloride	75-09-2	0.023	0.080	3.5	Y	0.151845	01/30/12	0.1578643	01/30/12	0.129091	01/31/12	
Naphthalene	91-20-3	0.038	0.080	2.1	Y	0.0384757	01/30/12	0.0722274	01/30/12	0.024552	01/31/12	
n-Butane	106-97-8	0.022	0.080	3.6	Y	0.100763	01/30/12	0.0958848	01/30/12	0.1046282	01/31/12	
n-Butylbenzene	104-51-8	0.022	0.080	3.6	Y	0.0837784	01/30/12	0.0570576	01/30/12	0.0580806	01/31/12	
n-Hexane	110-54-3	0.020	0.080	4.0	Y	0.0873752	01/30/12	0.0821212	01/30/12	0.08679	01/31/12	
n-Pentane	109-66-0	0.023	0.080	3.5	Y	0.1048033	01/30/12	0.0910497	01/30/12	0.0965429	01/31/12	
n-Undecane	1120-21-4	0.034	0.080	2.4	Y	0.1022867	01/30/12	0.0466734	01/30/12	0.0571363	01/31/12	
tert-Butyl alcohol	75-65-0	0.041	0.080	2.0	Y	0.0774393	01/30/12	0.0757495	01/30/12	0.0971297	01/31/12	
Tetrahydrofuran	109-99-9	0.029	0.080	2.8	Y	0.0860254	01/30/12	0.0813159	01/30/12	0.0882096	01/31/12	
trans-1,2-Dichloroethene	156-60-5	0.023	0.080	3.5	Y	0.0847762	01/30/12	0.0794756	01/30/12	0.0924157	01/31/12	

Limit of Detection (LOD) Verification Report

TEST METHOD:	EPA TO15	Prep Date:	01/30/12, 01/31/12	Instrument(s):			
PREP METHOD:	NA	Initial Amount:	200 mL	B		C	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624		RTX-624	
MATRIX:	AIR	LOD Ref:	3				
ANALYTE	CAS #	DL	Spike	Pass	Date	Result	Date
		ppbv	ppbv	Y/N	Analyzed	ppbv	Analyzed
Trichlorofluoromethane	75-69-4	0.021	0.080	Y	01/30/12	0.089964	01/30/12
Vinyl acetate	108-05-4	0.025	0.080	Y	01/30/12	0.0670452	01/30/12
						0.094083	01/30/12
						0.0689756	01/30/12
						0.1038024	01/31/12
						0.086645	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:		EPA TO15		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		B			C		
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624			RTX-624		
MATRIX:		AIR		LOD Ref:		4							
ANALYTE	CAS #	DL ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
1,1-Dichloroethene	75-35-4	0.086	0.20	2.3	Y	0.21544	01/30/12	0.2414822	01/30/12	0.1941059	01/31/12	0.1706352	01/31/12
1,4-Dioxane	123-91-1	0.070	0.20	2.9	Y	0.1538093	01/30/12	0.1757113	01/30/12	0.1706352	01/31/12	0.2682369	01/31/12
Acetonitrile	75-05-8	0.082	0.20	2.4	Y	0.2620567	01/30/12	0.4688481	01/30/12	0.2682369	01/31/12	0.2568267	01/31/12
Acrolein	107-02-8	0.067	0.20	3.0	Y	0.2478182	01/30/12	0.2085343	01/30/12	0.2568267	01/31/12	0.2148304	01/31/12
cis-1,2-Dichloroethene	156-59-2	0.084	0.20	2.4	Y	0.2065816	01/30/12	0.2304565	01/30/12	0.217851	01/31/12	0.5560324	01/31/12
Ethanol	64-17-5	0.18	0.40	2.2	Y	0.6113607	01/30/12	0.4718399	01/30/12	0.5560324	01/31/12	0.2569577	01/31/12
Ethyl acetate	141-78-6	0.065	0.20	3.1	Y	0.0826342	01/30/12	0.0257973	01/30/12	0.2569577	01/31/12	0.2148304	01/31/12
Isopentane	78-78-4	0.064	0.20	3.1	Y	0.2421419	01/30/12	0.2361926	01/30/12	0.2148304	01/31/12	0.2239464	01/31/12
Isopropyl alcohol	67-63-0	0.076	0.20	2.6	Y	0.1918079	01/30/12	0.1819499	01/30/12	0.2239464	01/31/12	0.2954564	01/31/12
n-Butanol	71-36-3	0.14	0.20	1.4	Y	0.1789814	01/30/12	0.2396682	01/30/12	0.2954564	01/31/12	0.1318974	01/31/12
n-Dodecane	112-40-3	0.19	0.20	1.0	Y	0.1615149	01/30/12	0.2051198	01/30/12	0.1318974	01/31/12	0.2677293	01/31/12
Propylene	115-07-1	0.094	0.20	2.1	Y	0.271858	01/30/12	0.3481022	01/30/12	0.2677293	01/31/12		

Limit of Detection (LOD) Verification Report

TEST METHOD:	EPA TO15	Prep Date:	01/30/12, 01/31/12	Instrument(s):			
PREP METHOD:	NA	Initial Amount:	200 mL	B		C	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624		RTX-624	
MATRIX:	AIR	LOD Ref:	4				
ANALYTE	CAS #	DL	Spike	Spike/DL	Pass	Result	Date
Acetone	67-64-1	ppbv	ppbv	Ratio	Y/N	ppbv	Analyzed
		0.40	0.50	1.3	Y	1.05682	01/30/12
						0.8803931	01/30/12
						0.9494763	01/31/12

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		EPA TO15		Prep Date:		01/30/12, 01/31/12, 02/	
PREP METHOD:		NA		Initial Amount:		200 mL	
CLEANUP METHOD(S):		NA		Final Amount:		200 mL	
MATRIX:		AIR		LOQ		Pass	
ANALYTE	CAS #	LOQ ppbv	Spike ppbv	Spike / LOQ Ratio	Pass	Instrument(s):	
						B	
						C	
						G	
Vinyl chloride	75-01-4	0.040	0.040	1.0	Y	0.037653748	94
Carbon tetrachloride	56-23-5	0.040	0.040	1.0	Y	0.057302274	143
Trichloroethene	79-01-6	0.040	0.040	1.0	Y	0.047078137	117
1,2-Dichlorotetrafluoroethane	76-14-2	0.20	0.20	1.0	Y	0.226962474	113
1,3-Butadiene	106-99-0	0.20	0.20	1.0	Y	0.212136957	106
Bromomethane	74-83-9	0.20	0.20	1.0	Y	0.235466793	118
Bromoethene(Vinyl Bromide)	593-60-2	0.20	0.20	1.0	Y	0.202929167	101
Trichlorofluoromethane	75-69-4	0.20	0.20	1.0	Y	0.217889263	109
Freon TF	76-13-1	0.20	0.20	1.0	Y	0.210084144	105
1,1-Dichloroethene	75-35-4	0.20	0.20	1.0	Y	0.236801737	118
Methyl tert-butyl ether	1634-04-4	0.20	0.20	1.0	Y	0.215864572	108
trans-1,2-Dichloroethene	156-60-5	0.20	0.20	1.0	Y	0.191509899	96
n-Hexane	110-54-3	0.20	0.20	1.0	Y	0.194778498	97
1,1-Dichloroethane	75-34-3	0.20	0.20	1.0	Y	0.195251478	98
cis-1,2-Dichloroethene	156-59-2	0.20	0.20	1.0	Y	0.233783716	117
Chloroform	67-66-3	0.20	0.20	1.0	Y	0.208729889	104
1,1,1-Trichloroethane	71-55-6	0.20	0.20	1.0	Y	0.20413639	102
Cyclohexane	110-82-7	0.20	0.20	1.0	Y	0.192938431	96
2,2,4-Trimethylpentane	540-84-1	0.20	0.20	1.0	Y	0.18981289	95
Benzene	71-43-2	0.20	0.20	1.0	Y	0.205776913	103
1,2-Dichloroethane	107-06-2	0.20	0.20	1.0	Y	0.20169939	101
n-Heptane	142-82-5	0.20	0.20	1.0	Y	0.185069607	93
1,2-Dichloropropane	78-87-5	0.20	0.20	1.0	Y	0.19984162	100
Bromodichloromethane	75-27-4	0.20	0.20	1.0	Y	0.178787348	89
Dibromomethane	74-95-3	0.20	0.20	1.0	Y	0.186893166	93
cis-1,3-Dichloropropene	10061-01-5	0.20	0.20	1.0	Y	0.1984556	99
Toluene	108-88-3	0.20	0.20	1.0	Y	0.193888307	97
trans-1,3-Dichloropropene	10061-02-6	0.20	0.20	1.0	Y	0.186799607	93
1,1,2-Trichloroethane	79-00-5	0.20	0.20	1.0	Y	0.198735441	99
Tetrachloroethene	127-18-4	0.20	0.20	1.0	Y	0.191830153	96
Dibromochloromethane	124-48-1	0.20	0.20	1.0	Y	0.169791393	85
1,2-Dibromoethane	106-93-4	0.20	0.20	1.0	Y	0.181906254	91
Chlorobenzene	108-90-7	0.20	0.20	1.0	Y	0.20444255	102
Ethylbenzene	100-41-4	0.20	0.20	1.0	Y	0.192919809	96
m,p-Xylene	179601-23-1	0.40	0.40	1.0	Y	0.373681854	93
Xylene, o-	95-47-6	0.20	0.20	1.0	Y	0.194634968	97

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		EPA TO15		Prep Date:		01/30/12, 01/31/12, 02/					
PREP METHOD:		NA		Initial Amount:		200 mL					
CLEANUP METHOD(S):		NA		Final Amount:		200 mL					
MATRIX:		AIR		LOQ		Pass					
ANALYTE	CAS #	LOQ ppbv	Spike ppbv	Spike / LOQ Ratio	Pass	Instrument(s):					
		RTX-624		RTX-624		RTX-624					
		01/30/12, 01/31/12		01/30/12, 02/09/12, 02/28/12		01/31/12					
		Result ppbv	%R	Result ppbv	%R	Result ppbv	%R				
Styrene	100-42-5	0.20	0.20	1.0	Y	0.1610885	81	0.168681925	84	0.1825784	91
Bromoform	75-25-2	0.20	0.20	1.0	Y	0.1518521	76	0.155865313	78	0.2132712	107
Cumene	98-82-8	0.20	0.20	1.0	Y	0.1919965	96	0.194614906	97	0.2096771	105
1,1,2,2-Tetrachloroethane	79-34-5	0.20	0.20	1.0	Y	0.2190932	110	0.198034594	99	0.1973121	99
n-Propylbenzene	103-65-1	0.20	0.20	1.0	Y	0.2176803	109	0.180087873	90	0.2056518	103
4-Ethyltoluene	622-96-8	0.20	0.20	1.0	Y	0.2007357	100	0.168665588	84	0.1977668	99
1,3,5-Trimethylbenzene	108-67-8	0.20	0.20	1.0	Y	0.2052589	103	0.182155396	91	0.1949404	97
2-Chlorotoluene	95-49-8	0.20	0.20	1.0	Y	0.2155235	108	0.186098239	93	0.2324965	116
tert-Butylbenzene	98-06-6	0.20	0.20	1.0	Y	0.2031567	102	0.187843873	94	0.2195841	110
1,2,4-Trimethylbenzene	95-63-6	0.20	0.20	1.0	Y	0.1980249	99	0.184375444	92	0.1835486	92
sec-Butylbenzene	135-98-8	0.20	0.20	1.0	Y	0.2136936	107	0.186399819	93	0.1992368	100
4-Isopropyltoluene	99-87-6	0.20	0.20	1.0	Y	0.190941	95	0.174423806	87	0.1910409	96
1,3-Dichlorobenzene	541-73-1	0.20	0.20	1.0	Y	0.1904339	95	0.189661204	95	0.2039491	102
1,4-Dichlorobenzene	106-46-7	0.20	0.20	1.0	Y	0.1811234	91	0.187857839	94	0.1899928	95
Benzyl chloride	100-44-7	0.20	0.20	1.0	Y	0.1887917	94	0.173426176	87	0.1754307	88
n-Butylbenzene	104-51-8	0.20	0.20	1.0	Y	0.216894	108	0.157349697	79	0.1672985	84
1,2-Dichlorobenzene	95-50-1	0.20	0.20	1.0	Y	0.1917522	96	0.195517514	98	0.2038696	102
Hexachlorobutadiene	87-68-3	0.20	0.20	1.0	Y	0.1960653	98	0.210306905	105	0.2692485	135
1,2,3-Trichlorobenzene	87-61-6	0.20	0.20	1.0	Y	0.124589	62	0.175465772	88	0.1194694	60
Ethyl ether	60-29-7	0.20	0.20	1.0	Y	0.2113528	106	0.199897571	100	0.1967665	98
Isopentane	78-78-4	0.20	0.20	1.0	Y	0.2693743	135	0.242683191	121	0.2101781	105
n-Nonane	111-84-2	0.20	0.20	1.0	Y	0.233004	117	0.169124795	85	0.1954915	98
Alpha Methyl Styrene	98-83-9	0.20	0.20	1.0	Y	0.1511434	76	0.142595619	71	0.1719449	86
Dichlorodifluoromethane	75-71-8	0.50	0.50	1.0	Y	0.6652969	133	0.605556406	121	0.5640332	113
Freon 22	75-45-6	0.50	0.50	1.0	Y	0.6807316	136	0.534866731	107	0.5578464	112
Chloromethane	74-87-3	0.50	0.50	1.0	Y	0.7072121	141	0.572340069	114	0.5452139	109
n-Butane	106-97-8	0.50	0.50	1.0	Y	0.6783094	136	0.525345233	105	0.5107488	102
Chloroethane	75-00-3	0.50	0.50	1.0	Y	0.6750309	135	0.561782534	112	0.552979	111
Ethanol	64-17-5	5.0	5.0	1.0	Y	6.414391	128	4.588677443	92	4.5392526	91
Carbon disulfide	75-15-0	0.50	0.50	1.0	Y	0.583639	117	0.498735702	100	0.4880552	98
3-Chloropropene	107-05-1	0.50	0.50	1.0	Y	0.5739317	115	0.423878997	85	0.5154411	103
Methylene Chloride	75-09-2	0.50	0.50	1.0	Y	0.6933183	139	0.560089251	112	0.5694856	114
Methyl Ethyl Ketone	78-93-3	0.50	0.50	1.0	Y	0.5817211	116	0.513150981	103	0.5314954	106
Methyl methacrylate	80-62-6	0.50	0.50	1.0	Y	0.4559876	91	0.422457781	84	0.4628928	93
Methyl isobutyl ketone	108-10-1	0.50	0.50	1.0	Y	0.5368203	107	0.465013224	93	0.4965566	99
Methyl Butyl Ketone (2-Hexanol	591-78-6	0.50	0.50	1.0	Y	0.4598035	92	0.432799764	87	0.5299716	106

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		EPA TO15		Prep Date:		01/30/12, 01/31/12, 02/		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		C					
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624					
MATRIX:		AIR		CSV Ref:		LOQ		RTX-624		RTX-624		RTX-624	
ANALYTE	CAS #	LOQ ppbv	Spike ppbv	Spike / LOQ Ratio	Pass	01/30/12, 01/31/12		01/30/12, 02/09/12, 02/28/12		01/31/12			
						Result ppbv	%R	Result ppbv	%R	Result ppbv	%R		
1,2,4-Trichlorobenzene	120-82-1	0.50	0.50	1.0	Y	0.3865497	77	0.443693854	89	0.3481276	70		
Naphthalene	91-20-3	0.50	0.50	1.0	Y	0.380915	76	0.427072059	85	0.3103585	62		
1,2,3-Trichloropropane	96-18-4	0.50	0.50	1.0	Y	0.5973531	119	0.49043631	98	0.5194116	104		
n-Decane	124-18-5	0.50	0.50	1.0	Y	0.625222	125	0.307285191	61	0.432654	87		
n-Octane	111-65-9	0.50	0.50	1.0	Y	0.6737594	135	0.448385812	90	0.4802081	96		
n-Pentane	109-66-0	0.50	0.50	1.0	Y	0.6811029	136	0.489728166	98	0.4541239	91		
Acrylonitrile	107-13-1	0.50	0.50	1.0	Y	0.5651999	113	0.466895501	93	0.4965948	99		
Propylene	115-07-1	5.0	5.0	1.0	Y	6.2890372	126	4.963429273	99	5.0779861	102		
Acetone	67-64-1	5.0	5.0	1.0	Y	6.8730918	138	4.868555067	98	6.127913	123		
Isopropyl alcohol	67-63-0	5.0	5.0	1.0	Y	5.7955138	116	4.748712087	95	5.8711771	118		
tert-Butyl alcohol	75-65-0	5.0	5.0	1.0	Y	5.7298763	115	4.769935009	96	5.8027565	116		
Vinyl acetate	108-05-4	5.0	5.0	1.0	Y	6.2197289	125	4.530989643	91	5.5677659	112		
Ethyl acetate	141-78-6	5.0	5.0	1.0	Y	5.1923032	104	4.050578521	81	5.2451261	105		
Tetrahydrofuran	109-99-9	5.0	5.0	1.0	Y	6.4020166	128	4.179536752	84	4.9814126	100		
1,4-Dioxane	123-91-1	5.0	5.0	1.0	Y	5.214428	104	4.519464281	91	5.2969506	106		
Acetonitrile	75-05-8	5.0	5.0	1.0	Y	6.3148979	127	5.280957546	106	5.0024665	100		
Acrolein	107-02-8	5.0	5.0	1.0	Y	5.9856251	120	4.506646391	90	6.2722431	126		
n-Dodecane	112-40-3	5.0	5.0	1.0	Y	6.5131796	131	2.645476656	53	4.6162814	93		
n-Undecane	1120-21-4	5.0	5.0	1.0	Y	7.0288046	141	5.340271543	107	4.2634973	85		
n-Butanol	71-36-3	5.0	5.0	1.0	Y	5.2636989	105	4.63588975	93	5.4638248	109		

Note: Pass = The %R on each instrument is within 50-150%

Method T015 Low Level - New Jersey

Volatile Organic Compounds - Low
level (GC/MS) by New Jersey Method
TO 15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-18629-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: wajh005.d
 Lab ID: LCS 200-62008/4 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	0.200	0.211	105	60-140	
1,1-Dichloroethene	0.200	0.215	107	60-140	
1,2-Dichloroethene, trans-	0.200	0.200	100	60-140	
1,1-Dichloroethane	0.200	0.207	103	60-140	
1,2-Dichloroethene, cis-	0.200	0.198 J	99	60-140	
1,1,1-Trichloroethane	0.200	0.210	105	60-140	
Carbon tetrachloride	0.200	0.215	107	60-140	
1,2-Dichloroethane	0.200	0.205	102	60-140	
Trichloroethene	0.200	0.208	104	60-140	
Tetrachloroethene	0.200	0.217	108	60-140	

Column to be used to flag recovery and RPD values

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-18629-1
 SDG No.: _____
 Lab File ID: wajh004.d Lab Sample ID: MB 200-62008/3
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: W.i Date Analyzed: 10/01/2013 11:20
 GC Column: RTX-624 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-62008/4	wajh005.d	10/01/2013 12:09
SG-092513-SGP-01	200-18629-1	wajh013.d	10/01/2013 18:42
AA-092513-SGP-01	200-18629-2	wajh014.d	10/01/2013 19:30

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-18629-1
 SDG No.: _____
 Lab File ID: waj001.d BFB Injection Date: 09/19/2013
 Instrument ID: W.i BFB Injection Time: 08:14
 Analysis Batch No.: 61561

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	14.3	
75	30.0 - 66.0% of mass 95	43.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.5	(0.5)1
174	50.0 - 120.0% of mass 95	108.3	
175	4.0 - 9.0 % of mass 174	7.7	(7.1)1
176	93.0 - 101.0% of mass 174	106.1	(98.0)1
177	5.0 - 9.0% of mass 176	7.0	(6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-61561/5	waj005.d	09/19/2013	11:27
	IC 200-61561/6	waj006.d	09/19/2013	12:18
	IC 200-61561/7	waj007.d	09/19/2013	13:07
	ICIS 200-61561/8	waj008.d	09/19/2013	13:55
	IC 200-61561/9	waj009.d	09/19/2013	14:43
	IC 200-61561/10	waj010.d	09/19/2013	15:32
	IC 200-61561/11	waj011.d	09/19/2013	16:21
	ICV 200-61561/14	waj014.d	09/19/2013	18:47

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-18629-1
 SDG No.: _____
 Lab File ID: wajh001.d BFB Injection Date: 10/01/2013
 Instrument ID: W.i BFB Injection Time: 08:50
 Analysis Batch No.: 62008

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	13.4	
75	30.0 - 66.0% of mass 95	42.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	7.1	
173	Less than 2.0% of mass 174	0.5	(0.4)1
174	50.0 - 120.0% of mass 95	114.6	
175	4.0 - 9.0 % of mass 174	8.1	(7.0)1
176	93.0 - 101.0% of mass 174	112.4	(98.1)1
177	5.0 - 9.0% of mass 176	7.3	(6.5)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-62008/2	wajh002.d	10/01/2013	09:41
	MB 200-62008/3	wajh004.d	10/01/2013	11:20
	LCS 200-62008/4	wajh005.d	10/01/2013	12:09
	LCS 200-62008/5	wajh006.d	10/01/2013	12:59
	LCS 200-62008/6	wajh007.d	10/01/2013	13:50
SG-092513-SGP-01	200-18629-1	wajh013.d	10/01/2013	18:42
AA-092513-SGP-01	200-18629-2	wajh014.d	10/01/2013	19:30
	CCVC 200-62008/14	wajh015.d	10/01/2013	20:19

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-18629-1
 SDG No.: _____
 Sample No.: ICIS 200-61561/8 Date Analyzed: 09/19/2013 13:55
 Instrument ID: W.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): waj008.d Heated Purge: (Y/N) N
 Calibration ID: 23396

	BCM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	671547	12.88	3224788	14.77	3031590	20.47
UPPER LIMIT	940166	13.21	4514703	15.10	4244226	20.80
LOWER LIMIT	402928	12.55	1934873	14.44	1818954	20.14
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-61561/14	680458	12.89	3284503	14.78	3057932	20.48

BCM = Bromochloromethane
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-18629-1
 SDG No.: _____
 Sample No.: CCVIS 200-62008/2 Date Analyzed: 10/01/2013 09:41
 Instrument ID: W.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): wajh002.d Heated Purge: (Y/N) N
 Calibration ID: 23396

	BCM		DFB		CBZ			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	694670	12.88	3299698	14.77	3066409	20.47		
UPPER LIMIT	972538	13.21	4619577	15.10	4292973	20.80		
LOWER LIMIT	416802	12.55	1979819	14.44	1839845	20.14		
LAB SAMPLE ID	CLIENT SAMPLE ID							
MB 200-62008/3			727471	12.88	3531084	14.78	3168257	20.47
LCS 200-62008/4			660794	12.88	3195949	14.77	2877150	20.47
LCS 200-62008/5			672871	12.88	3262681	14.77	2952678	20.47
LCS 200-62008/6			684417	12.88	3255317	14.77	3037484	20.47
200-18629-1	SG-092513-SGP-01		585737	12.90	2736234	14.78	2527194	20.47
200-18629-2	AA-092513-SGP-01		559173	12.89	2704493	14.78	2510054	20.48

BCM = Bromochloromethane
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-18629-1
 SDG No.: _____
 Client Sample ID: SG-092513-SGP-01 Lab Sample ID: 200-18629-1
 Matrix: Air Lab File ID: wajh013.d
 Analysis Method: TO15LL/NJ Date Collected: 09/25/2013 14:17
 Sample wt/vol: 20 (mL) Date Analyzed: 10/01/2013 18:42
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 62008 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	2.0	U	2.0	0.091
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.86
156-60-5	1,2-Dichloroethene, trans-	3.0		2.0	0.23
75-34-3	1,1-Dichloroethane	2.0	U	2.0	0.23
156-59-2	1,2-Dichloroethene, cis-	8.1		2.0	0.84
71-55-6	1,1,1-Trichloroethane	4.9		2.0	0.20
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.13
107-06-2	1,2-Dichloroethane	2.0	U	2.0	0.18
79-01-6	Trichloroethene	46		2.0	0.092
127-18-4	Tetrachloroethene	270		2.0	0.15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-18629-1
 SDG No.: _____
 Client Sample ID: AA-092513-SGP-01 Lab Sample ID: 200-18629-2
 Matrix: Air Lab File ID: wajh014.d
 Analysis Method: TO15LL/NJ Date Collected: 09/25/2013 14:17
 Sample wt/vol: 20 (mL) Date Analyzed: 10/01/2013 19:30
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 62008 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	2.0	U	2.0	0.091
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.86
156-60-5	1,2-Dichloroethene, trans-	2.0	U	2.0	0.23
75-34-3	1,1-Dichloroethane	2.0	U	2.0	0.23
156-59-2	1,2-Dichloroethene, cis-	2.0	U	2.0	0.84
71-55-6	1,1,1-Trichloroethane	2.0	U	2.0	0.20
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.13
107-06-2	1,2-Dichloroethane	2.0	U	2.0	0.18
79-01-6	Trichloroethene	2.0	U	2.0	0.092
127-18-4	Tetrachloroethene	2.0	U	2.0	0.15

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-18629-1 Analy Batch No.: 61561

SDG No.: _____

Instrument ID: W.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2013 11:27 Calibration End Date: 09/19/2013 16:21 Calibration ID: 23396

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-61561/5	waj005.d
Level 2	IC 200-61561/6	waj006.d
Level 3	IC 200-61561/7	waj007.d
Level 4	ICIS 200-61561/8	waj008.d
Level 5	IC 200-61561/9	waj009.d
Level 6	IC 200-61561/10	waj010.d
Level 7	IC 200-61561/11	waj011.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Dichlorodifluoromethane	2.8321	3.3761 2.5047	2.9926	2.8071	2.9387	Ave		2.9086			9.8		30.0				
1,2-Dichlorotetrafluoroethane	3.3624 3.1589	3.7843 2.7486	3.3431	3.1373	3.2857	Ave		3.2600			9.5		30.0				
Chloromethane	0.7693	1.0453 0.6929	0.8602	0.7804	0.8025	Ave		0.8251			14.6		30.0				
Vinyl chloride	1.1349 0.9590	1.2083 0.8891	1.0654	0.9767	1.0034	Ave		1.0338			10.6		30.0				
1,3-Butadiene	0.8291 0.6510	0.8625 0.6030	0.7383	0.6776	0.6892	Ave		0.7215			13.1		30.0				
Bromomethane	1.1431 0.9997	1.3449 0.9435	1.1141	1.0253	1.0692	Ave		1.0914			12.0		30.0				
Chloroethane	0.5808	0.6578 0.5216	0.6007	0.5685	0.5869	Ave		0.5860			7.6		30.0				
Vinyl bromide	1.2024 1.2930	1.3361 1.2017	1.2066	1.2071	1.3137	Ave		1.2515			4.8		30.0				
Trichlorofluoromethane	3.1064 3.0477	3.4569 2.7672	3.0450	2.9336	3.1352	Ave		3.0703			6.9		30.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	2.4677 2.4424	2.6912 2.2031	2.4240	2.3437	2.5075	Ave		2.4399			6.1		30.0				
1,1-Dichloroethene	1.1096 1.2053	1.2394 1.1209	1.1384	1.1322	1.2245	Ave		1.1672			4.6		30.0				
Acetone	1.1873	1.0660	1.4842	1.3904	1.3188	Ave		1.2894			12.8		30.0				
Carbon disulfide	3.2830	3.6377 2.9456	3.2985	3.2018	3.3724	Ave		3.2898			6.9		30.0				
Isopropanol	1.0032	0.8888	1.1666	1.0867	1.0963	Ave		1.0483			10.1		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-18629-1 Analy Batch No.: 61561

SDG No.: _____

Instrument ID: W.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2013 11:27 Calibration End Date: 09/19/2013 16:21 Calibration ID: 23396

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Allyl chloride	1.1919 1.0154	1.2248 0.9073	1.1065	1.0409	1.0719	Ave		1.0798			10.0		30.0				
Methylene Chloride	0.9445	1.3115 0.8442	1.0498	0.9636	0.9953	Ave		1.0181			15.6		30.0				
tert-Butyl alcohol	1.7177	1.5848	1.7562	1.7388	1.8042	Ave		1.7203			4.8		30.0				
Methyl tert-butyl ether	2.9794 3.2576	3.3645 2.9510	3.2075	3.1669	3.3570	Ave		3.1834			5.2		30.0				
1,2-Dichloroethene, trans-	1.5869 1.4938	1.7079 1.3313	1.5556	1.4909	1.5500	Ave		1.5309			7.5		30.0				
n-Hexane	1.6913 1.6822	1.8944 1.4837	1.7454	1.6819	1.7597	Ave		1.7055			7.2		30.0				
1,1-Dichloroethane	1.9629 1.8754	2.1680 1.6788	1.9477	1.8693	1.9550	Ave		1.9224			7.6		30.0				
1,2-Dichloroethene, cis-	1.3576 1.3711	1.4634 1.2414	1.3039	1.3115	1.3981	Ave		1.3496			5.3		30.0				
Methyl Ethyl Ketone	0.5944	1.0832 0.5238	0.5986	0.5973	0.6257	Ave		0.6705			30.6	*	30.0				
Tetrahydrofuran	0.2020	0.1824	0.2241	0.2128	0.2157	Ave		0.2074			7.7		30.0				
Chloroform	2.3746 2.3769	2.6007 2.1452	2.3698	2.3217	2.4455	Ave		2.3763			5.7		30.0				
Cyclohexane	0.3436 0.3805	0.3829 0.3389	0.3626	0.3696	0.3932	Ave		0.3673			5.5		30.0				
1,1,1-Trichloroethane	0.5058 0.5416	0.5543 0.4935	0.5215	0.5242	0.5574	Ave		0.5284			4.6		30.0				
Carbon tetrachloride	0.5000 0.6067	0.5624 0.5617	0.5485	0.5668	0.6157	Ave		0.5660			6.8		30.0				
2,2,4-Trimethylpentane	1.0504 1.0602	1.1790 0.9085	1.1123	1.0930	1.1261	Ave		1.0757			7.9		30.0				
Benzene	0.7958 0.7878	0.8460 0.7007	0.7781	0.7783	0.8211	Ave		0.7868			5.8		30.0				
1,2-Dichloroethane	0.2891 0.2811	0.3135 0.2587	0.2887	0.2825	0.2933	Ave		0.2867			5.7		30.0				
n-Heptane	0.3682 0.3358	0.5434 0.2883	0.3756	0.3578	0.3632	Ave		0.3760			21.1		30.0				
Trichloroethene	0.3512 0.3699	0.3765 0.3389	0.3510	0.3570	0.3811	Ave		0.3608			4.3		30.0				
1,2-Dichloropropane	0.2530 0.2613	0.2870 0.2380	0.2619	0.2597	0.2732	Ave		0.2620			5.9		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-18629-1 Analy Batch No.: 61561

SDG No.: _____

Instrument ID: W.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2013 11:27 Calibration End Date: 09/19/2013 16:21 Calibration ID: 23396

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methyl methacrylate	0.2783	0.2437 0.2579	0.2587	0.2676	0.2858	Ave		0.2653			5.7		30.0				
1,4-Dioxane	0.1234	0.1150	0.1241	0.1252	0.1291	Ave		0.1234			4.2		30.0				
Bromodichloromethane	0.4518 0.5428	0.5244 0.4964	0.5193	0.5250	0.5600	Ave		0.5171			6.7		30.0				
1,3-Dichloropropene, cis-	0.3399 0.4295	0.3869 0.3990	0.4015	0.4123	0.4420	Ave		0.4016			8.2		30.0				
Methyl isobutyl ketone	0.4181	0.4412 0.3711	0.4546	0.4382	0.4464	Ave		0.4283			7.1		30.0				
Toluene	0.6671 0.6637	0.7139 0.5542	0.6697	0.6690	0.6956	Ave		0.6619			7.7		30.0				
1,3-Dichloropropene, trans-	0.3262 0.4342	0.3814 0.4049	0.3969	0.4148	0.4440	Ave		0.4003			9.8		30.0				
1,1,2-Trichloroethane	0.2898 0.3098	0.3185 0.2858	0.2991	0.3000	0.3164	Ave		0.3028			4.2		30.0				
Tetrachloroethene	0.6604 0.7758	0.7351 0.6999	0.6883	0.7198	0.7822	Ave		0.7231			6.2		30.0				
Dibromochloromethane	0.5154 0.7480	0.5869 0.6858	0.6489	0.6913	0.7537	Ave		0.6614			13.0		30.0				
1,2-Dibromoethane	0.4914 0.6269	0.5736 0.5783	0.5674	0.5905	0.6350	Ave		0.5805			8.1		30.0				
Chlorobenzene	0.9392 0.9870	1.0280 0.8709	0.9438	0.9569	1.0137	Ave		0.9628			5.5		30.0				
Ethylbenzene	1.3241 1.4083	1.4760 1.1720	1.4214	1.4116	1.4740	Ave		1.3839			7.7		30.0				
m-Xylene & p-Xylene	0.5370 0.6001	0.6201 0.4708	0.6171	0.6169	0.6386	Ave		0.5858			10.3		30.0				
o-Xylene	0.5139 0.6227	0.6027 0.5382	0.5956	0.6083	0.6426	Ave		0.5891			7.8		30.0				
Styrene	0.6387 0.9629	0.7943 0.8229	0.9028	0.9312	0.9944	Ave		0.8639			14.2		30.0				
Bromoform	0.4761 0.8829	0.5728 0.7695	0.7273	0.8012	0.8860	Ave		0.7308			21.2		30.0				
1,1,2,2-Tetrachloroethane	0.6857 0.7877	0.8069 0.6720	0.7741	0.7730	0.8112	Ave		0.7587			7.5		30.0				
4-Ethyltoluene	1.3868 1.6572	1.6034 1.2322	1.6971	1.7162	1.7673	Ave		1.5800			12.4		30.0				
2-Chlorotoluene	1.1638 1.3417	1.3359 1.0851	1.3522	1.3480	1.4011	Ave		1.2897			9.1		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
 AIR - GC/MS VOA INITIAL CALIBRATION DATA
 INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-18629-1 Analy Batch No.: 61561

SDG No.: _____

Instrument ID: W.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2013 11:27 Calibration End Date: 09/19/2013 16:21 Calibration ID: 23396

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
1,3,5-Trimethylbenzene	1.2046 1.4338	1.4119 1.1414	1.4399	1.4525	1.5107	Ave		1.3707			10.2		30.0				
1,2,4-Trimethylbenzene	1.1463 1.4203	1.3414 1.1534	1.4055	1.4328	1.5077	Ave		1.3439			10.5		30.0				
1,3-Dichlorobenzene	0.7564 1.1447	0.8756 0.9972	0.9811	1.0699	1.1774	Ave		1.0003			14.9		30.0				
1,4-Dichlorobenzene	0.6963 1.1108	0.7917 0.9848	0.9198	1.0271	1.1380	Ave		0.9526			17.1		30.0				
1,2-Dichlorobenzene	0.7410 1.0730	0.8453 0.9696	0.9419	1.0106	1.1124	Ave		0.9563			13.5		30.0				
1,2,4-Trichlorobenzene	0.5559	0.3505 0.7045	0.4160	0.5718	0.6914	Ave		0.5483			26.1		30.0				
Hexachlorobutadiene	0.6645 0.9238	0.7776 0.8892	0.8194	0.8934	1.0098	Ave		0.8540			13.1		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-18629-1 Analy Batch No.: 61561

SDG No.: _____

Instrument ID: W.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2013 11:27 Calibration End Date: 09/19/2013 16:21 Calibration ID: 23396

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-61561/5	waj005.d
Level 2	IC 200-61561/6	waj006.d
Level 3	IC 200-61561/7	waj007.d
Level 4	ICIS 200-61561/8	waj008.d
Level 5	IC 200-61561/9	waj009.d
Level 6	IC 200-61561/10	waj010.d
Level 7	IC 200-61561/11	waj011.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	BCM	Ave	3757764	89005 7118971	902457	1885108	2885821	20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichlorotetrafluoroethane	BCM	Ave	38089 4191302	99766 7812064	1008159	2106813	3226588	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chloromethane	BCM	Ave	1020783	27557 1969491	259392	524046	788021	20.0	0.500 40.0	5.00	10.0	15.0
Vinyl chloride	BCM	Ave	12856 1272449	31854 2527083	321272	655911	985341	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Butadiene	BCM	Ave	9392 863810	22737 1713846	222646	455054	676813	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromomethane	BCM	Ave	12949 1326412	35456 2681728	335965	688530	1049988	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chloroethane	BCM	Ave	770582	17342 1482423	181143	381760	576390	20.0	0.500 40.0	5.00	10.0	15.0
Vinyl bromide	BCM	Ave	13621 1715591	35224 3415435	363877	810600	1290070	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Trichlorofluoromethane	BCM	Ave	35189 4043752	91133 7865176	918259	1970033	3078787	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2-Trichloro-1,2,2-trifluoroethane	BCM	Ave	27954 3240661	70947 6261822	730998	1573889	2462365	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1-Dichloroethene	BCM	Ave	12569 1599281	32674 3185967	343291	760325	1202435	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acetone	BCM	Ave	1575394	3029946	447590	933708	1295099	20.0	40.0	5.00	10.0	15.0
Carbon disulfide	BCM	Ave	4355945	95901 8372200	994688	2150153	3311780	20.0	0.500 40.0	5.00	10.0	15.0
Isopropanol	BCM	Ave	1331029	2526078	351812	729764	1076595	20.0	40.0	5.00	10.0	15.0
Allyl chloride	BCM	Ave	13502 1347282	32288 2578807	333689	698989	1052614	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-18629-1 Analy Batch No.: 61561

SDG No.: _____

Instrument ID: W.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2013 11:27 Calibration End Date: 09/19/2013 16:21 Calibration ID: 23396

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methylene Chloride	BCM	Ave		34574	316567	647092	977360		0.500	5.00	10.0	15.0
			1253193	2399292				20.0	40.0			
tert-Butyl alcohol	BCM	Ave			529588	1167708	1771755			5.00	10.0	15.0
			2279105	4504457				20.0	40.0			
Methyl tert-butyl ether	BCM	Ave			967260	2126720	3296644	0.200	0.500	5.00	10.0	15.0
			33750	88698				20.0	40.0			
1,2-Dichloroethene, trans-	BCM	Ave			469108	1001212	1522168	0.200	0.500	5.00	10.0	15.0
			17976	45024				20.0	40.0			
n-Hexane	BCM	Ave			526337	1129484	1728081	0.200	0.500	5.00	10.0	15.0
			19159	49943				20.0	40.0			
1,1-Dichloroethane	BCM	Ave			587355	1255312	1919802	0.200	0.500	5.00	10.0	15.0
			22235	57155				20.0	40.0			
1,2-Dichloroethene, cis-	BCM	Ave			393212	880706	1372952	0.200	0.500	5.00	10.0	15.0
			2488344	4771424				20.0	40.0			
Methyl Ethyl Ketone	BCM	Ave			180509	401131	614483	0.200	0.500	5.00	10.0	15.0
			15379	38579				20.0	40.0			
Tetrahydrofuran	DFB	Ave			330354	686144	1013635			5.00	10.0	15.0
			788625	1488847				20.0	40.0			
Chloroform	BCM	Ave			714651	1559100	2401505	0.200	0.500	5.00	10.0	15.0
			1284688	2445084				20.0	40.0			
Cyclohexane	DFB	Ave			534582	1192009	1847861	0.200	0.500	5.00	10.0	15.0
			26899	68563				20.0	40.0			
1,1,1-Trichloroethane	DFB	Ave			768838	1690549	2619570	0.200	0.500	5.00	10.0	15.0
			3153807	6097069				20.0	40.0			
Carbon tetrachloride	DFB	Ave			808551	1827909	2893090	0.200	0.500	5.00	10.0	15.0
			19012	49922				20.0	40.0			
2,2,4-Trimethylpentane	DFB	Ave			1639783	3524599	5291978	0.200	0.500	5.00	10.0	15.0
			2420113	4543743				20.0	40.0			
Benzene	DFB	Ave			1147129	2509911	3858548	0.200	0.500	5.00	10.0	15.0
			27989	72273				20.0	40.0			
1,2-Dichloroethane	DFB	Ave			425664	911012	1378048	0.200	0.500	5.00	10.0	15.0
			3444893	6616368				20.0	40.0			
n-Heptane	DFB	Ave			553683	1153883	1706904	0.200	0.500	5.00	10.0	15.0
			27666	73323				20.0	40.0			
Trichloroethene	DFB	Ave			517464	1151401	1791060	0.200	0.500	5.00	10.0	15.0
			3859215	7530588				20.0	40.0			
1,2-Dichloropropane	DFB	Ave			386050	837433	1283999	0.200	0.500	5.00	10.0	15.0
			58124	153723				20.0	40.0			
Methyl methacrylate	DFB	Ave			381353	863033	1343019	0.200	0.500	5.00	10.0	15.0
			6743669	12179615				20.0	40.0			
1,4-Dioxane	DFB	Ave			182998	403609	606832			5.00	10.0	15.0
			44036	110309				20.0	40.0			
			5010943	9393204				20.0	40.0			
			15999	40879				20.0	40.0			
			1788253	3468282				20.0	40.0			
			20377	70852				20.0	40.0			
			2135928	3864308				20.0	40.0			
			19433	49090				20.0	40.0			
			2352518	4542848				20.0	40.0			
			13999	37426				20.0	40.0			
			1661875	3190037				20.0	40.0			
			1770002	3457974				20.0	40.0			
			784887	1541751				20.0	40.0			

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-18629-1 Analy Batch No.: 61561

SDG No.: _____

Instrument ID: W.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2013 11:27 Calibration End Date: 09/19/2013 16:21 Calibration ID: 23396

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Bromodichloromethane	DFB	Ave	25002 3452814	68373 6654978	765546	1692949	2631357	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichloropropene, cis-	DFB	Ave	18809 2732160	50442 5349348	591862	1329676	2076934	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl isobutyl ketone	DFB	Ave	2659514 4974412	57524	670184	1413207	2097892	20.0	0.500 40.0	5.00	10.0	15.0
Toluene	CBZ	Ave	33696 3934223	84774 6882136	923159	2027991	3067587	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichloropropene, trans-	DFB	Ave	18053 2761626	49722 5428460	585156	1337802	2086315	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2-Trichloroethane	CBZ	Ave	14637 1836142	37827 3548409	412352	909620	1395445	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Tetrachloroethene	CBZ	Ave	33362 4598687	87297 8690680	948829	2182091	3449453	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Dibromochloromethane	CBZ	Ave	26034 4433813	69696 8516522	894455	2095733	3324122	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dibromoethane	CBZ	Ave	24823 3715986	68121 7181001	782127	1790262	2800574	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chlorobenzene	CBZ	Ave	47445 5850574	122080 10814155	1300974	2901010	4470815	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Ethylbenzene	CBZ	Ave	66888 8347972	175276 14553311	1959402	4279361	6500617	0.200 20.0	0.500 40.0	5.00	10.0	15.0
m-Xylene & p-Xylene	CBZ	Ave	54253 7114261	147273 11692570	1701447	3740204	5632789	0.400 40.0	1.00 80.0	10.0	20.0	30.0
o-Xylene	CBZ	Ave	25959 3690853	71576 6683502	821003	1844040	2834071	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Styrene	CBZ	Ave	32265 5707867	94325 10218167	1244539	2823000	4385354	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromoform	CBZ	Ave	24048 5233276	68017 9555418	1002544	2428804	3907531	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	34640 4669135	95818 8344976	1067029	2343546	3577598	0.200 20.0	0.500 40.0	5.00	10.0	15.0
4-Ethyltoluene	CBZ	Ave	70056 9823180	190404 15300917	2339462	5202930	7794250	0.200 20.0	0.500 40.0	5.00	10.0	15.0
2-Chlorotoluene	CBZ	Ave	58790 7952797	158640 13474803	1864029	4086480	6179188	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3,5-Trimethylbenzene	CBZ	Ave	60852 8498937	167671 14172777	1984887	4403302	6662654	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2,4-Trimethylbenzene	CBZ	Ave	57903 8419105	159294 14321860	1937522	4343547	6649409	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichlorobenzene	CBZ	Ave	38208 6785245	103982 12382179	1352450	3243478	5192481	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
 AIR - GC/MS VOA INITIAL CALIBRATION DATA
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-18629-1 Analy Batch No.: 61561

SDG No.: _____

Instrument ID: W.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/19/2013 11:27 Calibration End Date: 09/19/2013 16:21 Calibration ID: 23396

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
1,4-Dichlorobenzene	CBZ	Ave	35173 6584596	94022 12229095	1267861	3113737	5018780	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichlorobenzene	CBZ	Ave	37432 6360097	100379 12040269	1298383	3063777	4906022	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2,4-Trichlorobenzene	CBZ	Ave	3295083	41622 8748718	573413	1733467	3049076	20.0	0.500 40.0	5.00	10.0	15.0
Hexachlorobutadiene	CBZ	Ave	33565 5475616	92347 11042218	1129478	2708565	4453305	0.200 20.0	0.500 40.0	5.00	10.0	15.0

Curve Type Legend:

Ave = Average ISTD

FORM III
AIR - GC/MS VOA INITIAL CALIBRATION VERIFICATION RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-18629-1
 SDG No.: _____
 Matrix: Air Level: Low Lab File ID: waj014.d
 Lab ID: ICV 200-61561/14 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	ICV CONCENTRATION (ppb v/v)	ICV % REC	QC LIMITS REC	#
Vinyl chloride	10.0	10.5	105	70-130	
1,1-Dichloroethene	10.0	12.2	122	70-130	
1,2-Dichloroethene, trans-	10.0	10.6	106	70-130	
1,1-Dichloroethane	10.0	10.6	106	70-130	
1,2-Dichloroethene, cis-	10.0	11.2	112	70-130	
1,1,1-Trichloroethane	10.0	10.9	109	70-130	
Carbon tetrachloride	10.0	11.1	111	70-130	
1,2-Dichloroethane	10.0	10.5	105	70-130	
Trichloroethene	10.0	10.8	108	70-130	
Tetrachloroethene	10.0	10.9	109	70-130	

Column to be used to flag recovery and RPD values

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-18629-1
 SDG No.: _____
 Lab Sample ID: CCVIS 200-62008/2 Calibration Date: 10/01/2013 09:41
 Instrument ID: W.i Calib Start Date: 09/19/2013 11:27
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 09/19/2013 16:21
 Lab File ID: wajh002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	2.909	3.158		10.9	10.0	8.6	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.260	3.492		10.7	10.0	7.1	30.0
Chloromethane	Ave	0.8251	0.8705		10.5	10.0	5.5	30.0
Vinyl chloride	Ave	1.034	1.098		10.6	10.0	6.2	30.0
1,3-Butadiene	Ave	0.7215	0.7587		10.5	10.0	5.1	30.0
Bromomethane	Ave	1.091	1.180		10.8	10.0	8.1	30.0
Chloroethane	Ave	0.5860	0.6174		10.5	10.0	5.4	30.0
Vinyl bromide	Ave	1.252	1.315		10.5	10.0	5.1	30.0
Trichlorofluoromethane	Ave	3.070	3.235		10.5	10.0	5.4	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.440	2.551		10.5	10.0	4.6	30.0
1,1-Dichloroethene	Ave	1.167	1.238		10.6	10.0	6.1	30.0
Acetone	Ave	1.289	1.593		12.4	10.0	23.6	30.0
Carbon disulfide	Ave	3.290	3.444		10.5	10.0	4.7	30.0
Isopropanol	Ave	1.048	1.110		10.6	10.0	5.9	30.0
Allyl chloride	Ave	1.080	1.092		10.1	10.0	1.2	30.0
Methylene Chloride	Ave	1.018	1.038		10.2	10.0	1.9	30.0
tert-Butyl alcohol	Ave	1.720	1.809		10.5	10.0	5.1	30.0
Methyl tert-butyl ether	Ave	3.183	3.348		10.5	10.0	5.2	30.0
1,2-Dichloroethene, trans-	Ave	1.531	1.596		10.4	10.0	4.3	30.0
n-Hexane	Ave	1.706	1.783		10.5	10.0	4.5	30.0
1,1-Dichloroethane	Ave	1.922	2.002		10.4	10.0	4.1	30.0
1,2-Dichloroethene, cis-	Ave	1.350	1.403		10.4	10.0	4.0	30.0
Methyl Ethyl Ketone	Ave	0.6705	0.6339		9.45	10.0	-5.5	30.0
Tetrahydrofuran	Ave	0.2074	0.2247		10.8	10.0	8.4	30.0
Chloroform	Ave	2.376	2.493		10.5	10.0	4.9	30.0
Cyclohexane	Ave	0.3673	0.3986		10.8	10.0	8.5	30.0
1,1,1-Trichloroethane	Ave	0.5284	0.5730		10.8	10.0	8.5	30.0
Carbon tetrachloride	Ave	0.5660	0.6347		11.2	10.0	12.2	30.0
2,2,4-Trimethylpentane	Ave	1.076	1.160		10.8	10.0	7.9	30.0
Benzene	Ave	0.7868	0.8337		10.6	10.0	6.0	30.0
1,2-Dichloroethane	Ave	0.2867	0.3043		10.6	10.0	6.1	30.0
n-Heptane	Ave	0.3760	0.3786		10.1	10.0	0.7	30.0
Trichloroethene	Ave	0.3608	0.3841		10.6	10.0	6.4	30.0
1,2-Dichloropropane	Ave	0.2620	0.2785		10.6	10.0	6.3	30.0
Methyl methacrylate	Ave	0.2653	0.2791		10.5	10.0	5.2	30.0
1,4-Dioxane	Ave	0.1234	0.1311		10.6	10.0	6.3	30.0
Bromodichloromethane	Ave	0.5171	0.5736		11.1	10.0	10.9	30.0
1,3-Dichloropropene, cis-	Ave	0.4016	0.4411		11.0	10.0	9.8	30.0
Methyl isobutyl ketone	Ave	0.4283	0.4564		10.7	10.0	6.6	30.0
Toluene	Ave	0.6619	0.7247		10.9	10.0	9.5	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-18629-1
 SDG No.: _____
 Lab Sample ID: CCVIS 200-62008/2 Calibration Date: 10/01/2013 09:41
 Instrument ID: W.i Calib Start Date: 09/19/2013 11:27
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 09/19/2013 16:21
 Lab File ID: wajh002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropene, trans-	Ave	0.4003	0.4534		11.3	10.0	13.3	30.0
1,1,2-Trichloroethane	Ave	0.3028	0.3265		10.8	10.0	7.8	30.0
Tetrachloroethene	Ave	0.7231	0.7966		11.0	10.0	10.2	30.0
Dibromochloromethane	Ave	0.6614	0.7733		11.7	10.0	16.9	30.0
1,2-Dibromoethane	Ave	0.5805	0.6450		11.1	10.0	11.1	30.0
Chlorobenzene	Ave	0.9628	1.040		10.8	10.0	8.0	30.0
Ethylbenzene	Ave	1.384	1.521		11.0	10.0	9.9	30.0
m-Xylene & p-Xylene	Ave	0.5858	0.6719		22.9	20.0	14.7	30.0
o-Xylene	Ave	0.5891	0.6544		11.1	10.0	11.1	30.0
Styrene	Ave	0.8639	0.9860		11.4	10.0	14.1	30.0
Bromoform	Ave	0.7308	0.9143		12.5	10.0	25.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7587	0.8321		11.0	10.0	9.7	30.0
4-Ethyltoluene	Ave	1.580	1.841		11.6	10.0	16.5	30.0
2-Chlorotoluene	Ave	1.290	1.447		11.2	10.0	12.2	30.0
1,3,5-Trimethylbenzene	Ave	1.371	1.546		11.3	10.0	12.8	30.0
1,2,4-Trimethylbenzene	Ave	1.344	1.524		11.3	10.0	13.4	30.0
1,3-Dichlorobenzene	Ave	1.000	1.172		11.7	10.0	17.1	30.0
1,4-Dichlorobenzene	Ave	0.9526	1.119		11.7	10.0	17.5	30.0
1,2-Dichlorobenzene	Ave	0.9563	1.094		11.4	10.0	14.4	30.0
1,2,4-Trichlorobenzene	Ave	0.5483	0.5918		10.8	10.0	7.9	30.0
Hexachlorobutadiene	Ave	0.8540	1.004		11.8	10.0	17.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-18629-1
 SDG No.: _____
 Lab Sample ID: CCVC 200-62008/14 Calibration Date: 10/01/2013 20:19
 Instrument ID: W.i Calib Start Date: 09/19/2013 11:27
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 09/19/2013 16:21
 Lab File ID: wajh015.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	2.909	3.071		10.6	10.0	5.6	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.260	3.416		10.5	10.0	4.8	30.0
Chloromethane	Ave	0.8251	0.8543		10.4	10.0	3.5	30.0
Vinyl chloride	Ave	1.034	1.107		10.7	10.0	7.1	30.0
1,3-Butadiene	Ave	0.7215	0.7761		10.8	10.0	7.6	30.0
Bromomethane	Ave	1.091	1.202		11.0	10.0	10.1	30.0
Chloroethane	Ave	0.5860	0.6031		10.3	10.0	2.9	30.0
Vinyl bromide	Ave	1.252	1.247		9.97	10.0	-0.3	30.0
Trichlorofluoromethane	Ave	3.070	3.128		10.2	10.0	1.9	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.440	2.479		10.2	10.0	1.6	30.0
1,1-Dichloroethene	Ave	1.167	1.184		10.1	10.0	1.4	30.0
Acetone	Ave	1.289	1.571		12.2	10.0	21.8	30.0
Carbon disulfide	Ave	3.290	3.341		10.2	10.0	1.5	30.0
Isopropanol	Ave	1.048	1.125		10.7	10.0	7.3	30.0
Allyl chloride	Ave	1.080	1.063		9.84	10.0	-1.6	30.0
Methylene Chloride	Ave	1.018	1.027		10.1	10.0	0.9	30.0
tert-Butyl alcohol	Ave	1.720	1.810		10.5	10.0	5.2	30.0
Methyl tert-butyl ether	Ave	3.183	3.195		10.0	10.0	0.4	30.0
1,2-Dichloroethene, trans-	Ave	1.531	1.554		10.1	10.0	1.5	30.0
n-Hexane	Ave	1.706	1.715		10.1	10.0	0.6	30.0
1,1-Dichloroethane	Ave	1.922	1.942		10.1	10.0	1.0	30.0
1,2-Dichloroethene, cis-	Ave	1.350	1.328		9.84	10.0	-1.6	30.0
Methyl Ethyl Ketone	Ave	0.6705	0.6076		9.06	10.0	-9.4	30.0
Tetrahydrofuran	Ave	0.2074	0.2194		10.6	10.0	5.8	30.0
Chloroform	Ave	2.376	2.405		10.1	10.0	1.2	30.0
Cyclohexane	Ave	0.3673	0.3781		10.3	10.0	2.9	30.0
1,1,1-Trichloroethane	Ave	0.5284	0.5510		10.4	10.0	4.3	30.0
Carbon tetrachloride	Ave	0.5660	0.6031		10.7	10.0	6.6	30.0
2,2,4-Trimethylpentane	Ave	1.076	1.117		10.4	10.0	3.9	30.0
Benzene	Ave	0.7868	0.8057		10.2	10.0	2.4	30.0
1,2-Dichloroethane	Ave	0.2867	0.2973		10.4	10.0	3.7	30.0
n-Heptane	Ave	0.3760	0.3735		9.93	10.0	-0.7	30.0
Trichloroethene	Ave	0.3608	0.3678		10.2	10.0	1.9	30.0
1,2-Dichloropropane	Ave	0.2620	0.2694		10.3	10.0	2.8	30.0
Methyl methacrylate	Ave	0.2653	0.2694		10.2	10.0	1.5	30.0
1,4-Dioxane	Ave	0.1234	0.1263		10.2	10.0	2.4	30.0
Bromodichloromethane	Ave	0.5171	0.5547		10.7	10.0	7.3	30.0
1,3-Dichloropropene, cis-	Ave	0.4016	0.4250		10.6	10.0	5.8	30.0
Methyl isobutyl ketone	Ave	0.4283	0.4507		10.5	10.0	5.2	30.0
Toluene	Ave	0.6619	0.6907		10.4	10.0	4.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-18629-1
 SDG No.: _____
 Lab Sample ID: CCVC 200-62008/14 Calibration Date: 10/01/2013 20:19
 Instrument ID: W.i Calib Start Date: 09/19/2013 11:27
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 09/19/2013 16:21
 Lab File ID: wajh015.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropene, trans-	Ave	0.4003	0.4346		10.9	10.0	8.6	30.0
1,1,2-Trichloroethane	Ave	0.3028	0.3123		10.3	10.0	3.2	30.0
Tetrachloroethene	Ave	0.7231	0.7359		10.2	10.0	1.8	30.0
Dibromochloromethane	Ave	0.6614	0.7283		11.0	10.0	10.1	30.0
1,2-Dibromoethane	Ave	0.5805	0.6092		10.5	10.0	5.0	30.0
Chlorobenzene	Ave	0.9628	0.9895		10.3	10.0	2.8	30.0
Ethylbenzene	Ave	1.384	1.459		10.5	10.0	5.4	30.0
m-Xylene & p-Xylene	Ave	0.5858	0.6470		22.1	20.0	10.4	30.0
o-Xylene	Ave	0.5891	0.6312		10.7	10.0	7.1	30.0
Styrene	Ave	0.8639	0.9476		11.0	10.0	9.7	30.0
Bromoform	Ave	0.7308	0.8645		11.8	10.0	18.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7587	0.8121		10.7	10.0	7.0	30.0
4-Ethyltoluene	Ave	1.580	1.789		11.3	10.0	13.2	30.0
2-Chlorotoluene	Ave	1.290	1.413		11.0	10.0	9.5	30.0
1,3,5-Trimethylbenzene	Ave	1.371	1.507		11.0	10.0	9.9	30.0
1,2,4-Trimethylbenzene	Ave	1.344	1.493		11.1	10.0	11.1	30.0
1,3-Dichlorobenzene	Ave	1.000	1.125		11.2	10.0	12.5	30.0
1,4-Dichlorobenzene	Ave	0.9526	1.078		11.3	10.0	13.2	30.0
1,2-Dichlorobenzene	Ave	0.9563	1.068		11.2	10.0	11.7	30.0
1,2,4-Trichlorobenzene	Ave	0.5483	0.5991		10.9	10.0	9.3	30.0
Hexachlorobutadiene	Ave	0.8540	0.9276		10.9	10.0	8.6	30.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-18629-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-62008/3
 Matrix: Air Lab File ID: wajh004.d
 Analysis Method: TO15LL/NJ Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 10/01/2013 11:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 62008 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.20	U	0.20	0.0091
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.086
156-60-5	1,2-Dichloroethene, trans-	0.20	U	0.20	0.023
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.023
156-59-2	1,2-Dichloroethene, cis-	0.20	U	0.20	0.084
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.020
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.013
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.018
79-01-6	Trichloroethene	0.20	U	0.20	0.0092
127-18-4	Tetrachloroethene	0.20	U	0.20	0.015

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-18629-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-62008/4
 Matrix: Air Lab File ID: wajh005.d
 Analysis Method: TO15LL/NJ Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 10/01/2013 12:09
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 62008 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.211		0.20	0.0091
75-35-4	1,1-Dichloroethene	0.215		0.20	0.086
156-60-5	1,2-Dichloroethene, trans-	0.200		0.20	0.023
75-34-3	1,1-Dichloroethane	0.207		0.20	0.023
156-59-2	1,2-Dichloroethene, cis-	0.198	J	0.20	0.084
71-55-6	1,1,1-Trichloroethane	0.210		0.20	0.020
56-23-5	Carbon tetrachloride	0.215		0.20	0.013
107-06-2	1,2-Dichloroethane	0.205		0.20	0.018
79-01-6	Trichloroethene	0.208		0.20	0.0092
127-18-4	Tetrachloroethene	0.217		0.20	0.015

GC/MS Air Instrument Run Log

Sequence		Standard: Traceability		Instrument Information	
Target Batch ID: WAJ	Start Date: 9/19/13	Time: 0814	ISTD Container ID: 462405	Instrument ID: W	
Test Method: T015	End Date: 9/20/13	Time: 0814	CCV Container ID: See comments	Instrument: 5975B	
ICAL Date: 9/19/13			ICV LCS Container ID: See comments	Column Type: RTX-624	
Analyst/Supervisor Signature(s): <i>Insert signature when specified as project requirement. Otherwise, leave this section blank.</i>					

Sequence Information				Individual Sample Review				Comments			
Injection Time	GC/MS File Name	Summa Can ID	TALS Sample ID	Dilution Factor	Inlet #	Volume (mL)	Operator		Internal Std.	Result Conc.	Primary Anal.
0814	WAJ 01	N/A	BES	N/A	1	200	MD	N/A	✓	PAD	
0902	02	4633	VIBLK		1	200		✓	✓		
0951	03				2	40		✓	✓		
1039	04	5466	IC-08		2	200		✓	✓		554202
1127	05	5466	-01		3	200		✓	✓		
1218	06	5432	-02		4	200		✓	✓		554197
1307	07	5015	-03		5	200		✓	✓		554195
1355	08	5437	ICIS-04		6	200		✓	✓		554194
1443	09	3155	IC-05		7	200		✓	✓		531964
1532	10	2575	-06		8	200		✓	✓		554065
1621	11	5406	-07		1	200		✓	✓		554064
1709	12	4633	VIBLK		1	200		✓	✓		
1758	13				1	200		✓	✓		
1847	14	4548	ICV		9	200		✓	✓		552802
1935	15	4633	VIBLK		1	200		✓	✓		
2024	16	4548	LCS		9	200		✓	✓		
2113	17	4633	VIBLK		1	200		✓	✓		

PAD 9/20/13

Legend: C=Complete • R=Reanalyze • ↑ = High • ↓ = Low • ✓ = Reviewed and Acceptable

GC/MS Air Instrument Run Log

Sequence		Standard Traceability				Instrument Information				
Target Batch ID: WASH	Start Date: 10/11/13	Time: 0850	ISTD Container ID: 462405	Instrument ID: W						
Test Method: TO15/MJ-LL	End Date: 10/21/13	Time: 0850	CCV Container ID: 554194	Instrument: 5975B						
ICAL Date: 61437 / 61561			ICVLCs Container ID: <i>see comment</i>	Column Type: RTX-624						
Analyst / Supervisor Signature(s): <i>Insert signature when specified as project requirement. Otherwise leave this section blank.</i>										
Ryan Hamming William DeJonghus Paul Daigle Paul A. PAA										
Injection Time		Sequence Information		Individual Sample Review		Comments				
GC/MS File Name	Summa Can ID	TALS Sample ID	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	
0850 WASH001		BFB	NA	1	NA	WJM	M	NA	WJD	AG
0941	5437	CCUS		2	200					552802 AG
1120	4548	LCB		3						
1209	4633	MRB		4						
1259	5466	02RLCS		5						554202 AG
1350	5432	015RLCS		6						554197 M+
1470	5015	5.0RLCS		7						554195 C
1528	5047	18572-4	1	8	200	WJM			PAD	C Tics
1617	4486	-5	10	9	80					CONF 4.00 & Tics
1705	4486	-6	40	10	20					L C Tics
1753	4644	-8	10	11	20					C Tics
1842	4966	-7	10	12	20					C Tics
1930	4260	18629-1	10	13	20					C
2019	4954	-2	10	14	20					C
2110	5437	CCUC	NA	15	200	WJM				AG
	5437	CCUC		16	200					not needed
	4633	VIBLK		17	1					
	3271	18687-1	4	18	200	PAD				
	2639	-2	1	19	50					
		18681-1	1	20	200					
		-2	1	21	200					
		-3	1	22	200					
		-4	1	23	200					
		-5	4	24	50					
		-6	1	25	200					
		-7	1	26	200					
		-8	1	27	200					
		-9	1	28	200					
		-10	1	29	200					

Legend: C=Complete • R=Reanalyze • ↑ = High • ↓ = Low • ✓ = Reviewed and Acceptable

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-18629-1

SDG No.: _____

Instrument ID: W.i Start Date: 09/19/2013 08:14

Analysis Batch Number: 61561 End Date: 09/19/2013 21:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-61561/1		09/19/2013 08:14	1	waj001.d	RTX-624 0.32 (mm)
VIBLK 200-61561/2		09/19/2013 09:02	1		RTX-624 0.32 (mm)
VIBLK 200-61561/3		09/19/2013 09:51	1		RTX-624 0.32 (mm)
ZZZZZ		09/19/2013 10:39	1		RTX-624 0.32 (mm)
IC 200-61561/5		09/19/2013 11:27	1	waj005.d	RTX-624 0.32 (mm)
IC 200-61561/6		09/19/2013 12:18	1	waj006.d	RTX-624 0.32 (mm)
IC 200-61561/7		09/19/2013 13:07	1	waj007.d	RTX-624 0.32 (mm)
ICIS 200-61561/8		09/19/2013 13:55	1	waj008.d	RTX-624 0.32 (mm)
IC 200-61561/9		09/19/2013 14:43	1	waj009.d	RTX-624 0.32 (mm)
IC 200-61561/10		09/19/2013 15:32	1	waj010.d	RTX-624 0.32 (mm)
IC 200-61561/11		09/19/2013 16:21	1	waj011.d	RTX-624 0.32 (mm)
VIBLK 200-61561/12		09/19/2013 17:09	1		RTX-624 0.32 (mm)
VIBLK 200-61561/13		09/19/2013 17:58	1		RTX-624 0.32 (mm)
ICV 200-61561/14		09/19/2013 18:47	1	waj014.d	RTX-624 0.32 (mm)
VIBLK 200-61561/15		09/19/2013 19:35	1		RTX-624 0.32 (mm)
ZZZZZ		09/19/2013 20:24	1		RTX-624 0.32 (mm)
VIBLK 200-61561/17		09/19/2013 21:13	1		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-18629-1

SDG No.: _____

Instrument ID: W.i Start Date: 10/01/2013 08:50

Analysis Batch Number: 62008 End Date: 10/01/2013 21:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-62008/1		10/01/2013 08:50	1	wajh001.d	RTX-624 0.32 (mm)
CCVIS 200-62008/2		10/01/2013 09:41	1	wajh002.d	RTX-624 0.32 (mm)
MB 200-62008/3		10/01/2013 11:20	1	wajh004.d	RTX-624 0.32 (mm)
LCS 200-62008/4		10/01/2013 12:09	1	wajh005.d	RTX-624 0.32 (mm)
LCS 200-62008/5		10/01/2013 12:59	1	wajh006.d	RTX-624 0.32 (mm)
LCS 200-62008/6		10/01/2013 13:50	1	wajh007.d	RTX-624 0.32 (mm)
ZZZZZ		10/01/2013 14:40	1		RTX-624 0.32 (mm)
ZZZZZ		10/01/2013 15:28	10		RTX-624 0.32 (mm)
ZZZZZ		10/01/2013 16:17	40		RTX-624 0.32 (mm)
ZZZZZ		10/01/2013 17:05	10		RTX-624 0.32 (mm)
ZZZZZ		10/01/2013 17:53	10		RTX-624 0.32 (mm)
200-18629-1	SG-092513-SGP-01	10/01/2013 18:42	10	wajh013.d	RTX-624 0.32 (mm)
200-18629-2	AA-092513-SGP-01	10/01/2013 19:30	10	wajh014.d	RTX-624 0.32 (mm)
CCVC 200-62008/14		10/01/2013 20:19	1	wajh015.d	RTX-624 0.32 (mm)
CCVC 200-62008/15		10/01/2013 21:10	1		RTX-624 0.32 (mm)

Post-Sampling Air Canister Pressure Check Record

Client ID	TALS Job	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst
URS	200-18629	9/27/13	0733	29.8	22	G11	ANI
Sampling Information and Return Equipment Check					Yes	No	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?					✓		
(2) Is the flow controller ID used for each canister recorded?					✓		
(3) MA MCP: Check return flow rate for flow controllers						✓	
(4) Is visible sign of damage to canister and/or flow controller (FC) present?					✓		
If damage observed, list equipment IDs and describe condition:					FC # 4979 has a broken gauge		
Post-Sampling Return Pressure Check							
Lab ID	Canister ID	Pressure ¹ ("Hg)	Anomaly ² (Y/N)	FC ID ³	FC Return (Y/N)	Can Cert Batch ID	Comments
200-18629-1	4260	-4.4	N	4979	Y	4841 GIK	
└ -2	4954	-4.1	N	4696	Y	4850 BLCA	
<div style="position: absolute; transform: rotate(-45deg); opacity: 0.5; font-size: 2em;"> ANI 9/ </div>							

¹ Criteria: Return Pressure should be between -1 and -10 ("Hg)

² If return pressure is not within criteria, initiate anomaly report.

³ Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

ANALYTICAL REPORT

Job Number: 200-19673-1

SDG Number: 200-19673

Job Description: Pompton EISB

For:

URS Corporation

C/O Dupont

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark, DE 19713

Attention: Ms. Candia Carle



Approved for release.
Don C Dawicki
Manager of Project Management
12/10/2013 7:29 AM

Don C Dawicki, Manager of Project Management
30 Community Drive, South Burlington, VT, 05403
(802)660-1990
don.dawicki@testamericainc.com
12/10/2013

cc: Ms. Norma Eichlin

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

TestAmerica Laboratories, Inc.

TestAmerica Burlington 30 Community Drive, Suite 11, South Burlington, VT 05403

Tel (802) 660-1990 Fax (802) 660-1919 www.testamericainc.com



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**ANALYTICAL DATA PACKAGE FOR THE
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NEW JERSEY 08625**

Agency/Division:	NA	Bureau/Office:	NA
Project No:	NA	Contract No.:	NA
Laboratory Name:	TestAmerica Laboratories	Laboratory Location:	South Burlington, Vermont
SDG or Batch No.:	200-19673	NJDEP Certification No.:	VT972
Date of First Sample Receipt:	11/21/2013	Date of Last Sample Receipt:	11/21/2013

Agency Sample Number	Laboratory Sample Number	Sample Location	Date and Time of Collection
AA-111913-SGP-01	200-19673-2	AA-111913-SGP-01	11/19/2013 15:13
SG-111913-SGP-01	200-19673-1	SG-111913-SGP-01	11/19/2013 15:13

I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and in the computer-readable data submitted on disk or electronically has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Laboratory Manager (Typed):	Kirstin Daigle	Date:
Laboratory Manager (Signature):		
Quality Assurance Manager (Typed):	Sara Goff	Date:
Quality Assurance Manager (Signature):		

TestAmerica Burlington
30 Community Drive
Suite 11

South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record & TO-15 Field Test Data Sheet

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information		Project Manager: Norma Echin		Carrier: Fed Ex		of		COCs																	
Company: E.I. DuPont		Phone: 973-492-7703		Sampled By: G. Lenneth / R. Hyatt		Analysis		Matrix																	
Address: 2000 Concord Ball Rd.		E-mail:		Can ID		Flow Reg. ID		Other (Please specify in notes section)																	
City/State/Zip: Pompton Lakes, NJ		Site Contact:		Flow Controller		Can Size		Heilum Prefill for High Methane (LF Gas)																	
Phone: 973-492-7703		TA Contact:		Incoming Canister Pressure ("Hg) (Lab)		Can ID		Soil Gas																	
FAX: 973-492-7749		Analysis Turnaround Time		Outgoing Canister Pressure ("Hg) (Lab)		Flow Reg. ID		Indoor / Ambient Air																	
Project Name: EISB		Standard (Specify) 14 days		Interior Temp. (F) (Start)		Flow Reg. ID		ASTM D-1946																	
Site: Pompton Lakes		Rush (Specify)		Interior Temp. (F) (Stop)		Flow Reg. ID		EPA 26C																	
PO # 50-7882		Canister Pressure in Field ("Hg) (Start)		Interior Temp. (F) (Stop)		Flow Reg. ID		EPA 3C																	
Sample Identification		Canister Pressure in Field ("Hg) (Stop)		Interior Temp. (F) (Stop)		Flow Reg. ID		NJDEP LL-TO-15 (Site Location)																	
Sample Date(s)		Time Start (24 hr clock) / Stop (24 hr clock)		Canister Pressure in Field ("Hg) (Start)		Flow Reg. ID		TO-15																	
SG-111913-SGP-01		11/19/13 1508		1513		30.09		48.1		45.4		-3.3		53.20		4952		177		WAFAS		X			
AA-111913-SGR-01		11/19/13 1508		1513		27.96		5.63		45.4		45.4		-3.9		53.53		4861		175		WAFAS		X	
Ambient		Maximum		Minimum		Temperature (Fahrenheit)		GC/MS Analyst Signature (TO-15)		P. Lenneth															
Start		Stop		Pressure (inches of Hg)		Maximum		Minimum																	
Start		Stop		Ambient		Maximum		Minimum																	
Start		Stop		30.11		30.11																			
Special Instructions/QC Requirements & Comments:																									
Canisters Shipped by: Fed Ex		Date/Time:		Canisters Received by: George Lenneth		Date/Time:		11/19/13 / ~ 1100 AM																	
Samples Relinquished by: George Lenneth		Date/Time:		Received by: Scott F. Hyatt		Date/Time:		11/20/13 / 1500																	
Relinquished by:		Date/Time:		Received by:		Date/Time:		11/21/13																	
Lab Use Only		Shipper Name:		Opened by:		Condition:																			



200-19673 Chain of Custody

Page 5 of 11

TestAmerica Burlington
 30 Community Drive
 Suite 11
 South Burlington, VT 05403
 phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record & TO-15 Field Test Data Sheet

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information		Project Manager: Norma Echin		Carrier: Fed Ex		Analysis		of		COCS	
Company: E.I. DuPont		Phone: 973-492-7703		Sampled By: G. L. VENTH / R. HYATT		Matrix					
Address: 2000 Commercial Rd.		E-mail:									
City/State/Zip: Burlington VT		Site Contact:									
Phone: 973-492-7703		TA Contact:									
FAX: 973-492-7749		Analysis Turnaround Time									
Project Name: EISB		Standard (Specify)		14 days							
Site: Pompton Lakes		Rush (Specify)									
PO # 50-7982											

Sample Identification	Sample Date(s)	Time Start (24 hr clock)	Time Stop (24 hr clock)	Canister Pressure In Field (Psi)	Canister Pressure (Stop) (Psi)	Interior Temp (F) (Start)	Interior Temp (F) (Stop)	Outgoing Canister Pressure (Psi) (Lab)	Incoming Canister Pressure (Psi) (Lab)	Flow Reg ID	Can ID	Can Size (mL/min)	Flow Controller	Can Cert ID	Analysis	
															TO-16	Matrix
SG-11913-SGP-01	11/19/13	1508	1513	3000	487	45.4	45.4			5320	4952				X	X
AA-11913-SGP-01	11/19/13	1508	1513	3190	510	45.4	45.4			5353	4861				X	X

Temperature (Fahrenheit)

Ambient	Maximum	Minimum
Start		
Stop		

Pressure (Inches of Hg)

Ambient	Maximum	Minimum
Start	30.11	
Stop	30.11	

GC/MS Analyst Signature (TO-15)



200-19673 Chain of Custody

Canisters Shipped by: Fed Ex	Date/Time:	Canisters Received by: George Venneth	Date/Time: 11/19/13 / ~ 1100 AM
Samples Relinquished by: George Venneth	Date/Time: 11/20/13 / 1500	Received by: George Venneth	Date/Time: 11/19/13 / ~ 1100 AM
Relinquished by: George Venneth	Date/Time: 11/20/13 / 1500	Received by: George Venneth	Date/Time: 11/21/13 / 0945

Lab Use Only Shipper Name: _____ Opened by: _____ Condition: _____

FedEx NEW Package
Express US Airbill

Tracking Number

8008 9567 7744

0200

FedEx Retrieval Copy

From Date: 11/20/13

Sender's Name: George Nemeth Phone: 978 492-7703

Company: E.I. DuPont

Address: 2000 Cannonball Rd.

City: Pompton Lakes State: NJ ZIP: 07442

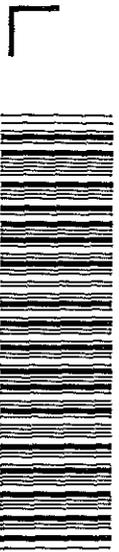
2 Your Internal Billing Reference

3 To Recipients Name: Sample Receiving Phone: 802 660-1900

Company: Test America

Address: 30 Community Dr STELL, VT 05403

City: South Burlington State: VT ZIP: 05403



8008 9567 7744

4 Express Package Service - To meet deadline. NOTE: Service order has changed. Please adjust accordingly.

01X FedEx First Overnight

01X FedEx Priority Overnight

05 FedEx Standard Overnight

06 FedEx Envelope

03 SATURDAY DELIVERY

6 Special Handling and Delivery Signature Options

No Signature Required

Direct Signature

Indirect Signature

7 Payment Bill to: Sender, Addressee, or Other

1X Sender

2 Addressee

3 Receipt

4 Third Party

5 Credit Card

6 Cash/Check



8008 9567 7744

Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 200-19673-1
SDG Number: 200-19673

Login Number: 19673
List Number: 1
Creator: Lavigne, Scott M

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	117274
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	AMBIENT
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATT15LLCAL4w_00086	12/05/13	10/10/13		15.463 L	ATTO15CAL6w_00079	155 mL	1,1,1-Trichloroethane	0.20044 ppb v/v
							1,1,2,2-Tetrachloroethane	0.20044 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.20044 ppb v/v
							1,1,2-Trichloroethane	0.20044 ppb v/v
							1,1-Dichloroethane	0.20044 ppb v/v
							1,1-Dichloroethene	0.20044 ppb v/v
							1,2,4-Trichlorobenzene	0.20044 ppb v/v
							1,2,4-Trimethylbenzene	0.20044 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20044 ppb v/v
							1,2-Dichlorobenzene	0.20044 ppb v/v
							1,2-Dichloroethane	0.20044 ppb v/v
							1,2-Dichloroethene, cis-	0.20044 ppb v/v
							1,2-Dichloroethene, trans-	0.20044 ppb v/v
							1,2-Dichloropropane	0.20044 ppb v/v
							1,3,5-Trimethylbenzene	0.20044 ppb v/v
							1,3-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dioxane	0.20044 ppb v/v
							2-Butanone (MEK)	0.20044 ppb v/v
							2-Chlorotoluene	0.20044 ppb v/v
2-Methyl-2-propanol	0.20044 ppb v/v							
3-Chloro-1-propene	0.20044 ppb v/v							
4-Ethyltoluene	0.20044 ppb v/v							
4-Methyl-2-pentanone (MIBK)	0.20044 ppb v/v							
Acetone	0.20044 ppb v/v							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	0.20044 ppb v/v
							Bromoform	0.20044 ppb v/v
							Bromomethane	0.20044 ppb v/v
							Butadiene	0.20044 ppb v/v
							Carbon disulfide	0.20044 ppb v/v
							Carbon tetrachloride	0.20044 ppb v/v
							Chlorobenzene	0.20044 ppb v/v
							Chlorodibromomethane	0.20044 ppb v/v
							Chloroethane	0.20044 ppb v/v
							Chloroform	0.20044 ppb v/v
							Chloromethane	0.20044 ppb v/v
							cis-1,3-Dichloropropene	0.20044 ppb v/v
							Cyclohexane	0.20044 ppb v/v
							Dichlorobromomethane	0.20044 ppb v/v
							Dichlorodifluoromethane	0.20044 ppb v/v
							Ethylbenzene	0.20044 ppb v/v
							Ethylene Dibromide	0.20044 ppb v/v
							Hexachlorobutadiene	0.20044 ppb v/v
							Hexane	0.20044 ppb v/v
							Isooctane	0.20044 ppb v/v
							Isopropyl alcohol	0.20044 ppb v/v
							m-Xylene & p-Xylene	0.400879 ppb v/v
							Methyl methacrylate	0.20044 ppb v/v
							Methyl tert-butyl ether	0.20044 ppb v/v
							Methylene Chloride	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Heptane	0.20044 ppb v/v
							o-Xylene	0.20044 ppb v/v
							Styrene	0.20044 ppb v/v
							Tetrachloroethene	0.20044 ppb v/v
							Tetrahydrofuran	0.20044 ppb v/v
							Toluene	0.20044 ppb v/v
							trans-1,3-Dichloropropene	0.20044 ppb v/v
							Trichloroethene	0.20044 ppb v/v
							Trichlorofluoromethane	0.20044 ppb v/v
							Vinyl bromide	0.20044 ppb v/v
							Vinyl chloride	0.20044 ppb v/v
.ATTO15CAL6w_00079	12/05/13	10/14/13	DI WATER, Lot 3535	15.463 L	ATTO15CALSTKi_00048	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
..ATTO15CALSTKi_00048	12/05/13	10/10/13	DI WATER, Lot 4985	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
...ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATT15LLCAL4w_00088	12/05/13	10/10/13		15.463 L	ATTO15CAL6w_00079	155 mL	1,1,1-Trichloroethane	0.20044 ppb v/v
							1,1-Dichloroethane	0.20044 ppb v/v
							1,1-Dichloroethene	0.20044 ppb v/v
							1,2-Dichloroethane	0.20044 ppb v/v
							1,2-Dichloroethene, cis-	0.20044 ppb v/v
							1,2-Dichloroethene, trans-	0.20044 ppb v/v
							Carbon tetrachloride	0.20044 ppb v/v
							Tetrachloroethene	0.20044 ppb v/v
							Trichloroethene	0.20044 ppb v/v
							Vinyl chloride	0.20044 ppb v/v
.ATTO15CAL6w_00079	12/05/13	10/14/13	DI WATER, Lot 3535	15.463 L	ATTO15CALSTKi_00048	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2-Dichloroethene	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
..ATTO15CALSTKi_00048	12/05/13	10/10/13	DI WATER, Lot 4985	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethane, cis-	200 ppb v/v
							1,2-Dichloroethane, trans-	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Trichloroethane	200 ppb v/v
							Vinyl chloride	200 ppb v/v
...ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethane, cis-	1 ppm v/v
							1,2-Dichloroethane, trans-	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Trichloroethane	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL2w_00105	12/05/13	10/19/13	DI WATER, Lot 2961	15.463 L	ATTO15CAL6w_00079	387 mL	1,1,1-Trichloroethane	0.500453 ppb v/v
							1,1,2,2-Tetrachloroethane	0.500453 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.500453 ppb v/v
							1,1,2-Trichloroethane	0.500453 ppb v/v
							1,1-Dichloroethane	0.500453 ppb v/v
							1,1-Dichloroethane	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	0.500453 ppb v/v
							1,2,4-Trimethylbenzene	0.500453 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.500453 ppb v/v
							1,2-Dichlorobenzene	0.500453 ppb v/v
							1,2-Dichloroethane	0.500453 ppb v/v
							1,2-Dichloroethene, cis-	0.500453 ppb v/v
							1,2-Dichloroethene, trans-	0.500453 ppb v/v
							1,2-Dichloropropane	0.500453 ppb v/v
							1,3,5-Trimethylbenzene	0.500453 ppb v/v
							1,3-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dioxane	0.500453 ppb v/v
							2-Butanone (MEK)	0.500453 ppb v/v
							2-Chlorotoluene	0.500453 ppb v/v
							2-Methyl-2-propanol	0.500453 ppb v/v
							3-Chloro-1-propene	0.500453 ppb v/v
							4-Ethyltoluene	0.500453 ppb v/v
							4-Methyl-2-pentanone (MIBK)	0.500453 ppb v/v
							Acetone	0.500453 ppb v/v
							Benzene	0.500453 ppb v/v
							Bromoform	0.500453 ppb v/v
							Bromomethane	0.500453 ppb v/v
							Butadiene	0.500453 ppb v/v
							Carbon disulfide	0.500453 ppb v/v
							Carbon tetrachloride	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	0.500453 ppb v/v
							Chlorodibromomethane	0.500453 ppb v/v
							Chloroethane	0.500453 ppb v/v
							Chloroform	0.500453 ppb v/v
							Chloromethane	0.500453 ppb v/v
							cis-1,3-Dichloropropene	0.500453 ppb v/v
							Cyclohexane	0.500453 ppb v/v
							Dichlorobromomethane	0.500453 ppb v/v
							Dichlorodifluoromethane	0.500453 ppb v/v
							Ethylbenzene	0.500453 ppb v/v
							Ethylene Dibromide	0.500453 ppb v/v
							Hexachlorobutadiene	0.500453 ppb v/v
							Hexane	0.500453 ppb v/v
							Isooctane	0.500453 ppb v/v
							Isopropyl alcohol	0.500453 ppb v/v
							m-Xylene & p-Xylene	1.00091 ppb v/v
							Methyl methacrylate	0.500453 ppb v/v
							Methyl tert-butyl ether	0.500453 ppb v/v
							Methylene Chloride	0.500453 ppb v/v
							n-Heptane	0.500453 ppb v/v
							o-Xylene	0.500453 ppb v/v
							Styrene	0.500453 ppb v/v
							Tetrachloroethene	0.500453 ppb v/v
							Tetrahydrofuran	0.500453 ppb v/v
							Toluene	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	0.500453 ppb v/v
							Trichloroethene	0.500453 ppb v/v
							Trichlorofluoromethane	0.500453 ppb v/v
							Vinyl bromide	0.500453 ppb v/v
							Vinyl chloride	0.500453 ppb v/v
.ATTO15CAL6w_00079	12/05/13	10/14/13	DI WATER, Lot 3535	15.463 L	ATTO15CALSTKi_00048	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
..ATTO15CALSTKi_00048	12/05/13	10/10/13	DI WATER, Lot 4985	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
trans-1,3-Dichloropropene	200 ppb v/v							
Trichloroethene	200 ppb v/v							
Trichlorofluoromethane	200 ppb v/v							
Vinyl bromide	200 ppb v/v							
Vinyl chloride	200 ppb v/v							
...ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL3w_00117	12/05/13	10/28/13	DI WATER, Lot 5452	15.463 L	ATTO15CALSTKi_00048	386 mL	1,1,1-Trichloroethane	4.99256 ppb v/v
							1,1,2,2-Tetrachloroethane	4.99256 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	4.99256 ppb v/v
							1,1,2-Trichloroethane	4.99256 ppb v/v
							1,1-Dichloroethane	4.99256 ppb v/v
							1,1-Dichloroethene	4.99256 ppb v/v
							1,2,4-Trichlorobenzene	4.99256 ppb v/v
							1,2,4-Trimethylbenzene	4.99256 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	4.99256 ppb v/v
							1,2-Dichlorobenzene	4.99256 ppb v/v
							1,2-Dichloroethane	4.99256 ppb v/v
							1,2-Dichloroethene, cis-	4.99256 ppb v/v
							1,2-Dichloroethene, trans-	4.99256 ppb v/v
							1,2-Dichloropropane	4.99256 ppb v/v
							1,3,5-Trimethylbenzene	4.99256 ppb v/v
							1,3-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dioxane	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Butanone (MEK)	4.99256 ppb v/v
							2-Chlorotoluene	4.99256 ppb v/v
							2-Methyl-2-propanol	4.99256 ppb v/v
							3-Chloro-1-propene	4.99256 ppb v/v
							4-Ethyltoluene	4.99256 ppb v/v
							4-Methyl-2-pentanone (MIBK)	4.99256 ppb v/v
							Acetone	4.99256 ppb v/v
							Benzene	4.99256 ppb v/v
							Bromoform	4.99256 ppb v/v
							Bromomethane	4.99256 ppb v/v
							Butadiene	4.99256 ppb v/v
							Carbon disulfide	4.99256 ppb v/v
							Carbon tetrachloride	4.99256 ppb v/v
							Chlorobenzene	4.99256 ppb v/v
							Chlorodibromomethane	4.99256 ppb v/v
							Chloroethane	4.99256 ppb v/v
							Chloroform	4.99256 ppb v/v
							Chloromethane	4.99256 ppb v/v
							cis-1,3-Dichloropropene	4.99256 ppb v/v
							Cyclohexane	4.99256 ppb v/v
							Dichlorobromomethane	4.99256 ppb v/v
							Dichlorodifluoromethane	4.99256 ppb v/v
							Ethylbenzene	4.99256 ppb v/v
							Ethylene Dibromide	4.99256 ppb v/v
							Hexachlorobutadiene	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	4.99256 ppb v/v
							Isooctane	4.99256 ppb v/v
							Isopropyl alcohol	4.99256 ppb v/v
							m-Xylene & p-Xylene	9.98513 ppb v/v
							Methyl methacrylate	4.99256 ppb v/v
							Methyl tert-butyl ether	4.99256 ppb v/v
							Methylene Chloride	4.99256 ppb v/v
							n-Heptane	4.99256 ppb v/v
							o-Xylene	4.99256 ppb v/v
							Styrene	4.99256 ppb v/v
							Tetrachloroethene	4.99256 ppb v/v
							Tetrahydrofuran	4.99256 ppb v/v
							Toluene	4.99256 ppb v/v
							trans-1,3-Dichloropropene	4.99256 ppb v/v
							Trichloroethene	4.99256 ppb v/v
							Trichlorofluoromethane	4.99256 ppb v/v
							Vinyl bromide	4.99256 ppb v/v
							Vinyl chloride	4.99256 ppb v/v
.ATTO15CALSTKi_00048	12/05/13	10/10/13	DI WATER, Lot 4985	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	Vinyl chloride	200 ppb v/v
							1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL4w_00314	12/05/13	10/28/13	DI WATER, Lot 5437	15.463 L	ATTO15CALSTKi_00048	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, cis-	9.99806 ppb v/v
							1,2-Dichloroethene, trans-	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
.ATTO15CALSTKi_00048	12/05/13	10/10/13	DI WATER, Lot 4985	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL4w_00316	12/05/13	10/28/13	DI WATER, Lot 4548	15.463 L	ATTO15CALSTKi_00048	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, cis-	9.99806 ppb v/v
							1,2-Dichloroethene, trans-	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2-Butanone (MEK)	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v
							2-Methyl-2-propanol	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	9.99806 ppb v/v
							4-Ethyltoluene	9.99806 ppb v/v
							4-Methyl-2-pentanone (MIBK)	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Butadiene	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chlorodibromomethane	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dichlorobromomethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Ethylene Dibromide	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Hexane	9.99806 ppb v/v
							Isooctane	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	19.9961 ppb v/v
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							o-Xylene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl bromide	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
.ATTO15CALSTKi_00048	12/05/13	10/10/13	DI WATER, Lot 4985	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL5w_00039	12/05/13	09/09/13	DI WATER, Lot 2691	15.463 L	ATTO15CALSTKi_00047	1160 mL	1,1,1-Trichloroethane	15.0036 ppb v/v
							1,1,2,2-Tetrachloroethane	15.0036 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	15.0036 ppb v/v
							1,1,2-Trichloroethane	15.0036 ppb v/v
							1,1-Dichloroethane	15.0036 ppb v/v
							1,1-Dichloroethene	15.0036 ppb v/v
							1,2,4-Trichlorobenzene	15.0036 ppb v/v
							1,2,4-Trimethylbenzene	15.0036 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	15.0036 ppb v/v
							1,2-Dichlorobenzene	15.0036 ppb v/v
							1,2-Dichloroethane	15.0036 ppb v/v
							1,2-Dichloroethene, cis-	15.0036 ppb v/v
							1,2-Dichloroethene, trans-	15.0036 ppb v/v
							1,2-Dichloropropane	15.0036 ppb v/v
							1,3,5-Trimethylbenzene	15.0036 ppb v/v
							1,3-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dioxane	15.0036 ppb v/v
							2-Butanone (MEK)	15.0036 ppb v/v
							2-Chlorotoluene	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	15.0036 ppb v/v
							3-Chloro-1-propene	15.0036 ppb v/v
							4-Ethyltoluene	15.0036 ppb v/v
							4-Methyl-2-pentanone (MIBK)	15.0036 ppb v/v
							Acetone	15.0036 ppb v/v
							Benzene	15.0036 ppb v/v
							Bromoform	15.0036 ppb v/v
							Bromomethane	15.0036 ppb v/v
							Butadiene	15.0036 ppb v/v
							Carbon disulfide	15.0036 ppb v/v
							Carbon tetrachloride	15.0036 ppb v/v
							Chlorobenzene	15.0036 ppb v/v
							Chlorodibromomethane	15.0036 ppb v/v
							Chloroethane	15.0036 ppb v/v
							Chloroform	15.0036 ppb v/v
							Chloromethane	15.0036 ppb v/v
							cis-1,3-Dichloropropene	15.0036 ppb v/v
							Cyclohexane	15.0036 ppb v/v
							Dichlorobromomethane	15.0036 ppb v/v
							Dichlorodifluoromethane	15.0036 ppb v/v
							Ethylbenzene	15.0036 ppb v/v
							Ethylene Dibromide	15.0036 ppb v/v
							Hexachlorobutadiene	15.0036 ppb v/v
							Hexane	15.0036 ppb v/v
							Isooctane	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	15.0036 ppb v/v
							m-Xylene & p-Xylene	30.0071 ppb v/v
							Methyl methacrylate	15.0036 ppb v/v
							Methyl tert-butyl ether	15.0036 ppb v/v
							Methylene Chloride	15.0036 ppb v/v
							n-Heptane	15.0036 ppb v/v
							o-Xylene	15.0036 ppb v/v
							Styrene	15.0036 ppb v/v
							Tetrachloroethene	15.0036 ppb v/v
							Tetrahydrofuran	15.0036 ppb v/v
							Toluene	15.0036 ppb v/v
							trans-1,3-Dichloropropene	15.0036 ppb v/v
							Trichloroethene	15.0036 ppb v/v
							Trichlorofluoromethane	15.0036 ppb v/v
							Vinyl bromide	15.0036 ppb v/v
							Vinyl chloride	15.0036 ppb v/v
.ATTO15CALSTKi_00047	12/05/13	09/05/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
Vinyl bromide	200 ppb v/v							
Vinyl chloride	200 ppb v/v							
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL6w_00079	12/05/13	10/14/13	DI WATER, Lot 3535	15.463 L	ATTO15CALSTKi_00048	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
.ATTO15CALSTKi_00048	12/05/13	10/10/13	DI WATER, Lot 4985	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179			(Purchased Reagent)	Vinyl chloride	200 ppb v/v
							1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL7w_00041	12/05/13	09/09/13	DI WATER, Lot 5406	15.463 L	ATTO15CALSTKi_00047	3092 mL	1,1,1-Trichloroethane	39.9922 ppb v/v
							1,1,2,2-Tetrachloroethane	39.9922 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	39.9922 ppb v/v
							1,1,2-Trichloroethane	39.9922 ppb v/v
							1,1-Dichloroethane	39.9922 ppb v/v
							1,1-Dichloroethene	39.9922 ppb v/v
							1,2,4-Trichlorobenzene	39.9922 ppb v/v
							1,2,4-Trimethylbenzene	39.9922 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	39.9922 ppb v/v
							1,2-Dichlorobenzene	39.9922 ppb v/v
							1,2-Dichloroethane	39.9922 ppb v/v
							1,2-Dichloroethene, cis-	39.9922 ppb v/v
							1,2-Dichloroethene, trans-	39.9922 ppb v/v
							1,2-Dichloropropane	39.9922 ppb v/v
							1,3,5-Trimethylbenzene	39.9922 ppb v/v
							1,3-Dichlorobenzene	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dioxane	39.9922 ppb v/v
							2-Butanone (MEK)	39.9922 ppb v/v
							2-Chlorotoluene	39.9922 ppb v/v
							2-Methyl-2-propanol	39.9922 ppb v/v
							3-Chloro-1-propene	39.9922 ppb v/v
							4-Ethyltoluene	39.9922 ppb v/v
							4-Methyl-2-pentanone (MIBK)	39.9922 ppb v/v
							Acetone	39.9922 ppb v/v
							Benzene	39.9922 ppb v/v
							Bromoform	39.9922 ppb v/v
							Bromomethane	39.9922 ppb v/v
							Butadiene	39.9922 ppb v/v
							Carbon disulfide	39.9922 ppb v/v
							Carbon tetrachloride	39.9922 ppb v/v
							Chlorobenzene	39.9922 ppb v/v
							Chlorodibromomethane	39.9922 ppb v/v
							Chloroethane	39.9922 ppb v/v
							Chloroform	39.9922 ppb v/v
							Chloromethane	39.9922 ppb v/v
							cis-1,3-Dichloropropene	39.9922 ppb v/v
							Cyclohexane	39.9922 ppb v/v
							Dichlorobromomethane	39.9922 ppb v/v
							Dichlorodifluoromethane	39.9922 ppb v/v
							Ethylbenzene	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylene Dibromide	39.9922 ppb v/v
							Hexachlorobutadiene	39.9922 ppb v/v
							Hexane	39.9922 ppb v/v
							Isooctane	39.9922 ppb v/v
							Isopropyl alcohol	39.9922 ppb v/v
							m-Xylene & p-Xylene	79.9845 ppb v/v
							Methyl methacrylate	39.9922 ppb v/v
							Methyl tert-butyl ether	39.9922 ppb v/v
							Methylene Chloride	39.9922 ppb v/v
							n-Heptane	39.9922 ppb v/v
							o-Xylene	39.9922 ppb v/v
							Styrene	39.9922 ppb v/v
							Tetrachloroethene	39.9922 ppb v/v
							Tetrahydrofuran	39.9922 ppb v/v
							Toluene	39.9922 ppb v/v
							trans-1,3-Dichloropropene	39.9922 ppb v/v
							Trichloroethene	39.9922 ppb v/v
							Trichlorofluoromethane	39.9922 ppb v/v
							Vinyl bromide	39.9922 ppb v/v
							Vinyl chloride	39.9922 ppb v/v
.ATTO15CALSTKi_00047	12/05/13	09/05/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00009	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00009	12/05/13		Spectra Gases, Lot cc-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

SDG No.: 200-19673

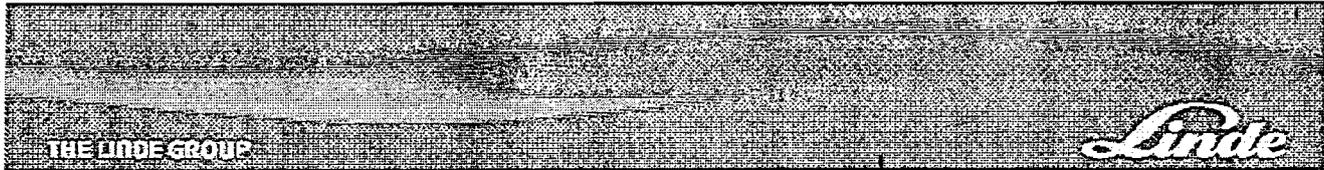
Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15LCSW_00337	12/05/13	11/20/13	DI WATER, Lot 3332	15.463 L	ATTO15LCSSTKi_00044	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, cis-	9.99806 ppb v/v
							1,2-Dichloroethene, trans-	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
.ATTO15LCSSTKi_00044	12/05/13	11/12/13	DI WATER, Lot 7951	37.5 L	ATTO15LCSs_00011	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Tetrachloroethene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-19673-1

SDG No.: 200-19673

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15LCSs_00011	12/05/13		Spectra Gases, Lot CC-230119			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15VISs_00005	11/15/15		Spectra Gases, Lot CC-318016			(Purchased Reagent)	1,4-Difluorobenzene	100 ppb v/v
							Chlorobenzene-d5	100 ppb v/v
							Chlorobromomethane	100 ppb v/v



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439415

ID: ATTO15CALs_00009
Exp:12/05/13 Pripd:WRD Opn:12/05/12
TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#: 109735129	Cylinder Size: 2A (8" X 47.5")
Production#: 2851880	Cylinder # : CC-250179
Certification Date: Dec-05-2012	Cylinder Pressure: 1100 psig
P.O.# : Verbal-Recert	Cylinder Valve: CGA 350 / Steel
Blend Type: CERTIFIED	Cylinder Volume: 29.5 Liter
Material#: 14004443	Cylinder Material: Aluminum
Traceability: NIST by weight	Gas Volume: 2200 Liter
Expiration Date: Dec-05-2013	Blend Tolerance: 10% Relative
Do NOT use under: 150 psig	Analytical Accuracy: 5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Propylene	115-07-1	1.00 ppm	1.04 ppm
Chlorodifluoromethane	75-45-6	1.00 ppm	1.02 ppm
Freon-12	75-71-8	1.00 ppm	0.97 ppm
Chloromethane	74-87-3	1.00 ppm	0.98 ppm
Freon-114	76-14-2	1.00 ppm	0.98 ppm
Vinyl Chloride	75-01-4	1.00 ppm	0.98 ppm
1,3-Butadiene	106-99-0	1.00 ppm	1.01 ppm
Methanol (No Stability Guarantee)	67-56-1	1.00 ppm	0.94 ppm
n-Butane	106-97-8	1.00 ppm	1.03 ppm
Bromomethane	74-83-9	1.00 ppm	1.00 ppm
Chloroethane	75-00-3	1.00 ppm	0.98 ppm
Vinyl Bromide	593-60-2	1.00 ppm	1.06 ppm
Acetonitrile (Analytical Accuracy +/-10%)		1.00 ppm	1.02 ppm
Acrolein (Analytical Accuracy +/-10%)		1.00 ppm	1.10 ppm
Isopentane	78-78-4	1.00 ppm	1.06 ppm
Acetone	67-64-1	1.00 ppm	1.06 ppm
Freon-11	75-69-4	1.00 ppm	0.95 ppm
Isopropyl Alcohol	67-63-0	1.00 ppm	1.01 ppm
Acrylonitrile	107-13-1	1.00 ppm	1.06 ppm
n-Pentane	109-66-0	1.00 ppm	1.06 ppm
Ethyl Ether	60-29-7	1.00 ppm	1.09 ppm
1,1-Dichloroethene	75-35-4	1.00 ppm	0.98 ppm
Carbon Disulfide (Analytical Accuracy +/- 10%)	75-15-0	1.00 ppm	1.03 ppm
Methylene Chloride	75-09-2	1.00 ppm	1.03 ppm
Tert-Butanol		1.00 ppm	1.03 ppm
3-Chloropropene	107-05-1	1.00 ppm	1.03 ppm
Freon-113	76-13-1	1.00 ppm	0.97 ppm
Trans-1,2-Dichloroethene	156-60-5	1.00 ppm	1.04 ppm
1,1-Dichloroethane	75-34-3	1.00 ppm	1.02 ppm
Methyl Tert Butyl Ether	1634-04-4	1.00 ppm	1.04 ppm



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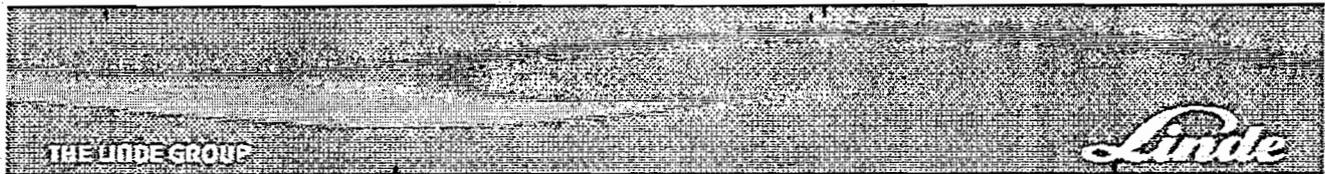
439415

ID: ATTO15CALs_00009
Exp: 12/05/13 Ppd: WRD Opr: 12/05/12
TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#:	109735129	Cylinder Size:	2A (8" X 47.5")
Production#:	2851880	Cylinder # :	CC-250179
Certification Date:	Dec-05-2012	Cylinder Pressure:	1100 psig
P.O.# :	Verbal-Recert	Cylinder Valve:	CGA 350 / Steel
Blend Type:	CERTIFIED	Cylinder Volume:	29.5 Liter
Material#:	14004443	Cylinder Material:	Aluminum
Traceability:	NIST by weight	Gas Volume:	2200 Liter
Expiration Date:	Dec-05-2013	Blend Tolerance:	10% Relative
Do NOT use under:	150 psig	Analytical Accuracy:	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Vinyl Acetate	108-05-4	1.00 ppm	1.03 ppm
Methyl Ethyl Ketone	78-93-3	1.00 ppm	1.09 ppm
Cis-1,2-Dichloroethene	156-59-2	1.00 ppm	1.02 ppm
Hexane	110-54-3	1.00 ppm	1.09 ppm
Chloroform	67-66-3	1.00 ppm	1.04 ppm
Ethyl Acetate	141-78-6	1.00 ppm	1.04 ppm
Tetrahydrofuran	109-99-9	1.00 ppm	1.08 ppm
1,2-Dichloroethane	107-06-2	1.00 ppm	1.04 ppm
1,1,1-Trichloroethane	71-55-6	1.00 ppm	1.02 ppm
Benzene	71-43-2	1.00 ppm	1.04 ppm
1-Butanol	71-36-3	1.00 ppm	1.07 ppm
Carbon Tetrachloride	56-23-5	1.00 ppm	1.05 ppm
Cyclohexane	110-82-7	1.00 ppm	1.06 ppm
Dibromomethane	74-95-3	1.00 ppm	1.05 ppm
1,2-Dichloropropane	78-87-5	1.00 ppm	1.05 ppm
Trichloroethylene	79-01-6	1.00 ppm	1.05 ppm
Bromodichloromethane	75-27-4	1.00 ppm	1.05 ppm
1,4-Dioxane	123-91-1	1.00 ppm	1.05 ppm
2,2,4-Trimethylpentane	540-84-1	1.00 ppm	1.03 ppm
Methyl Methacrylate	80-62-6	1.00 ppm	1.06 ppm
Heptane	142-82-5	1.00 ppm	1.06 ppm
Cis-1,3-Dichloropropene	10061-01-5	1.00 ppm	1.03 ppm
Methyl Isobutyl Ketone	108-10-1	1.00 ppm	1.06 ppm
Trans-1,3-Dichloropropene	10061-02-6	1.00 ppm	1.12 ppm
1,1,2-Trichloroethane	79-00-5	1.00 ppm	1.08 ppm
Toluene	108-88-3	1.00 ppm	1.07 ppm
Methyl Butyl Ketone	591-78-6	1.00 ppm	1.10 ppm
Dibromochloromethane	124-48-1	1.00 ppm	1.09 ppm
1,2-Dibromoethane	106-93-4	1.00 ppm	1.07 ppm
n-Octane	111-65-9	1.00 ppm	1.05 ppm



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PAGE: 3 of 4



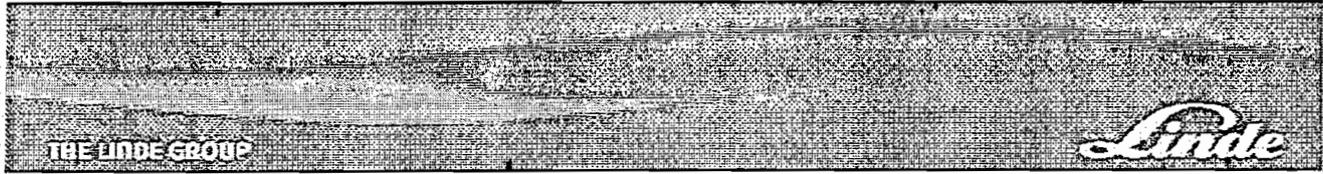
439415

ID: ATTO15CALs_00009
Exp: 12/05/13 Prpd: WRD Opm: 12/05/12
TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#:	109735129	Cylinder Size:	2A (8" X 47.5")
Production#:	2851880	Cylinder #:	CC-250179
Certification Date:	Dec-05-2012	Cylinder Pressure:	1100 psig
P.O.# :	Verbal-Recert	Cylinder Valve:	CGA 350 / Steel
Blend Type:	CERTIFIED	Cylinder Volume:	29.5 Liter
Material#:	14004443	Cylinder Material:	Aluminum
Traceability:	NIST by weight	Gas Volume:	2200 Liter
Expiration Date:	Dec-05-2013	Blend Tolerance:	10% Relative
Do NOT use under:	150 psig	Analytical Accuracy:	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Tetrachloroethylene	127-18-4	1.00 ppm	1.00 ppm
Chlorobenzene	108-90-7	1.00 ppm	1.09 ppm
Ethylbenzene	100-41-4	1.00 ppm	1.06 ppm
p-xylene	106-42-3	1.00 ppm	1.05 ppm
m-xylene	108-38-3	1.00 ppm	1.05 ppm
Bromoform	75-25-2	1.00 ppm	1.05 ppm
Styrene	100-42-5	1.00 ppm	1.08 ppm
o-xylene	95-47-6	1.00 ppm	1.08 ppm
1,1,2,2-Tetrachloroethane	79-34-5	1.00 ppm	1.08 ppm
1,2,3-Trichloropropane	96-18-4	1.00 ppm	1.05 ppm
Nonane	111-84-2	1.00 ppm	1.03 ppm
Cumene	98-82-8	1.00 ppm	1.05 ppm
2-Chlorotoluene	95-49-8	1.00 ppm	1.08 ppm
n-Propylbenzene	103-65-1	1.00 ppm	1.00 ppm
4-Ethyltoluene	622-96-8	1.00 ppm	1.07 ppm
1,3,5-Trimethylbenzene	108-67-8	1.00 ppm	1.07 ppm
alpha-Methyl Styrene (no stability guarantee)	98-83-9	1.00 ppm	1.03 ppm
Tert-Butyl Benzene	98-06-6	1.00 ppm	1.05 ppm
1,2,4-Trimethylbenzene	95-63-6	1.00 ppm	1.05 ppm
1,3-Dichlorobenzene	541-73-1	1.00 ppm	1.09 ppm
Benzyl Chloride (Analytical Accuracy +/- 10%)	100-44-7	1.00 ppm	1.09 ppm
n-Decane	124-18-5	1.00 ppm	1.05 ppm
1,4-Dichlorobenzene	106-46-7	1.00 ppm	1.05 ppm
Sec-Butyl Benzene	135-98-8	1.00 ppm	1.02 ppm
4-Isopropyltoluene	99-87-6	1.00 ppm	1.02 ppm
1,2-Dichlorobenzene	95-50-1	1.00 ppm	1.10 ppm
n-Butyl Benzene	104-51-8	1.00 ppm	1.04 ppm
n-Undecane	1120-21-4	1.00 ppm	0.97 ppm



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PAGE: 4 of 4



439415

ID: ATTO15CALs_00009
 Exp:12/05/13 Prep:WRD Opn:12/05/12
 TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#: 109735129
Production#: 2851880
Certification Date: Dec-05-2012
P.O.# : Verbal-Recert
Blend Type: CERTIFIED
Material#: 14004443
Traceability: NIST by weight
Expiration Date: Dec-05-2013
Do NOT use under: 150 psig

Cylinder Size: 2A (8" X 47.5")
Cylinder # : CC-250179
Cylinder Pressure: 1100 psig
Cylinder Valve: CGA 350 / Steel
Cylinder Volume: 29.5 Liter
Cylinder Material: Aluminum
Gas Volume: 2200 Liter
Blend Tolerance: 10% Relative
Analytical Accuracy: 5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
1,2,4-Trichlorobenzene	120-82-1	1.00 ppm	1.08 ppm
Naphthalene (Analytical Accuracy +/- 10%)	91-20-3	1.00 ppm	1.03 ppm
n-Dodecane	112-40-3	1.00 ppm	0.95 ppm
1,2,3-Trichlorobenzene	87-61-6	1.00 ppm	1.05 ppm
Hexachloro-1,3-Butadiene	87-68-3	1.00 ppm	1.09 ppm
Nitrogen	7727-37-9	Balance	Balance

ANALYST: Lou Lorenzetti
 Lou Lorenzetti

DATE: Dec-05-2012



Spectra Gases, Inc.

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Recut AT 02-010-05 11/10/08 -> 11/10/09

-CS

Corporate Cal Mix.

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PAGE: 1 of 4
Exp 1/6/10
MTP 3/2/09

AT 0200614 Lot # 2426

CERTIFICATE OF ANALYSIS

1/9/06 DWW

SGI ORDER #: 0082390
ITEM#: 1
CERTIFICATION DATE: 12/28/2005
P.O.#: 2129987
BLEND TYPE: CERTIFIED
CYLINDER #: CC-230119
CYLINDER PRES: 2000 psig
CYLINDER VALVE: CGA 350
PRODUCT EXPIRATION DATE: 12/28/2006
Recut 1/12/07



439437
ID: ATTO15LCSs_00011
Exp: 12/05/13 Prip: WRD Opn: 12/14/10
TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Propylene	1.00 ppm	1.05 ppm
Freon-22	1.00 ppm	1.04 ppm
Freon-12	1.00 ppm	0.99 ppm
Chloromethane	1.00 ppm	0.99 ppm
Freon-114	1.00 ppm	0.96 ppm
Vinyl Chloride	1.00 ppm	0.99 ppm
1,3-Butadiene	1.00 ppm	1.07 ppm
Methanol (no stability guarantee)	1.00 ppm	1.08 ppm
n-Butane	1.00 ppm	1.03 ppm
Bromomethane	1.00 ppm	0.98 ppm
Chloroethane	1.00 ppm	0.97 ppm
Vinyl Bromide	1.00 ppm	1.05 ppm
Carbon Disulfide (no stability guarantee)	1.00 ppm	1.05 ppm
Acetonitrile	1.00 ppm	1.10 ppm
Acrolien (no stability guarantee)	1.00 ppm	1.06 ppm
Isopentane	1.00 ppm	1.09 ppm
Acetone	1.00 ppm	1.02 ppm
Freon-11	1.00 ppm	1.02 ppm
Isopropyl Alcohol	1.00 ppm	1.05 ppm
Acrylonitrile	1.00 ppm	1.08 ppm
Pentane	1.00 ppm	1.07 ppm
Ethyl Ether	1.00 ppm	1.06 ppm
1,1-Dichloroethene	1.00 ppm	1.09 ppm
Methylene Chloride	1.00 ppm	1.05 ppm
Tert-Butyl Alcohol	1.00 ppm	1.10 ppm
3-Chloropropene	1.00 ppm	1.10 ppm
Freon-113	1.00 ppm	1.07 ppm
Trans-1,2-Dichloroethene	1.00 ppm	1.03 ppm
1,1-Dichloroethane	1.00 ppm	1.04 ppm
Methyl Tert Butyl Ether	1.00 ppm	1.07 ppm



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PAGE: 2 of 4

**CERTIFICATE
OF
ANALYSIS**

SGI ORDER # :	0082390	CYLINDER # :	CC-230119
ITEM# :	1	CYLINDER PRES:	2000 psig
CERTIFICATION DATE:	12/28/2005	CYLINDER VALVE:	CGA 350
P.O.# :	2129987	PRODUCT EXPIRATION DATE:	12/28/2006
BLEND TYPE:	CERTIFIED		



439437

ID: ATTO15LCSs_00011
Exp: 12/05/13 P: 0 WRD Opn: 12/14/10
TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Vinyl Acetate	1.00 ppm	1.06 ppm
Methyl Ethyl Ketone	1.00 ppm	1.10 ppm
Cis-1,2-Dichloroethene	1.00 ppm	1.05 ppm
Hexane	1.00 ppm	1.10 ppm
Ethyl Acetate	1.00 ppm	1.07 ppm
Chloroform	1.00 ppm	1.07 ppm
Tetrahydrofuran	1.00 ppm	1.09 ppm
1,2-Dichloroethane	1.00 ppm	1.04 ppm
1,1,1-Trichloroethane	1.00 ppm	1.03 ppm
Benzene	1.00 ppm	1.03 ppm
1-Butanol	1.00 ppm	1.10 ppm
Carbon Tetrachloride	1.00 ppm	1.05 ppm
Cyclohexane	1.00 ppm	1.08 ppm
Dibromomethane	1.00 ppm	1.01 ppm
1,2-Dichloropropane	1.00 ppm	1.03 ppm
Trichloroethylene	1.00 ppm	1.04 ppm
Bromodichloromethane	1.00 ppm	1.04 ppm
1,4-Dioxane	1.00 ppm	1.04 ppm
2,2,4-Trimethylpentane	1.00 ppm	1.04 ppm
Methyl Methacrylate	1.00 ppm	1.06 ppm
Heptane	1.00 ppm	1.07 ppm
Cis-1,3-Dichloropropene	1.00 ppm	1.04 ppm
Methyl Isobutyl Ketone	1.00 ppm	1.07 ppm
Trans-1,3-Dichloropropene	1.00 ppm	1.10 ppm
1,1,2-Trichloroethane	1.00 ppm	1.01 ppm
Toluene	1.00 ppm	1.04 ppm
Methyl Butyl Ketone	1.00 ppm	1.08 ppm
Dibromochloromethane	1.00 ppm	1.10 ppm
1,2-Dibromoethane	1.00 ppm	0.99 ppm
n-Octane	1.00 ppm	1.04 ppm



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PAGE: 3 of 4

**CERTIFICATE
 OF
 ANALYSIS**

SGI ORDER # : 0082390
 ITEM# : 1
 CERTIFICATION DATE: 12/28/2005
 P.O.# : 2129987
 BLEND TYPE: CERTIFIED

CYLINDER # : CC-230119
 CYLINDER PRES: 2000 psig
 CYLINDER VALVE: CGA 350
 PRODUCT EXPIRATION DATE: 12/28/2006



439437
 ID: ATTO15LCSs_00011
 Exp:12/05/13 Prpd:WRD Opn:12/14/10
 TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Tetrachloroethylene	1.00 ppm	1.02 ppm
Chlorobenzene	1.00 ppm	1.03 ppm
Ethylbenzene	1.00 ppm	1.04 ppm
p-Xylene	1.00 ppm	1.03 ppm
m-Xylene	1.00 ppm	1.03 ppm
Bromoform	1.00 ppm	1.03 ppm
Styrene	1.00 ppm	1.03 ppm
O-Xylene	1.00 ppm	1.02 ppm
1,1,2,2-Tetrachloroethane	1.00 ppm	1.02 ppm
1,2,3-Trichloropropane	1.00 ppm	1.04 ppm
Nonane	1.00 ppm	1.04 ppm
Cumene	1.00 ppm	1.07 ppm
2-Chlorotoluene	1.00 ppm	1.09 ppm
n-Propylbenzene	1.00 ppm	1.05 ppm
4-Ethyltoluene	1.00 ppm	1.10 ppm
1,3,5-Trimethylbenzene	1.00 ppm	1.04 ppm
a-Methylstyrene (no stability guarantee)	1.00 ppm	1.06 ppm
Tert-Butylbenzene	1.00 ppm	1.03 ppm
1,2,4-Trimethylbenzene	1.00 ppm	1.04 ppm
1,3-Dichlorobenzene	1.00 ppm	1.07 ppm
Benzyl Chloride (no stability guarantee)	1.00 ppm	1.07 ppm
n-Decane	1.00 ppm	1.03 ppm
1,4-Dichlorobenzene	1.00 ppm	1.01 ppm
Sec-Butylbenzene	1.00 ppm	1.03 ppm
4-Isopropyltoluene	1.00 ppm	1.04 ppm
1,2-Dichlorobenzene	1.00 ppm	1.01 ppm
n-Butylbenzene	1.00 ppm	1.03 ppm
n-Undecane	1.00 ppm	1.06 ppm
1,2,4-Trichlorobenzene	1.00 ppm	1.09 ppm
Napthalene (no stability guarantee)	1.00 ppm	1.10 ppm

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PAGE: 4 of 4

**CERTIFICATE
OF
ANALYSIS**

SGI ORDER # : 0082390
ITEM# : 1
CERTIFICATION DATE: 12/28/2005
P.O.# : 2129987
BLEND TYPE: CERTIFIED

CYLINDER # : CC-230119
CYLINDER PRES: 2000 psig
CYLINDER VALVE: CGA 350
PRODUCT EXPIRATION DATE: 12/28/2006



439437
ID: ATTO15LCSs_00011
Exp:12/05/13 Pprd:WRD Opr:12/14/10
TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
n-Dodecane	1.00 ppm	1.08 ppm
1,2,3-Trichlorobenzene	1.00 ppm	1.03 ppm
Hexachloro-1,3-Butadiene	1.00 ppm	1.06 ppm
Nitrogen	Balance	Balance

ANALYST: April Chamberlain

April Chamberlain

DATE: 12/29/2005



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AT 02 008 13

Recat AT-02-010-13 exp 12/10/08

CERTIFICATE
OF
ANALYSIS

Instrument 1

SGI ORDER #: 101783
ITEM#: 1
CERTIFICATION DATE: 12/27/2006
P.O.#: 2172385
BLEND TYPE: CERTIFIED

CYLINDER #: CC-250115
CYLINDER PRES: 2000 psig
CYLINDER VALVE: CGA 350
PRODUCT EXPIRATION DATE: 12/27/2007

ANALYTICAL ACCURACY: +/- 10%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Bromochloromethane	100 ppb	103 ppb
1,4-Difluorobenzene	100 ppb	106 ppb
Chlorobenzene-d5	100 ppb	106 ppb
4-Bromofluorobenzene	100 ppb	107 ppb
Nitrogen	Balance	Balance



248052

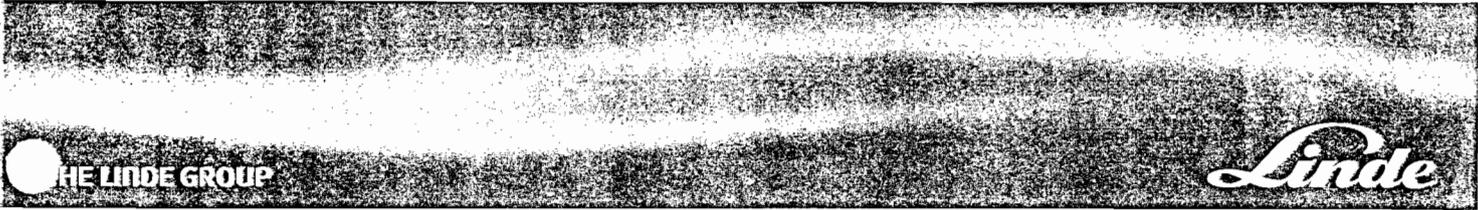
ID: ATTO15CISs_00005

Exp 11/15/15 Prod WFO Ops 12/01/10
Internal Standard for Ins

ANALYST:

April Chamberlain
April Chamberlain

DATE: 12/27/2006



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PAGE: 1 of 1

CERTIFICATE OF ANALYSIS

Sales#: 107763353
Production#: 1160209
Certification Date: 15/11/2010
P.O.# : 2391727
Blend Type: CERTIFIED
Material#: 24088974



Cylinder Size: 2A (8" X 47.5")
Cylinder # : CC-344439
Cylinder Pressure: 2000 psig
Cylinder Valve: CGA 350 / Steel
Cylinder Volume: 29.5 Liter
Cylinder Material: Aluminum
Gas Volume: 4000 Liter
Blend Tolerance: 10% Relative
Analytical Accuracy: 10% Relative

Expiration Date: 15/11/2011
Do NOT use under: 150 psig

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Bromochloromethane		100 ppb	104 ppb
1,4-Difluorobenzene		100 ppb	104 ppb
Chlorobenzene-d5		100 ppb	106 ppb
4-Bromofluorobenzene		100 ppb	104 ppb
Nitrogen		Balance	Balance

SOURCE REFERENCE# 269712

ANALYST: *Lou Lorenzetti*
 Lou Lorenzetti

DATE: 15/11/2010



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G

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AT02-00-13

CERTIFICATE
OF
ANALYSIS

SGI ORDER # :	140016	CYLINDER # :	CC-279057
ITEM# :	1	CYLINDER PRES:	2000 psig
CERTIFICATION DATE:	12/11/2008	CYLINDER VALVE:	CGA 350
P.O.# :	2282386	PRODUCT EXPIRATION DATE:	12/11/2009
BLEND TYPE:	CERTIFIED		

ANALYTICAL ACCURACY: +/-10%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Bromochloromethane	100 ppb	103 ppb
1,4-Difluorobenzene	100 ppb	106 ppb
Chlorobenzene-d5	100 ppb	107 ppb
4-Bromofluorobenzene	100 ppb	107 ppb
Nitrogen	Balance	Balance


 248058
 ID: ATTO15GIS_00006
 Exp. 11/15/15 Piped WFO Open 1301/10
 Instrument G Internal Sta

SOURCE REFERENCE # 260788

ANALYST: Matthew Booth
Matthew Booth

DATE: 12/11/2008

METHODOLOGY SUMMARY

Laboratory: TestAmerica Laboratories

Project No: NA

Location: South Burlington, Vermont

SDG No: 200-19673

VOA

Volatile Organics - NJDEP-LLTO-15

CASE NARRATIVE

Client: URS Corporation

Project: Pompton EISB

Report Number: 200-19673-1

The samples in this sample set were analyzed by the EPA Compendium Method TO-15 for specific volatile organic constituents. Unless otherwise noted below, the analytical work followed the requirements outlined in the New Jersey DEP guidelines.

The practice of the laboratory is to analyze one canister from each batch of canisters that have been cleaned for re-use in order to certify the batch. The canisters that were used for this sampling event were from multiple batches. The certifying analyses were free of target analytes down to the concentration levels that are contractually required (nominally 0.2 PPBV). In order to provide for the lower level of detection required for canister certification, the laboratory analyzed a 500 milliliter volume. The laboratory's established practice for the analysis of field samples is based on the analysis of a 200 milliliter sample volume. Documentation of the analytical work supporting canister certification is included in the "Clean Can Certification" section of this submittal. Documentation of canister vacuum as delivered to, and received from, the field is included in the "Clean Can Certification" section of this submittal.

Manual integration was employed in deriving certain of the analytical results. The values that have been derived from manual integration are qualified on the quantitation reports, and extracted ion current profiles are included in the data package.

The following details the column type and trap design that were used in the performance of the analytical work for the sample in this sample set:

Chromatography Column - Restek RTX-624
Length - 60 meters
Inner Diameter - 0.32 millimeters
Film thickness - 1.8 micrometers
Trap Design - Entech Model 7100A (glass bead and Tenax with cryo-focusing)

A summary of the laboratory's current Method Detection Limits (MDLs) has been provided as part of this submittal, immediately following this transmittal letter.

RECEIPT

The samples were received on 11/21/2013; the samples arrived in good condition.

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): . The container labels do not list the sample times. The COC lists start and end times. The end times from the COC were used for log-in.

VOLATILE ORGANIC COMPOUNDS

Samples SG-111913-SGP-01 and AA-111913-SGP-01 were analyzed for Volatile Organic Compounds in accordance with NJDEP-LLTO-15. The samples were analyzed on 12/04/2013.

No difficulties were encountered during the VOCs analysis.

All quality control parameters were within the acceptance limits.

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-19673-1
 SDG No.: 200-19673
 Instrument ID: B.i Analysis Batch Number: 65100
 Lab Sample ID: IC 200-65100/4 Client Sample ID:
 Date Analyzed: 11/21/13 11:49 Lab File ID: ble004.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST
Vinyl bromide	5.34	Baseline event	pd
			11/21/13 20:52

PAD 12/04/13

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-19673-1

SDG No.: 200-19673

Instrument ID: B.i Analysis Batch Number: 65100

Lab Sample ID: IC 200-65100/4 Client Sample ID: _____

Date Analyzed: 11/21/13 11:49 Lab File ID: ble004.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl bromide	5.34	Baseline event	pd	11/21/13 20:52

Project Name: NA
 Field ID Number: SG-111913-SGP-01
 Laboratory ID Number: 200-19673-1

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Sampling Date: 11/19/2013 15:13
 Analysis Date: 12/04/2013 05:32

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	2.0	U	5			
1,1-Dichloroethene	75-35-4	96.94	2.0	U	8			
1,2-Dichloroethene, trans-	156-60-5	96.94	2.0	U	8			
1,1-Dichloroethane	75-34-3	98.96	2.0	U	8			
1,2-Dichloroethene, cis-	156-59-2	96.94	2.0	U	8			
1,1,1-Trichloroethane	71-55-6	133.41	2.0	U	11			
Carbon tetrachloride	56-23-5	153.81	2.0	U	13			
1,2-Dichloroethane	107-06-2	98.96	2.0	U	8			
Trichloroethene	79-01-6	131.39	2.2		12			
Tetrachloroethene	127-18-4	165.83	22		150			

Project Name: NA
 Field ID Number: AA-111913-SGP-01
 Laboratory ID Number: 200-19673-2

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Sampling Date: 11/19/2013 15:13
 Analysis Date: 12/04/2013 06:24

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	2.0	U	5			
1,1-Dichloroethene	75-35-4	96.94	2.0	U	8			
1,2-Dichloroethene, trans-	156-60-5	96.94	2.0	U	8			
1,1-Dichloroethane	75-34-3	98.96	2.0	U	8			
1,2-Dichloroethene, cis-	156-59-2	96.94	2.0	U	8			
1,1,1-Trichloroethane	71-55-6	133.41	2.0	U	11			
Carbon tetrachloride	56-23-5	153.81	2.0	U	13			
1,2-Dichloroethane	107-06-2	98.96	2.0	U	8			
Trichloroethene	79-01-6	131.39	2.0	U	11			
Tetrachloroethene	127-18-4	165.83	2.0	U	14			

Project Name: NA
 Field ID Number:
 Laboratory ID Number: MB 200-65468/3

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Analysis Date: 12/03/2013 11:27

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	0.20	U	0.5			
1,1-Dichloroethene	75-35-4	96.94	0.20	U	0.8			
1,2-Dichloroethene, trans-	156-60-5	96.94	0.20	U	0.8			
1,1-Dichloroethane	75-34-3	98.96	0.20	U	0.8			
1,2-Dichloroethene, cis-	156-59-2	96.94	0.20	U	0.8			
1,1,1-Trichloroethane	71-55-6	133.41	0.20	U	1			
Carbon tetrachloride	56-23-5	153.81	0.20	U	1			
1,2-Dichloroethane	107-06-2	98.96	0.20	U	0.8			
Trichloroethene	79-01-6	131.39	0.20	U	1			
Tetrachloroethene	127-18-4	165.83	0.20	U	1			

DATA REPORTING QUALIFIERS

Client: URS Corporation

Job Number: 200-19673-1

Sdg Number: 200-19673

Lab Section	Qualifier	Description
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Air - GC/MS VOA

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Indicates the analyte was analyzed for but not detected.

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD:	NJDEPLL TO15	MATRIX:	AIR	QA Review:	Kirstin Daigle			
PREP METHOD:	NA	Instrument(s):	B, C, G	Date Approved:	5/7/2012			
CLEANUP METHOD(s):	NA			TALS Entry:	5/7/2012			
ANALYTE	CAS #	DL ppbv	DL Source ²	LOD ppbv	LOD REF	LOQ ppbv	LOD/DL Ratio	LOQ/LOD Ratio
1,1,1-Trichloroethane	71-55-6	0.020	40CFR	0.080	LOD3	0.20	4.0	2.5
1,1,2,2-Tetrachloroethane	79-34-5	0.011	40CFR	0.040	LOD2	0.20	3.7	5.0
1,1,2-Trichloroethane	79-00-5	0.016	40CFR	0.040	LOD2	0.20	2.6	5.0
1,1-Dichloroethane	75-34-3	0.023	40CFR	0.080	LOD3	0.20	3.5	2.5
1,1-Dichloroethene	75-35-4	0.086	40CFR	0.20	LOD4	0.20	2.3	1.0
1,2,4-Trichlorobenzene	120-82-1	0.030	40CFR	0.080	LOD3	0.50	2.7	6.3
1,2,4-Trimethylbenzene	95-63-6	0.021	40CFR	0.080	LOD3	0.20	3.9	2.5
1,2-Dibromoethane	106-93-4	0.014	40CFR	0.040	LOD2	0.20	2.8	5.0
1,2-Dichlorobenzene	95-50-1	0.026	40CFR	0.080	LOD3	0.20	3.1	2.5
1,2-Dichloroethane	107-06-2	0.018	40CFR	0.040	LOD2	0.20	2.2	5.0
1,2-Dichloropropane	78-87-5	0.023	40CFR	0.080	LOD3	0.20	3.4	2.5
1,2-Dichlorotetrafluoroethane	76-14-2	0.020	40CFR	0.080	LOD3	0.20	4.0	2.5
1,3,5-Trimethylbenzene	108-67-8	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
1,3-Butadiene	106-99-0	0.025	40CFR	0.080	LOD3	0.20	3.3	2.5
1,3-Dichlorobenzene	541-73-1	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
1,4-Dichlorobenzene	106-46-7	0.018	40CFR	0.040	LOD2	0.20	2.2	5.0
1,4-Dioxane	123-91-1	0.070	40CFR	0.20	LOD4	5.0	2.8	25.0
2,2,4-Trimethylpentane	540-84-1	0.015	40CFR	0.040	LOD2	0.20	2.8	5.0
2-Chlorotoluene	95-49-8	0.013	40CFR	0.040	LOD2	0.20	3.1	5.0
3-Chloropropene	107-05-1	0.047	40CFR	0.080	LOD3	0.20	1.7	2.5
4-Ethyltoluene	622-96-8	0.015	40CFR	0.040	LOD2	0.20	2.6	5.0
Acetone	67-64-1	0.40	LTB	0.50	LOD5	5.0	1.3	10.0
Benzene	71-43-2	0.018	40CFR	0.040	LOD2	0.20	2.2	5.0
Bromodichloromethane	75-27-4	0.012	40CFR	0.040	LOD2	0.20	3.4	5.0
Bromoethene(Vinyl Bromide)	593-60-2	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
Bromoform	75-25-2	0.0072	40CFR	0.028	LOD1	0.20	3.9	7.1
Bromomethane	74-83-9	0.027	40CFR	0.080	LOD3	0.20	3.0	2.5
Carbon disulfide	75-15-0	0.020	40CFR	0.080	LOD3	0.50	3.9	6.3
Carbon tetrachloride	56-23-5	0.013	40CFR	0.040	LOD2	0.040	3.0	1.0
Chlorobenzene	108-90-7	0.013	40CFR	0.040	LOD2	0.20	3.0	5.0
Chloroethane	75-00-3	0.033	40CFR	0.080	LOD3	0.50	2.4	6.3
Chloroform	67-66-3	0.024	40CFR	0.080	LOD3	0.20	3.4	2.5
Chloromethane	74-87-3	0.034	LTB	0.080	LOD3	0.50	2.4	6.3
cis-1,2-Dichloroethene	156-59-2	0.084	40CFR	0.20	LOD4	0.20	2.4	1.0
cis-1,3-Dichloropropene	10061-01-5	0.013	40CFR	0.040	LOD2	0.20	3.2	5.0
Cyclohexane	110-82-7	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
Dibromochloromethane	124-48-1	0.011	40CFR	0.040	LOD2	0.20	3.6	5.0

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD:	NJDEPLL TO15	MATRIX:	AIR	QA Review:	Kirstin Daigle			
PREP METHOD:	NA	Instrument(s):	B, C, G	Date Approved:	5/7/2012			
CLEANUP METHOD(s):	NA			TALS Entry:	5/7/2012			
ANALYTE	CAS #	DL ppbv	DL Source ²	LOD ppbv	LOD REF	LOQ ppbv	LOD/DL Ratio	LOQ/LOD Ratio
Dichlorodifluoromethane	75-71-8	0.020	40CFR	0.080	LOD3	0.50	3.9	6.3
Ethylbenzene	100-41-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Freon TF	76-13-1	0.020	40CFR	0.080	LOD3	0.20	3.9	2.5
Hexachlorobutadiene	87-68-3	0.029	40CFR	0.080	LOD3	0.20	2.8	2.5
Isopropyl alcohol	67-63-0	0.076	40CFR	0.20	LOD4	5.0	2.6	25.0
m,p-Xylene	179601-23-1	0.022	40CFR	0.040	LOD2	0.50	1.8	12.5
Methyl Ethyl Ketone	78-93-3	0.025	40CFR	0.080	LOD3	0.50	3.2	6.3
Methyl isobutyl ketone	108-10-1	0.034	40CFR	0.080	LOD3	0.50	2.4	6.3
Methyl methacrylate	80-62-6	0.016	40CFR	0.040	LOD2	0.50	2.5	12.5
Methyl tert-butyl ether	1634-04-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Methylene Chloride	75-09-2	0.023	40CFR	0.080	LOD3	0.50	3.5	6.3
n-Heptane	142-82-5	0.017	40CFR	0.040	LOD2	0.20	2.4	5.0
n-Hexane	110-54-3	0.020	40CFR	0.080	LOD3	0.20	3.9	2.5
Styrene	100-42-5	0.011	40CFR	0.040	LOD2	0.20	3.6	5.0
tert-Butyl alcohol	75-65-0	0.041	40CFR	0.080	LOD3	5.0	2.0	62.4
Tetrachloroethene	127-18-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Tetrahydrofuran	109-99-9	0.029	40CFR	0.080	LOD3	5.0	2.7	62.4
Toluene	108-88-3	0.014	40CFR	0.040	LOD2	0.20	2.8	5.0
trans-1,2-Dichloroethene	156-60-5	0.023	40CFR	0.080	LOD3	0.20	3.5	2.5
trans-1,3-Dichloropropene	10061-02-6	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Trichloroethene	79-01-6	0.0092	40CFR	0.028	LOD1	0.20	3.1	7.1
Trichlorofluoromethane	75-69-4	0.021	40CFR	0.080	LOD3	0.20	3.9	2.5
Vinyl chloride	75-01-4	0.0091	40CFR	0.028	LOD1	0.20	3.1	7.1
Xylene, o-	95-47-6	0.016	40CFR	0.040	LOD2	0.20	2.4	5.0

¹: Summary Analyte. The DL, LOD and LOQ are set to the value equal to the lowest DL, LOD and LOQ of the component analytes.

²: 40CFR = DL is taken from 40CFR MDL Study. LTB = DL calculated from Long Term Evaluation of Method Blanks

Detection Limit (DL) Study Report

TEST METHOD:		NJDELL TO15		Prep Date:		01/16/12							
PREP METHOD:		NA		Initial Amount:		200 mL							
CLEANUP METHOD(s):		NA		Final Amount:		200 mL							
MATRIX:													
AIR													
ANALYTE	CAS #	Spike ppbv	01/16/12		01/16/12		01/16/12						
			REP 1 ppbv	REP 2 ppbv	REP 3 ppbv	REP 4 ppbv	REP 5 ppbv	REP 6 ppbv	REP 7 ppbv				
Instrument ID:	Date Analyzed:	C	C	C	C	C	C	C					
Column Type:	Instrument ID:	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624					
Average %R	Mean ppbv	STD DEV	DL ppbv	Spike/DL Ratio									
Bromoform	75-25-2	0.050	0.045891	0.041705	0.040813	0.045382	0.043964	0.039841	0.042451	0.043	0.00229	0.0072	6.9
Bromomethane	74-83-9	0.10	0.130761	0.125472	0.136931	0.139073	0.112846	0.128623	0.126832	0.129	0.00861	0.027	3.7
Carbon disulfide	75-15-0	0.050	0.075073	0.058149	0.057821	0.069229	0.067015	0.059374	0.062664	0.064	0.00651	0.020	2.4
Chlorobenzene	108-90-7	0.10	0.102284	0.103269	0.112214	0.11103	0.102188	0.108552	0.103462	0.106	0.00420	0.013	7.6
Chloroethane	75-00-3	0.10	0.122704	0.112536	0.123091	0.135228	0.100856	0.120214	0.120826	0.119	0.01056	0.033	3.0
Chloroform	67-66-3	0.10	0.113871	0.109272	0.121736	0.117094	0.099934	0.119677	0.10854	0.113	0.00756	0.024	4.2
Chloromethane	74-87-3	0.050	0.127751	0.106998	0.116366	0.118031	0.09826	0.119097	0.109065	0.114	0.00964	0.030	1.6
cis-1,2-Dichloroethene	156-59-2	0.10	0.112903	0.087185	0.15046	0.113794	0.081309	0.137783	0.0884	0.110	0.02659	0.084	1.2
cis-1,3-Dichloropropene	10061-01-5	0.10	0.106437	0.106466	0.110124	0.109975	0.09883	0.109418	0.104207	0.106	0.00404	0.013	7.9
Cumene	98-82-8	0.10	0.085224	0.088124	0.091429	0.08698	0.083612	0.090868	0.081757	0.087	0.00360	0.011	8.8
Cyclohexane	110-82-7	0.10	0.102476	0.092597	0.104788	0.109388	0.098017	0.11024	0.103469	0.103	0.00619	0.019	5.1
Dibromochloromethane	124-48-1	0.10	0.085564	0.087052	0.09343	0.091867	0.084292	0.085365	0.085664	0.088	0.00357	0.011	8.9
Dibromomethane	74-95-3	0.10	0.104595	0.107389	0.109047	0.107532	0.096097	0.107164	0.098533	0.104	0.00502	0.016	6.3
Dichlorodifluoromethane	75-71-8	0.10	0.125414	0.126865	0.127053	0.134674	0.122344	0.120975	0.113685	0.124	0.00646	0.020	4.9
Ethanol	64-17-5	1.00	0.969299	1.020308	1.070641	1.039724	0.956727	1.006232	0.900894	0.995	0.05696	0.179	5.6
Ethyl acetate	141-78-6	0.50	0.429368	0.472311	0.454595	0.456607	0.447219	0.465664	0.495475	0.460	0.02075	0.065	7.6
Ethyl ether	60-29-7	0.10	0.093526	0.100116	0.106814	0.099036	0.08939	0.102939	0.094416	0.098	0.00598	0.019	5.3
Ethylbenzene	100-41-4	0.10	0.090417	0.092208	0.095145	0.097014	0.083311	0.096034	0.092317	0.092	0.00463	0.015	6.9
Freon 22	75-45-6	0.10	0.150983	0.139723	0.141181	0.142633	0.132819	0.13492	0.128858	0.139	0.00729	0.023	4.4
Freon TF	76-13-1	0.10	0.107548	0.105615	0.113483	0.116446	0.096401	0.111776	0.108877	0.109	0.00651	0.020	4.9
Hexachlorobutadiene	87-68-3	0.10	0.097644	0.071429	0.074537	0.0913	0.087521	0.085486	0.080987	0.084	0.00922	0.029	3.4
Isopentane	78-78-4	0.10	0.127579	0.187384	0.169759	0.17624	0.141859	0.159417	0.154617	0.160	0.02048	0.064	1.6
Isopropyl alcohol	67-63-0	0.50	0.572061	0.521524	0.50583	0.515674	0.541903	0.502692	0.535203	0.528	0.02419	0.076	6.6
m,p-Xylene	179601-23-1	0.20	0.162862	0.171383	0.181162	0.17433	0.166483	0.180529	0.169046	0.172	0.00689	0.022	9.2
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.50	0.483758	0.451819	0.477876	0.469687	0.482335	0.470408	0.454572	0.470	0.01273	0.040	12.5
Methyl Ethyl Ketone	78-93-3	0.10	0.078894	0.082858	0.089406	0.078321	0.076614	0.08675	0.065473	0.080	0.00783	0.025	4.1
Methyl isobutyl ketone	108-10-1	0.50	0.487199	0.487166	0.491268	0.497069	0.489725	0.508268	0.47318	0.491	0.01066	0.034	14.9
Methyl methacrylate	80-62-6	0.10	0.062633	0.069693	0.075979	0.077813	0.072156	0.072629	0.068253	0.071	0.00506	0.016	6.3
Methyl tert-butyl ether	1634-04-4	0.10	0.096	0.106222	0.105087	0.101422	0.094621	0.101694	0.095566	0.100	0.00473	0.015	6.7
Methylene Chloride	75-09-2	0.10	0.186679	0.180651	0.190941	0.19634	0.17427	0.184107	0.182069	0.185	0.00719	0.023	4.4
Naphthalene	91-20-3	0.10	0.095391	0.069495	0.067525	0.070833	0.078978	0.094064	0.069779	0.078	0.01199	0.038	2.6
n-Butane	106-97-8	0.050	0.09185	0.074788	0.074602	0.085903	0.077214	0.072987	0.081057	0.080	0.00694	0.022	2.3
n-Butanol	71-36-3	0.50	0.60719	0.668807	0.573518	0.531713	0.568194	0.634713	0.604817	0.598	0.04541	0.143	3.5

Detection Limit (DL) Study Report

TEST METHOD:		NJDELL TO15		Prep Date:		01/16/12							
PREP METHOD:		NA		Initial Amount:		200 mL							
CLEANUP METHOD(S):		NA		Final Amount:		200 mL							
MATRIX:		AIR											
ANALYTE	CAS #	Date Analyzed:	Spike ppbv	01/16/12		01/16/12		Mean ppbv	Average %R	STD DEV	DL ppbv	Spike/DL Ratio	
				C	REP 1 ppbv	C	REP 2 ppbv						C
Instrument ID:	Column Type:	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	
n-Butylbenzene	104-51-8	0.050	0.048137	0.028586	0.029114	0.03042	0.035355	0.029657	0.031059	0.00696	0.022	2.3	
n-Decane	124-18-5	0.050	0.036546	0.022044	0.020162	0.023891	0.026808	0.0212	0.026588	0.00557	0.018	2.9	
n-Dodecane	112-40-3	0.50	0.627098	0.480578	0.473868	0.474722	0.571975	0.47566	0.497409	0.06078	0.191	2.6	
n-Heptane	142-82-5	0.10	0.09942	0.10363	0.111768	0.109175	0.097895	0.109455	0.10716	0.00531	0.017	6.0	
n-Hexane	110-54-3	0.050	0.073875	0.05334	0.057888	0.064359	0.063601	0.06049	0.065062	0.00645	0.020	2.5	
n-Nonane	111-84-2	0.050	0.050916	0.041586	0.043278	0.04702	0.043524	0.045371	0.044423	0.00307	0.010	5.2	
n-Octane	111-65-9	0.10	0.102898	0.102016	0.109872	0.10588	0.0989	0.109196	0.108147	0.00412	0.013	7.7	
n-Pentane	109-66-0	0.10	0.113422	0.112879	0.122504	0.124181	0.10199	0.115375	0.119221	0.00744	0.023	4.3	
n-Propylbenzene	103-65-1	0.050	0.045237	0.034802	0.031889	0.037885	0.039789	0.03589	0.036715	0.00423	0.013	3.8	
n-Undecane	1120-21-4	0.50	0.264815	0.245186	0.235354	0.243748	0.260431	0.239573	0.244349	0.01085	0.034	14.6	
Propylene	115-07-1	0.50	0.60298	0.617479	0.605271	0.627917	0.623967	0.691435	0.636873	0.02988	0.094	5.3	
sec-Butylbenzene	135-98-8	0.10	0.073975	0.076789	0.078233	0.081733	0.076792	0.073771	0.066755	0.00468	0.015	6.8	
Styrene	100-42-5	0.050	0.044637	0.038055	0.034198	0.04162	0.03885	0.036069	0.040379	0.00349	0.011	4.6	
tert-Butyl alcohol	75-65-0	0.50	0.508232	0.496266	0.480641	0.489734	0.509943	0.513052	0.514001	0.01296	0.041	12.3	
tert-Butylbenzene	98-06-6	0.050	0.0437	0.035827	0.032872	0.039288	0.040358	0.036458	0.038936	0.00350	0.011	4.5	
Tetrachloroethene	127-18-4	0.10	0.102889	0.103282	0.109897	0.111806	0.098738	0.10689	0.101255	0.00473	0.015	6.7	
Tetrahydrofuran	109-99-9	0.50	0.526214	0.508039	0.517002	0.536047	0.522949	0.511868	0.51802	0.00937	0.029	16.9	
Toluene	108-88-3	0.10	0.101053	0.100661	0.106148	0.108643	0.097266	0.109432	0.104239	0.00449	0.014	7.1	
trans-1,2-Dichloroethene	156-60-5	0.10	0.107583	0.103375	0.113143	0.112858	0.092156	0.108578	0.109256	0.00722	0.023	4.4	
trans-1,3-Dichloropropene	10061-02-6	0.10	0.095167	0.098962	0.106149	0.106491	0.095199	0.102061	0.09792	0.00475	0.015	6.7	
Trichlorofluoromethane	75-69-4	0.050	0.077581	0.059176	0.059963	0.071561	0.065175	0.064871	0.069117	0.00653	0.021	2.4	
Vinyl acetate	108-05-4	0.50	0.494487	0.509174	0.494689	0.500711	0.516169	0.498506	0.498208	0.00806	0.025	19.7	
Xylene, o-	95-47-6	0.10	0.087382	0.088147	0.097469	0.093614	0.086955	0.091865	0.081519	0.00520	0.016	6.1	

Limit of Detection (LOD) Verification Report

TEST METHOD:		NJDEPLLO15		Prep Date:	1/31/2012, 02/06/12		Instrument(s):					
PREP METHOD:		NA		Initial Amount:	200 mL		B			C		
CLEANUP METHOD(s):		NA		Final Amount:	200 mL		RTX-624			RTX-624		
MATRIX:		AIR		LOD Ref:	1							
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
Bromoform	75-25-2	0.0072	0.0072	0.028	3.9	Y	0.0236358	01/31/12	0.0269937	02/06/12	0.0310274	01/31/12
Trichloroethene	79-01-6	0.0092	0.0092	0.028	3.1	Y	0.0369347	01/31/12	0.0357282	02/06/12	0.0370572	01/31/12
Vinyl chloride	75-01-4	0.0091	0.0091	0.028	3.1	Y	0.0382497	01/31/12	0.0271757	02/06/12	0.0427657	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLO15		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
	PREP METHOD:	NA	Initial Amount:	200 mL	B			C			G	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624			RTX-624			RTX-624		
MATRIX:	AIR	LOD Ref:	2									
ANALYTE	CAS #	ppbv	ppbv	Spike	Spike/DL	Pass	Result	Date	Result	Date	Result	Date
				ppbv	Ratio	Y/N	ppbv	Analyzed	ppbv	Analyzed	ppbv	Analyzed
1,1,2,2-Tetrachloroethane	79-34-5	0.011	0.040	0.040	3.6	Y	0.0439484	01/30/12	0.0367094	01/30/12	0.0368553	01/31/12
1,1,2-Trichloroethane	79-00-5	0.016	0.040	0.040	2.5	Y	0.04085	01/30/12	0.0383681	01/30/12	0.0375874	01/31/12
1,2-Dibromoethane	106-93-4	0.014	0.040	0.040	2.9	Y	0.0382115	01/30/12	0.0373325	01/30/12	0.0413789	01/31/12
1,2-Dichloroethane	107-06-2	0.018	0.040	0.040	2.2	Y	0.043269	01/30/12	0.044657	01/30/12	0.0427347	01/31/12
1,3,5-Trimethylbenzene	108-67-8	0.019	0.040	0.040	2.1	Y	0.0448217	01/30/12	0.0356625	01/30/12	0.0229489	01/31/12
1,3-Dichlorobenzene	541-73-1	0.019	0.040	0.040	2.1	Y	0.0440867	01/30/12	0.0375736	01/30/12	0.0483551	01/31/12
1,4-Dichlorobenzene	106-46-7	0.018	0.040	0.040	2.2	Y	0.0467479	01/30/12	0.0378337	01/30/12	0.0332018	01/31/12
2,2,4-Trimethylpentane	540-84-1	0.015	0.040	0.040	2.7	Y	0.0458012	01/30/12	0.0432881	01/30/12	0.0413784	01/31/12
2-Chlorotoluene	95-49-8	0.013	0.040	0.040	3.1	Y	0.0477588	01/30/12	0.0398619	01/30/12	0.0273756	01/31/12
4-Ethyltoluene	622-96-8	0.015	0.040	0.040	2.7	Y	0.0413871	01/30/12	0.03224089	01/30/12	0.0183816	01/31/12
Alpha Methyl Styrene	98-83-9	0.018	0.040	0.040	2.2	Y	0.0283359	01/30/12	0.0241925	01/30/12	0.0361873	01/31/12
Benzene	71-43-2	0.018	0.040	0.040	2.2	Y	0.0566347	01/30/12	0.0538394	01/30/12	0.0488064	01/31/12
Bromodichloromethane	75-27-4	0.012	0.040	0.040	3.3	Y	0.0416361	01/30/12	0.0401186	01/30/12	0.0400368	01/31/12
Bromoethene(Vinyl Bromide)	593-60-2	0.019	0.040	0.040	2.1	Y	0.0477646	01/30/12	0.0390748	01/30/12	0.0509984	01/31/12
Carbon tetrachloride	56-23-5	0.019	0.040	0.040	2.1	Y	0.0450564	01/30/12	0.0453807	01/30/12	0.0445167	01/31/12
Chlorobenzene	108-90-7	0.013	0.040	0.040	3.1	Y	0.0509605	01/30/12	0.0454508	01/30/12	0.0435362	01/31/12
cis-1,3-Dichloropropene	10061-01-5	0.013	0.040	0.040	3.1	Y	0.0409175	01/30/12	0.0482381	01/30/12	0.048195	01/31/12
Cumene	98-82-8	0.011	0.040	0.040	3.6	Y	0.0423284	01/30/12	0.0378653	01/30/12	0.0334343	01/31/12
Cyclohexane	110-82-7	0.013	0.040	0.040	3.1	Y	0.0501248	01/30/12	0.0390593	01/30/12	0.0475519	01/31/12
Dibromochloromethane	124-48-1	0.011	0.040	0.040	3.6	Y	0.0355362	01/30/12	0.0354374	01/30/12	0.0358777	01/31/12
Dibromomethane	74-95-3	0.016	0.040	0.040	2.5	Y	0.0458574	01/30/12	0.0384973	01/30/12	0.0533226	01/31/12
Ethyl ether	60-29-7	0.019	0.040	0.040	2.1	Y	0.0360172	01/30/12	0.0208922	01/30/12	0.0468287	01/31/12
Ethylbenzene	100-41-4	0.015	0.040	0.040	2.7	Y	0.0470157	01/30/12	0.0410152	01/30/12	0.031831	01/31/12
m,p-Xylene	179601-23-1	0.022	0.080	0.080	3.7	Y	0.0866301	01/30/12	0.0737886	01/30/12	0.0660686	01/31/12
Methyl methacrylate	80-62-6	0.016	0.040	0.040	2.5	Y	0.0206074	01/30/12	0.0208438	01/30/12	0.0234625	01/31/12
Methyl tert-butyl ether	1634-04-4	0.015	0.040	0.040	2.7	Y	0.0444376	01/30/12	0.0448008	01/30/12	0.0421109	01/31/12
n-Decane	124-18-5	0.010	0.040	0.040	4.0	Y	0.0452386	01/30/12	0.0212837	01/30/12	0.0306513	01/31/12
n-Heptane	142-82-5	0.017	0.040	0.040	2.4	Y	0.0479421	01/30/12	0.0424606	01/30/12	0.0476082	01/31/12
n-Nonane	111-84-2	0.010	0.040	0.040	4.0	Y	0.0450012	01/30/12	0.035101	01/30/12	0.0350987	01/31/12
n-Octane	111-65-9	0.013	0.040	0.040	3.1	Y	0.0462756	01/30/12	0.0443126	01/30/12	0.0605262	01/31/12
n-Propylbenzene	103-65-1	0.013	0.040	0.040	3.1	Y	0.0471636	01/30/12	0.0289208	01/30/12	0.0273027	01/31/12
sec-Butylbenzene	135-98-8	0.015	0.040	0.040	2.7	Y	0.044853	01/30/12	0.0347986	01/30/12	0.0245313	01/31/12
Styrene	100-42-5	0.011	0.040	0.040	3.6	Y	0.0313848	01/30/12	0.0323169	01/30/12	0.0333362	01/31/12
tert-Butylbenzene	98-06-6	0.011	0.040	0.040	3.6	Y	0.043188	01/30/12	0.0312036	01/30/12	0.0288258	01/31/12
Tetrachloroethene	127-18-4	0.015	0.040	0.040	2.7	Y	0.0432741	01/30/12	0.041753	01/30/12	0.0617601	01/31/12
Toluene	108-88-3	0.014	0.040	0.040	2.9	Y	0.0469235	01/30/12	0.0421189	01/30/12	0.0477686	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:		NJDEPLLO15		Prep Date:		01/30/12, 01/31/12		Instrument(s):			
PREP METHOD:		NA		Initial Amount:		200 mL		B		C	
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624		RTX-624	
MATRIX:		AIR		LOD Ref:		2					
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Date Analyzed
trans-1,3-Dichloropropene	10061-02-6	0.015	0.015	0.040	2.7	Y	0.0354448	01/30/12	0.0450151	01/30/12	01/31/12
Xylene, o-	95-47-6	0.016	0.016	0.040	2.5	Y	0.0416562	01/30/12	0.0359343	01/30/12	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLT015		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
	PREP METHOD:	NA	Initial Amount:	200 mL	B			C			G	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624			RTX-624			RTX-624		
MATRIX:	AIR	LOD Ref:	3									
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
1,1,1-Trichloroethane	71-55-6	0.020	0.080	0.080	4.0	Y	0.0847092	01/30/12	0.085857	01/30/12	0.1010164	01/31/12
1,1-Dichloroethane	75-34-3	0.023	0.080	0.080	3.5	Y	0.0931831	01/30/12	0.0857771	01/30/12	0.0986975	01/31/12
1,2,3-Trichlorobenzene	87-61-6	0.041	0.080	0.080	2.0	Y	0.0539692	01/30/12	0.0771812	01/30/12	0.0473325	01/31/12
1,2,3-Trichloropropane	96-18-4	0.025	0.080	0.080	3.2	Y	0.0977633	01/30/12	0.0754392	01/30/12	0.0944615	01/31/12
1,2,4-Trichlorobenzene	120-82-1	0.030	0.080	0.080	2.7	Y	0.0566003	01/30/12	0.0789511	01/30/12	0.0435911	01/31/12
1,2,4-Trimethylbenzene	95-63-6	0.021	0.080	0.080	3.8	Y	0.0829333	01/30/12	0.0685175	01/30/12	0.0631691	01/31/12
1,2-Dichlorobenzene	95-50-1	0.026	0.080	0.080	3.1	Y	0.085858	01/30/12	0.0752173	01/30/12	0.0806144	01/31/12
1,2-Dichloropropane	78-87-5	0.023	0.080	0.080	3.5	Y	0.0891035	01/30/12	0.0819475	01/30/12	0.0842903	01/31/12
1,2-Dichlorotetrafluoroethane	76-14-2	0.020	0.080	0.080	4.0	Y	0.0942239	01/30/12	0.0950581	01/30/12	0.0974105	01/31/12
1,3-Butadiene	106-99-0	0.025	0.080	0.080	3.2	Y	0.0955856	01/30/12	0.088752	01/30/12	0.084439	01/31/12
3-Chloropropene	107-05-1	0.047	0.080	0.080	1.7	Y	0.0993075	01/30/12	0.091879	01/30/12	0.1066344	01/31/12
4-Isopropyltoluene	99-87-6	0.020	0.080	0.080	4.0	Y	0.0788073	01/30/12	0.0615909	01/30/12	0.0668848	01/31/12
Acrylonitrile	107-13-1	0.023	0.080	0.080	3.5	Y	0.0697887	01/30/12	0.0685497	01/30/12	0.0882696	01/31/12
Benzyl chloride	100-44-7	0.022	0.080	0.080	3.6	Y	0.0765995	01/30/12	0.0641082	01/30/12	0.0700765	01/31/12
Bromomethane	74-83-9	0.027	0.080	0.080	3.0	Y	0.0930672	01/30/12	0.1028085	01/30/12	0.0944654	01/31/12
Carbon disulfide	75-15-0	0.020	0.080	0.080	4.0	Y	0.0905713	01/30/12	0.0853358	01/30/12	0.0909487	01/31/12
Chloroethane	75-00-3	0.033	0.080	0.080	2.4	Y	0.0917268	01/30/12	0.089895	01/30/12	0.1090466	01/31/12
Chloroform	67-66-3	0.024	0.080	0.080	3.3	Y	0.0919575	01/30/12	0.0870513	01/30/12	0.0988419	01/31/12
Chloromethane	74-87-3	0.034	0.080	0.080	2.4	Y	0.1161505	01/30/12	0.1338395	01/30/12	0.1092541	01/31/12
Dichlorodifluoromethane	75-71-8	0.020	0.080	0.080	4.0	Y	0.0970985	01/30/12	0.0993256	01/30/12	0.1069844	01/31/12
Freon 22	75-45-6	0.023	0.080	0.080	3.5	Y	0.1103272	01/30/12	0.1130052	01/30/12	0.1133509	01/31/12
Freon TF	76-13-1	0.020	0.080	0.080	4.0	Y	0.0864918	01/30/12	0.0909698	01/30/12	0.0951117	01/31/12
Hexachlorobutadiene	87-68-3	0.029	0.080	0.080	2.8	Y	0.088581	01/30/12	0.0782484	01/30/12	0.1003174	01/31/12
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.040	0.080	0.080	2.0	Y	0.0498435	01/30/12	0.0577654	01/30/12	0.0609178	01/31/12
Methyl Ethyl Ketone	78-93-3	0.025	0.080	0.080	3.2	Y	0.0872113	01/30/12	0.0687485	01/30/12	0.1159597	01/31/12
Methyl isobutyl ketone	108-10-1	0.034	0.080	0.080	2.4	Y	0.0662186	01/30/12	0.0665661	01/30/12	0.0747982	01/31/12
Methylene Chloride	75-09-2	0.023	0.080	0.080	3.5	Y	0.151845	01/30/12	0.1578643	01/30/12	0.129091	01/31/12
Naphthalene	91-20-3	0.038	0.080	0.080	2.1	Y	0.0384757	01/30/12	0.0722274	01/30/12	0.024552	01/31/12
n-Butane	106-97-8	0.022	0.080	0.080	3.6	Y	0.100763	01/30/12	0.0958848	01/30/12	0.1046282	01/31/12
n-Butylbenzene	104-51-8	0.022	0.080	0.080	3.6	Y	0.0837784	01/30/12	0.0570576	01/30/12	0.0580806	01/31/12
n-Hexane	110-54-3	0.020	0.080	0.080	4.0	Y	0.0873752	01/30/12	0.0821212	01/30/12	0.08679	01/31/12
n-Pentane	109-66-0	0.023	0.080	0.080	3.5	Y	0.1048033	01/30/12	0.0910497	01/30/12	0.0965429	01/31/12
n-Undecane	1120-21-4	0.034	0.080	0.080	2.4	Y	0.1022867	01/30/12	0.0466734	01/30/12	0.0571363	01/31/12
tert-Butyl alcohol	75-65-0	0.041	0.080	0.080	2.0	Y	0.0774393	01/30/12	0.0757495	01/30/12	0.0971297	01/31/12
Tetrahydrofuran	109-99-9	0.029	0.080	0.080	2.8	Y	0.0860254	01/30/12	0.0813159	01/30/12	0.0882096	01/31/12
trans-1,2-Dichloroethene	156-60-5	0.023	0.080	0.080	3.5	Y	0.0847762	01/30/12	0.0794756	01/30/12	0.0924157	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLT015	Prep Date:	01/30/12, 01/31/12	Instrument(s):			
PREP METHOD:	NA	Initial Amount:	200 mL	B		C	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624		RTX-624	
MATRIX:	AIR	LOD Ref:	3				
ANALYTE	CAS #	ppbv	Spike	Spike/DL	Pass	Date	Date
		ppbv	ppbv	Ratio	Y/N	Analyzed	Analyzed
Trichlorofluoromethane	75-69-4	0.021	0.080	3.8	Y	01/30/12	01/30/12
Vinyl acetate	108-05-4	0.025	0.080	3.2	Y	01/30/12	01/30/12
						0.089964	0.1038024
						0.0670452	0.0689756
						0.094083	0.1038024
						0.0689756	0.086645
						01/30/12	01/31/12
						01/30/12	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:		NJDEPLLT015		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		B		C		G	
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624		RTX-624		RTX-624	
MATRIX:		AIR		LOD Ref:		4							
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N		Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
1,1-Dichloroethene	75-35-4	0.086	0.086	0.20	2.3	Y		0.21544	01/30/12	0.2414822	01/30/12	0.1941059	01/31/12
1,4-Dioxane	123-91-1	0.070	0.070	0.20	2.9	Y		0.1538093	01/30/12	0.1757113	01/30/12	0.1706352	01/31/12
Acetonitrile	75-05-8	0.082	0.082	0.20	2.4	Y		0.2620567	01/30/12	0.4688481	01/30/12	0.2682369	01/31/12
Acrolein	107-02-8	0.067	0.067	0.20	3.0	Y		0.2478182	01/30/12	0.2085343	01/30/12	0.2568267	01/31/12
cis-1,2-Dichloroethene	156-59-2	0.084	0.084	0.20	2.4	Y		0.2065816	01/30/12	0.2304565	01/30/12	0.217851	01/31/12
Ethanol	64-17-5	0.18	0.18	0.40	2.2	Y		0.6113607	01/30/12	0.4718399	01/30/12	0.5560324	01/31/12
Ethyl acetate	141-78-6	0.065	0.065	0.20	3.1	Y		0.0826342	01/30/12	0.0257973	01/30/12	0.2569577	01/31/12
Isopentane	78-78-4	0.064	0.064	0.20	3.1	Y		0.2421419	01/30/12	0.2361926	01/30/12	0.2148304	01/31/12
Isopropyl alcohol	67-63-0	0.076	0.076	0.20	2.6	Y		0.1918079	01/30/12	0.1819499	01/30/12	0.2239464	01/31/12
n-Butanol	71-36-3	0.14	0.14	0.20	1.4	Y		0.1789814	01/30/12	0.2396682	01/30/12	0.2954564	01/31/12
n-Dodecane	112-40-3	0.19	0.19	0.20	1.0	Y		0.1615149	01/30/12	0.2051198	01/30/12	0.1318974	01/31/12
Propylene	115-07-1	0.094	0.094	0.20	2.1	Y		0.271858	01/30/12	0.3481022	01/30/12	0.2677293	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLO15	Prep Date:	01/30/12, 01/31/12	Instrument(s):			
PREP METHOD:	NA	Initial Amount:	200 mL	B		C	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624		RTX-624	
MATRIX:	AIR	LOD Ref:	4				
ANALYTE	CAS #	ppbv	Spike	Spike/DL	Pass	Result	Date
Acetone	67-64-1	0.40	ppbv	Ratio	Y/N	ppbv	Analyzed
			0.50	1.3	Y	0.8803931	01/30/12
						0.9494763	01/31/12

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		NJDEPLLT015		Prep Date:		01/30/12, 01/31/12, 02/1		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		C					
CLEANUP METHOD(S):		NA		Final Amount:		200 mL		RTX-624		RTX-624		RTX-624	
MATRIX:		AIR		CSV Ref:		LOQ		01/30/12, 01/31/12		01/30/12, 02/09/12, 02/28/12		01/31/12	
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Ratio	Pass	Spike / LOQ Ratio	Result ppbv	%R	Result ppbv	%R	Result ppbv	%R
1,1,1-Trichloroethane	71-55-6	0.20	0.20	0.20	1.0	Y	1.0	0.2413639	107	0.20413639	102	0.2478879	124
1,1,2,2-Tetrachloroethane	79-34-5	0.20	0.20	0.20	1.0	Y	1.0	0.2190932	110	0.198034594	99	0.1973121	99
1,1,2-Trichloroethane	79-00-5	0.20	0.20	0.20	1.0	Y	1.0	0.2067923	103	0.198735441	99	0.2353734	118
1,1-Dichloroethane	75-34-3	0.20	0.20	0.20	1.0	Y	1.0	0.2315938	116	0.195251478	98	0.2178936	109
1,1-Dichloroethene	75-35-4	0.20	0.20	0.20	1.0	Y	1.0	0.2156916	108	0.236801737	118	0.2295669	115
1,2,3-Trichlorobenzene	87-61-6	0.20	0.20	0.20	1.0	Y	1.0	0.124589	62	0.175465772	88	0.1194694	60
1,2,3-Trichloropropane	96-18-4	0.50	0.50	0.50	1.0	Y	1.0	0.5973531	119	0.49043631	98	0.5194116	104
1,2,4-Trichlorobenzene	120-82-1	0.50	0.50	0.50	1.0	Y	1.0	0.3865497	77	0.443693854	89	0.3481276	70
1,2,4-Trimethylbenzene	95-63-6	0.20	0.20	0.20	1.0	Y	1.0	0.1980249	99	0.184375444	92	0.1835486	92
1,2-Dibromoethane	106-93-4	0.20	0.20	0.20	1.0	Y	1.0	0.1826634	91	0.181906254	91	0.2259952	113
1,2-Dichlorobenzene	95-50-1	0.20	0.20	0.20	1.0	Y	1.0	0.1917522	96	0.195517514	98	0.2038696	102
1,2-Dichloroethane	107-06-2	0.20	0.20	0.20	1.0	Y	1.0	0.2202224	110	0.20169939	101	0.2573214	129
1,2-Dichloropropane	78-87-5	0.20	0.20	0.20	1.0	Y	1.0	0.2269977	113	0.19984162	100	0.1994906	100
1,2-Dichlorotetrafluoroethane	76-14-2	0.20	0.20	0.20	1.0	Y	1.0	0.2558942	128	0.226962474	113	0.2166011	108
1,3,5-Trimethylbenzene	108-67-8	0.20	0.20	0.20	1.0	Y	1.0	0.2052589	103	0.182155396	91	0.1949404	97
1,3-Butadiene	106-99-0	0.20	0.20	0.20	1.0	Y	1.0	0.240449	120	0.212136957	106	0.207543	104
1,3-Dichlorobenzene	541-73-1	0.20	0.20	0.20	1.0	Y	1.0	0.1904339	95	0.189661204	95	0.2039491	102
1,4-Dichlorobenzene	106-46-7	0.20	0.20	0.20	1.0	Y	1.0	0.1811234	91	0.187857839	94	0.1899928	95
1,4-Dioxane	123-91-1	5.0	5.0	5.0	1.0	Y	1.0	5.214428	104	4.519464281	91	5.2969506	106
2,2,4-Trimethylpentane	540-84-1	0.20	0.20	0.20	1.0	Y	1.0	0.2269492	113	0.18981289	95	0.2068431	103
2-Chlorotoluene	95-49-8	0.20	0.20	0.20	1.0	Y	1.0	0.215235	108	0.186098239	93	0.2324965	116
3-Chloropropene	107-05-1	0.20	0.20	0.20	1.0	Y	1.0	0.2505149	125	0.206991005	103	0.2258961	113
4-Ethyltoluene	622-96-8	0.20	0.20	0.20	1.0	Y	1.0	0.2007357	100	0.168665588	84	0.1977668	99
4-Isopropyltoluene	99-87-6	0.20	0.20	0.20	1.0	Y	1.0	0.190941	95	0.174423806	87	0.1910409	96
Acetone	67-64-1	5.0	5.0	5.0	1.0	Y	1.0	6.8730918	138	4.868555067	98	6.127913	123
Acetonitrile	75-05-8	5.0	5.0	5.0	1.0	Y	1.0	6.3148979	127	5.280957546	106	5.0024665	100
Acrolein	107-02-8	5.0	5.0	5.0	1.0	Y	1.0	5.9856251	120	4.506646391	90	6.2722431	126
Acrylonitrile	107-13-1	0.50	0.50	0.50	1.0	Y	1.0	0.5651999	113	0.466895501	93	0.4965948	99
Alpha Methyl Styrene	98-83-9	0.20	0.20	0.20	1.0	Y	1.0	0.1511434	76	0.142595619	71	0.1719449	86
Benzene	71-43-2	0.20	0.20	0.20	1.0	Y	1.0	0.2278442	114	0.205776913	103	0.2311636	116
Benzyl chloride	100-44-7	0.20	0.20	0.20	1.0	Y	1.0	0.1887917	94	0.173426176	87	0.1754307	88
Bromodichloromethane	75-27-4	0.20	0.20	0.20	1.0	Y	1.0	0.2043207	102	0.178787348	89	0.2241085	112
Bromoethene(Vinyl Bromide)	593-60-2	0.20	0.20	0.20	1.0	Y	1.0	0.2341048	117	0.202929167	101	0.2178155	109
Bromoform	75-25-2	0.20	0.20	0.20	1.0	Y	1.0	0.1518521	76	0.155865313	78	0.2132712	107
Bromomethane	74-83-9	0.20	0.20	0.20	1.0	Y	1.0	0.2482376	124	0.235466793	118	0.2183876	109
Carbon disulfide	75-15-0	0.50	0.50	0.50	1.0	Y	1.0	0.583639	117	0.498735702	100	0.4880552	98

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		NJEPLLT015		Prep Date:		01/30/12, 01/31/12, 02/01/12		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		B		C		G	
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624		RTX-624		RTX-624	
MATRIX:		AIR		CSV Ref:		LOQ		01/30/12, 01/31/12		01/30/12, 02/09/12, 02/28/12		01/31/12	
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Ratio	Pass	Result ppbv	%R	Result ppbv	%R	Result ppbv	%R	
Carbon tetrachloride	56-23-5	0.040	0.040	0.040	1.0	Y	0.0473575	118	0.057302274	143	0.0503509	126	
Chlorobenzene	108-90-7	0.20	0.20	0.20	1.0	Y	0.2062465	103	0.20444255	102	0.2411045	121	
Chloroethane	75-00-3	0.50	0.50	0.50	1.0	Y	0.6750309	135	0.561782534	112	0.552979	111	
Chloroform	67-66-3	0.20	0.20	0.20	1.0	Y	0.2207505	110	0.208729889	104	0.2151206	108	
Chloromethane	74-87-3	0.50	0.50	0.50	1.0	Y	0.7072121	141	0.572340069	114	0.5452139	109	
cis-1,2-Dichloroethene	156-59-2	0.20	0.20	0.20	1.0	Y	0.2050401	103	0.233783716	117	0.2441383	122	
cis-1,3-Dichloropropene	10061-01-5	0.20	0.20	0.20	1.0	Y	0.1984556	99	0.196129627	98	0.2190777	110	
Cumene	98-82-8	0.20	0.20	0.20	1.0	Y	0.1919965	96	0.194614906	97	0.2096771	105	
Cyclohexane	110-82-7	0.20	0.20	0.20	1.0	Y	0.2122781	106	0.192938431	96	0.2086209	104	
Dibromochloromethane	124-48-1	0.20	0.20	0.20	1.0	Y	0.1740128	87	0.169791393	85	0.2171467	109	
Dibromomethane	74-95-3	0.20	0.20	0.20	1.0	Y	0.1859379	93	0.186893166	93	0.2350577	118	
Dichlorodifluoromethane	75-71-8	0.50	0.50	0.50	1.0	Y	0.6652969	133	0.605556406	121	0.5640332	113	
Ethanol	64-17-5	5.0	5.0	5.0	1.0	Y	6.414391	128	4.588677443	92	4.5392526	91	
Ethyl acetate	141-78-6	5.0	5.0	5.0	1.0	Y	5.1923032	104	4.050578521	81	5.2451261	105	
Ethyl ether	60-29-7	0.20	0.20	0.20	1.0	Y	0.2113528	106	0.199897571	100	0.1967665	98	
Ethylbenzene	100-41-4	0.20	0.20	0.20	1.0	Y	0.2100009	105	0.192919809	96	0.2107844	105	
Freon 22	75-45-6	0.50	0.50	0.50	1.0	Y	0.6807316	136	0.534866731	107	0.5578464	112	
Freon TF	76-13-1	0.20	0.20	0.20	1.0	Y	0.219404	110	0.210084144	105	0.2112665	106	
Hexachlorobutadiene	87-68-3	0.20	0.20	0.20	1.0	Y	0.1960653	98	0.210306905	105	0.2692485	135	
Isopentane	78-78-4	0.20	0.20	0.20	1.0	Y	0.2693743	135	0.242683191	121	0.2101781	105	
Isopropyl alcohol	67-63-0	5.0	5.0	5.0	1.0	Y	5.7955138	116	4.748712087	95	5.8711771	118	
m,p-Xylene	179601-23-1	0.40	0.40	0.40	1.0	Y	0.4079192	102	0.373681854	93	0.4171524	104	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.50	0.50	0.50	1.0	Y	0.4598035	92	0.432799764	87	0.5299716	106	
Methyl Ethyl Ketone	78-93-3	0.50	0.50	0.50	1.0	Y	0.5817211	116	0.513150981	103	0.5314954	106	
Methyl isobutyl ketone	108-10-1	0.50	0.50	0.50	1.0	Y	0.5368203	107	0.465013224	93	0.4965566	99	
Methyl methacrylate	80-62-6	0.50	0.50	0.50	1.0	Y	0.4559876	91	0.422457781	84	0.4628928	93	
Methyl tert-butyl ether	1634-04-4	0.20	0.20	0.20	1.0	Y	0.2109562	105	0.215864572	108	0.1961266	98	
Methylene Chloride	75-09-2	0.50	0.50	0.50	1.0	Y	0.6933183	139	0.560089251	112	0.5694856	114	
Naphthalene	91-20-3	0.50	0.50	0.50	1.0	Y	0.380915	76	0.427072059	85	0.3103585	62	
n-Butane	106-97-8	0.50	0.50	0.50	1.0	Y	0.6783094	136	0.525345233	105	0.5107488	102	
n-Butanol	71-36-3	5.0	5.0	5.0	1.0	Y	5.2636989	105	4.63588975	93	5.4638248	109	
n-Butylbenzene	104-51-8	0.20	0.20	0.20	1.0	Y	0.216894	108	0.157349697	79	0.1672985	84	
n-Decane	124-18-5	0.50	0.50	0.50	1.0	Y	0.625222	125	0.307285191	61	0.432654	87	
n-Dodecane	112-40-3	5.0	5.0	5.0	1.0	Y	6.5131796	131	2.645476656	53	4.6162814	93	
n-Heptane	142-82-5	0.20	0.20	0.20	1.0	Y	0.2393929	120	0.185069607	93	0.2075883	104	
n-Hexane	110-54-3	0.20	0.20	0.20	1.0	Y	0.2256931	113	0.194778498	97	0.2108638	105	

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		NJDEPLLT015		Prep Date:		01/30/12, 01/31/12, 02/01/12		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		C					
CLEANUP METHOD(S):		NA		Final Amount:		200 mL		RTX-624		RTX-624		RTX-624	
MATRIX:		AIR		LOQ		LOQ		01/30/12, 01/31/12		01/30/12, 02/09/12, 02/28/12		01/31/12	
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Ratio	Pass	Spike / LOQ Ratio	Result ppbv	%R	Result ppbv	%R	Result ppbv	%R
n-Nonane	111-84-2	0.20	0.20	0.20	1.0	Y	0.233004	0.169124795	117	0.169124795	85	0.1954915	98
n-Octane	111-65-9	0.50	0.50	0.50	1.0	Y	0.6737594	0.448385812	135	0.448385812	90	0.4802081	96
n-Pentane	109-66-0	0.50	0.50	0.50	1.0	Y	0.6811029	0.489728166	136	0.489728166	98	0.4541239	91
n-Propylbenzene	103-65-1	0.20	0.20	0.20	1.0	Y	0.2176803	0.180087873	109	0.180087873	90	0.2056518	103
n-Undecane	1120-21-4	5.0	5.0	5.0	1.0	Y	7.0288046	5.340271543	141	5.340271543	107	4.2634973	85
Propylene	115-07-1	5.0	5.0	5.0	1.0	Y	6.2890372	4.963429273	126	4.963429273	99	5.0779861	102
sec-Butylbenzene	135-98-8	0.20	0.20	0.20	1.0	Y	0.2136936	0.186399819	107	0.186399819	93	0.1992368	100
Styrene	100-42-5	0.20	0.20	0.20	1.0	Y	0.1610885	0.168681925	81	0.168681925	84	0.1825784	91
tert-Butyl alcohol	75-65-0	5.0	5.0	5.0	1.0	Y	5.7298763	4.769935009	115	4.769935009	96	5.8027565	116
tert-Butylbenzene	98-06-6	0.20	0.20	0.20	1.0	Y	0.2031567	0.187843873	102	0.187843873	94	0.2195841	110
Tetrachloroethene	127-18-4	0.20	0.20	0.20	1.0	Y	0.18203	0.191830153	91	0.191830153	96	0.26346	132
Tetrahydrofuran	109-99-9	5.0	5.0	5.0	1.0	Y	6.4020166	4.179536752	128	4.179536752	84	4.9814126	100
Toluene	108-88-3	0.20	0.20	0.20	1.0	Y	0.2146481	0.193888307	107	0.193888307	97	0.2518171	126
trans-1,2-Dichloroethene	156-60-5	0.20	0.20	0.20	1.0	Y	0.2281665	0.191509899	114	0.191509899	96	0.2067603	103
trans-1,3-Dichloropropene	10061-02-6	0.20	0.20	0.20	1.0	Y	0.1920366	0.186799607	96	0.186799607	93	0.234312	117
Trichloroethene	79-01-6	0.040	0.040	0.040	1.0	Y	0.0459406	0.047078137	115	0.047078137	117	0.047473	118
Trichlorofluoromethane	75-69-4	0.20	0.20	0.20	1.0	Y	0.2293409	0.217889263	115	0.217889263	109	0.2307896	115
Vinyl acetate	108-05-4	5.0	5.0	5.0	1.0	Y	6.2197289	4.530989643	125	4.530989643	91	5.5677659	112
Vinyl chloride	75-01-4	0.040	0.040	0.040	1.0	Y	0.0455769	0.037653748	114	0.037653748	94	0.048425	121
Xylene, o-	95-47-6	0.20	0.20	0.20	1.0	Y	0.1900893	0.194634968	95	0.194634968	97	0.2085756	104

Note: Pass = The %R on each instrument is within 50-150%

Method T015 Low Level - New Jersey

Volatile Organic Compounds - Low
level (GC/MS) by New Jersey Method
TO 15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-19673-1
 SDG No.: 200-19673
 Matrix: Air Level: Low Lab File ID: bleh004.d
 Lab ID: LCS 200-65468/4 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	0.200	0.227	113	60-140	
1,1-Dichloroethene	0.200	0.238	118	60-140	
1,2-Dichloroethene, trans-	0.200	0.238	119	60-140	
1,1-Dichloroethane	0.200	0.249	124	60-140	
1,2-Dichloroethene, cis-	0.200	0.232	116	60-140	
1,1,1-Trichloroethane	0.200	0.239	119	60-140	
Carbon tetrachloride	0.200	0.239	119	60-140	
1,2-Dichloroethane	0.200	0.246	123	60-140	
Trichloroethene	0.200	0.239	119	60-140	
Tetrachloroethene	0.200	0.232	116	60-140	

Column to be used to flag recovery and RPD values

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-19673-1
 SDG No.: 200-19673
 Lab File ID: bleh003.d Lab Sample ID: MB 200-65468/3
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: B.i Date Analyzed: 12/03/2013 11:27
 GC Column: RTX-624 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-65468/4	bleh004.d	12/03/2013 12:19
SG-111913-SGP-01	200-19673-1	bleh023.d	12/04/2013 05:32
AA-111913-SGP-01	200-19673-2	bleh024.d	12/04/2013 06:24

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-19673-1
 SDG No.: 200-19673
 Lab File ID: ble001.d BFB Injection Date: 11/21/2013
 Instrument ID: B.i BFB Injection Time: 09:09
 Analysis Batch No.: 65100

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	19.8	
75	30.0 - 66.0% of mass 95	49.2	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.4	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	72.8	
175	4.0 - 9.0 % of mass 174	5.3	(7.3)1
176	93.0 - 101.0% of mass 174	70.9	(97.3)1
177	5.0 - 9.0% of mass 176	4.6	(6.4)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-65100/4	ble004.d	11/21/2013	11:49
	IC 200-65100/5	ble005.d	11/21/2013	12:41
	ICIS 200-65100/7	ble007.d	11/21/2013	14:25
	IC 200-65100/8	ble008.d	11/21/2013	15:17
	IC 200-65100/10	ble010.d	11/21/2013	17:01
	IC 200-65100/11	ble011.d	11/21/2013	17:53
	IC 200-65100/14	ble014.d	11/21/2013	20:29
	ICV 200-65100/19	ble019.d	11/22/2013	08:57

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-19673-1
 SDG No.: 200-19673
 Lab File ID: bleh001.d BFB Injection Date: 12/03/2013
 Instrument ID: B.i BFB Injection Time: 09:22
 Analysis Batch No.: 65468

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	20.2	
75	30.0 - 66.0% of mass 95	49.4	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	69.9	
175	4.0 - 9.0 % of mass 174	5.1	(7.3)1
176	93.0 - 101.0% of mass 174	68.2	(97.6)1
177	5.0 - 9.0% of mass 176	4.6	(6.7)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-65468/2	bleh002.d	12/03/2013	10:14
	MB 200-65468/3	bleh003.d	12/03/2013	11:27
	LCS 200-65468/4	bleh004.d	12/03/2013	12:19
	LCS 200-65468/5	bleh005.d	12/03/2013	13:11
	LCS 200-65468/6	bleh006a.d	12/03/2013	14:47
SG-111913-SGP-01	200-19673-1	bleh023.d	12/04/2013	05:32
AA-111913-SGP-01	200-19673-2	bleh024.d	12/04/2013	06:24
	CCVC 200-65468/26	bleh026.d	12/04/2013	08:09
	CCVC 200-65468/27	bleh027.d	12/04/2013	08:58

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-19673-1
 SDG No.: 200-19673
 Sample No.: ICIS 200-65100/7 Date Analyzed: 11/21/2013 14:25
 Instrument ID: B.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): ble007.d Heated Purge: (Y/N) N
 Calibration ID: 24481

	BCM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	296313	10.02	1536476	11.42	1413216	15.50
UPPER LIMIT	414838	10.35	2151066	11.75	1978502	15.83
LOWER LIMIT	177788	9.69	921886	11.09	847930	15.17
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-65100/19	340439	10.02	1763555	11.42	1598759	15.50

BCM = Chlorobromomethane
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-19673-1
 SDG No.: 200-19673
 Sample No.: CCVIS 200-65468/2 Date Analyzed: 12/03/2013 10:14
 Instrument ID: B.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): bleh002.d Heated Purge: (Y/N) N
 Calibration ID: 24481

	BCM		DFB		CBZ			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	282204	10.02	1475187	11.42	1327249	15.50		
UPPER LIMIT	395086	10.35	2065262	11.75	1858149	15.83		
LOWER LIMIT	169322	9.69	885112	11.09	796349	15.17		
LAB SAMPLE ID	CLIENT SAMPLE ID							
MB 200-65468/3			287304	10.01	1509868	11.42	1356086	15.50
LCS 200-65468/4			281186	10.02	1468334	11.42	1317297	15.50
LCS 200-65468/5			266211	10.02	1398863	11.42	1234550	15.50
LCS 200-65468/6			257928	10.02	1352988	11.42	1228351	15.50
200-19673-1	SG-111913-SGP-01		227606	10.01	1197816	11.42	1026887	15.50
200-19673-2	AA-111913-SGP-01		226393	10.01	1199720	11.42	1045495	15.50

BCM = Chlorobromomethane
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-19673-1
 SDG No.: 200-19673
 Client Sample ID: SG-111913-SGP-01 Lab Sample ID: 200-19673-1
 Matrix: Air Lab File ID: bleh023.d
 Analysis Method: TO15LL/NJ Date Collected: 11/19/2013 15:13
 Sample wt/vol: 20 (mL) Date Analyzed: 12/04/2013 05:32
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65468 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	2.0	U	2.0	0.091
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.86
156-60-5	1,2-Dichloroethene, trans-	2.0	U	2.0	0.23
75-34-3	1,1-Dichloroethane	2.0	U	2.0	0.23
156-59-2	1,2-Dichloroethene, cis-	2.0	U	2.0	0.84
71-55-6	1,1,1-Trichloroethane	2.0	U	2.0	0.20
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.13
107-06-2	1,2-Dichloroethane	2.0	U	2.0	0.18
79-01-6	Trichloroethene	2.2		2.0	0.092
127-18-4	Tetrachloroethene	22		2.0	0.15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-19673-1
 SDG No.: 200-19673
 Client Sample ID: AA-111913-SGP-01 Lab Sample ID: 200-19673-2
 Matrix: Air Lab File ID: bleh024.d
 Analysis Method: TO15LL/NJ Date Collected: 11/19/2013 15:13
 Sample wt/vol: 20 (mL) Date Analyzed: 12/04/2013 06:24
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65468 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	2.0	U	2.0	0.091
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.86
156-60-5	1,2-Dichloroethene, trans-	2.0	U	2.0	0.23
75-34-3	1,1-Dichloroethane	2.0	U	2.0	0.23
156-59-2	1,2-Dichloroethene, cis-	2.0	U	2.0	0.84
71-55-6	1,1,1-Trichloroethane	2.0	U	2.0	0.20
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.13
107-06-2	1,2-Dichloroethane	2.0	U	2.0	0.18
79-01-6	Trichloroethene	2.0	U	2.0	0.092
127-18-4	Tetrachloroethene	2.0	U	2.0	0.15

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-19673-1 Analy Batch No.: 65100

SDG No.: 200-19673

Instrument ID: B.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/21/2013 11:49 Calibration End Date: 11/21/2013 20:29 Calibration ID: 24481

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-65100/4	ble004.d
Level 2	IC 200-65100/5	ble005.d
Level 3	IC 200-65100/8	ble008.d
Level 4	ICIS 200-65100/7	ble007.d
Level 5	IC 200-65100/14	ble014.d
Level 6	IC 200-65100/10	ble010.d
Level 7	IC 200-65100/11	ble011.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Dichlorodifluoromethane	++++ 1.9979	2.4132 1.8166	2.2182	2.4479	1.4507	Ave		2.0574			18.6		30.0				
1,2-Dichlorotetrafluoroethane	3.2787 2.2871	2.6106 2.0709	2.5470	2.7382	1.6679	Ave		2.4572			20.9		30.0				
Chloromethane	++++ 0.8096	1.0229 0.7403	0.8871	0.9817	0.6091	Ave		0.8418			18.4		30.0				
Vinyl chloride	1.4932 1.0233	1.1736 0.9500	1.1114	1.2214	0.7470	Ave		1.1028			21.2		30.0				
1,3-Butadiene	1.0917 0.8072	0.8983 0.7352	0.8705	0.9602	0.5926	Ave		0.8508			18.9		30.0				
Bromomethane	1.3218 1.0238	1.0545 0.9493	1.0882	1.1161	0.7269	Ave		1.0401			17.3		30.0				
Chloroethane	++++ 0.7292	0.7423 0.6658	0.7913	0.8188	0.5195	Ave		0.7111			15.2		30.0				
Vinyl bromide	1.2334 1.0290	0.9789 0.9656	1.0945	1.0893	0.7286	Ave		1.0170			15.3		30.0				
Trichlorofluoromethane	3.4668 2.6467	2.7580 2.4637	2.8312	2.9396	1.9050	Ave		2.7159			17.5		30.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	2.6935 2.1614	2.1234 2.0213	2.2539	2.2818	1.5417	Ave		2.1539			16.0		30.0				
1,1-Dichloroethene	1.3291 1.0759	1.0643 1.0130	1.1259	1.1452	0.7552	Ave		1.0727			16.1		30.0				
Acetone	++++ 2.0772	++++ 2.1449	3.5737	2.7835	1.6393	Ave		2.4437			30.8	*	30.0				
Isopropanol	++++ 1.8064	++++ 1.5486	2.0732	2.1045	1.3117	Ave		1.7689			19.3		30.0				
Carbon disulfide	++++ 3.8568	++++ 3.5676	4.2978	4.2064	2.7438	Ave		3.7849			15.1		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

Analy Batch No.: 65100

SDG No.: 200-19673

Instrument ID: B.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 11/21/2013 11:49

Calibration End Date: 11/21/2013 20:29

Calibration ID: 24481

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Allyl chloride	2.6456 2.0197	2.1592 1.8674	2.1323	2.2730	1.4131	Ave		2.0729			18.3		30.0				
Methylene Chloride	++++ 1.6336	2.0107 1.4993	1.9350	1.8803	1.4040	Ave		1.7271			14.5		30.0				
tert-Butyl alcohol	++++ 2.4609	++++ 2.2740	2.8901	2.7808	1.7758	Ave		2.4363			18.2		30.0				
Methyl tert-butyl ether	4.6205 3.8261	3.6527 3.5850	3.9844	4.0840	2.7197	Ave		3.7818			15.3		30.0				
1,2-Dichloroethene, trans-	2.8557 2.1508	2.2077 1.9909	2.2795	2.3615	1.5276	Ave		2.1963			18.2		30.0				
n-Hexane	3.1151 2.5155	2.5029 2.3172	2.6967	2.7952	1.8180	Ave		2.5372			16.0		30.0				
1,1-Dichloroethane	3.4587 2.5898	2.6973 2.3842	2.7673	2.8823	1.8447	Ave		2.6606			18.5		30.0				
1,2-Dichloroethene, cis-	1.6232 1.2361	1.2348 1.1448	1.3000	1.3285	0.8759	Ave		1.2491			17.9		30.0				
Methyl Ethyl Ketone	++++ 0.7067	0.9459 0.6487	0.7913	0.7944	0.5117	Ave		0.7331			20.2		30.0				
Tetrahydrofuran	++++ 0.3717	++++ 0.3439	0.3949	0.4246	0.2620	Ave		0.3594			17.3		30.0				
Chloroform	3.3184 2.5468	2.5894 2.3659	2.6673	2.7710	1.8034	Ave		2.5803			17.6		30.0				
Cyclohexane	0.4474 0.3648	0.3454 0.3422	0.3804	0.3939	0.2577	Ave		0.3617			16.0		30.0				
1,1,1-Trichloroethane	0.5935 0.4805	0.4701 0.4535	0.5008	0.5183	0.3399	Ave		0.4795			16.0		30.0				
Carbon tetrachloride	0.5850 0.4850	0.4746 0.4597	0.5044	0.5179	0.3364	Ave		0.4804			15.7		30.0				
2,2,4-Trimethylpentane	1.8472 1.5569	1.5125 1.4429	1.6348	1.7140	1.1002	Ave		1.5441			15.4		30.0				
Benzene	1.0573 0.8348	0.8563 0.7824	0.8776	0.8983	0.5886	Ave		0.8422			16.7		30.0				
1,2-Dichloroethane	0.4451 0.3374	0.3429 0.3166	0.3570	0.3731	0.2402	Ave		0.3446			17.9		30.0				
n-Heptane	0.8218 0.6252	0.6456 0.5748	0.6711	0.7173	0.4421	Ave		0.6425			18.4		30.0				
Trichloroethene	0.4131 0.3243	0.3167 0.3074	0.3356	0.3435	0.2279	Ave		0.3240			16.9		30.0				
1,2-Dichloropropane	0.4537 0.3422	0.3490 0.3146	0.3630	0.3764	0.2429	Ave		0.3488			18.3		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

Analy Batch No.: 65100

SDG No.: 200-19673

Instrument ID: B.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 11/21/2013 11:49

Calibration End Date: 11/21/2013 20:29

Calibration ID: 24481

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
Methyl methacrylate	++++ 0.3329	0.2973 0.3002	0.3375	0.3536	0.2332	Ave		0.3091			14.0		30.0				
1,4-Dioxane	++++ 0.1111	0.1208 0.0994	0.1165	0.0815	0.0815	Ave		0.1059			14.9		30.0				
Bromodichloromethane	0.6941 0.5581	0.5455 0.5210	0.5796	0.6015	0.3903	Ave		0.5557			16.5		30.0				
1,3-Dichloropropene, cis-	0.5534 0.4912	0.4527 0.4602	0.4983	0.5207	0.3436	Ave		0.4743			14.1		30.0				
Methyl isobutyl ketone	++++ 0.7713	0.7156 0.7034	0.7998	0.8686	0.5373	Ave		0.7326			15.4		30.0				
Toluene	0.8134 0.6402	0.6395 0.6037	0.6574	0.6642	0.4540	Ave		0.6389			16.5		30.0				
1,3-Dichloropropene, trans-	0.5665 0.5025	0.4570 0.4701	0.5127	0.5341	0.3489	Ave		0.4846			14.5		30.0				
1,1,2-Trichloroethane	0.4083 0.3205	0.3114 0.3018	0.3314	0.3380	0.2272	Ave		0.3198			16.8		30.0				
Tetrachloroethene	0.5407 0.4366	0.4064 0.4230	0.4447	0.4457	0.2989	Ave		0.4280			16.7		30.0				
Dibromochloromethane	0.6797 0.5608	0.5097 0.5369	0.5637	0.5730	0.3862	Ave		0.5443			16.1		30.0				
1,2-Dibromoethane	0.6703 0.5215	0.4808 0.4962	0.5350	0.5380	0.3635	Ave		0.5150			17.6		30.0				
Chlorobenzene	1.0441 0.7965	0.7560 0.7583	0.8166	0.8276	0.5564	Ave		0.7936			18.1		30.0				
Ethylbenzene	1.7517 1.3934	1.3488 1.2639	1.4536	1.4851	0.9979	Ave		1.3849			16.5		30.0				
m-Xylene & p-Xylene	0.6183 0.5233	0.4834 0.4818	0.5389	0.5527	0.3708	Ave		0.5099			15.1		30.0				
o-Xylene	0.5852 0.5096	0.4551 0.4815	0.5227	0.5333	0.3606	Ave		0.4926			14.4		30.0				
Styrene	0.7921 0.8389	0.7098 0.7952	0.8278	0.8634	0.5808	Ave		0.7726			12.7		30.0				
Bromoform	0.6485 0.5382	0.4573 0.5285	0.5242	0.5439	0.3593	Ave		0.5143			17.2		30.0				
1,1,2,2-Tetrachloroethane	1.1410 0.8437	0.8150 0.7776	0.8773	0.9003	0.6057	Ave		0.8515			18.8		30.0				
4-Ethyltoluene	1.6860 1.5680	1.3757 1.4065	1.5866	1.6309	1.1131	Ave		1.4810			13.4		30.0				
2-Chlorotoluene	1.5700 1.3386	1.1959 1.2357	1.3598	1.3581	0.9342	Ave		1.2846			15.2		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-19673-1 Analy Batch No.: 65100

SDG No.: 200-19673

Instrument ID: B.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/21/2013 11:49 Calibration End Date: 11/21/2013 20:29 Calibration ID: 24481

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7															
1,3,5-Trimethylbenzene	1.3162 1.2561	1.1357 1.1233	1.3070	1.3512	0.9087	Ave		1.1997			13.0		30.0				
1,2,4-Trimethylbenzene	1.2765 1.2196	1.0860 1.1552	1.2914	1.3392	0.9034	Ave		1.1816			12.7		30.0				
1,3-Dichlorobenzene	0.9142 0.7423	0.6553 0.7313	0.7674	0.8088	0.5328	Ave		0.7360			16.3		30.0				
1,4-Dichlorobenzene	0.9220 0.7245	0.6344 0.7306	0.7627	0.7983	0.5244	Ave		0.7281			17.2		30.0				
1,2-Dichlorobenzene	0.8522 0.6733	0.6129 0.6960	0.7310	0.7599	0.5043	Ave		0.6900			16.1		30.0				
1,2,4-Trichlorobenzene	++++ 0.5096	0.2568 0.5445	0.4758	0.5062	0.3454	Ave		0.4397			25.7		30.0				
Hexachlorobutadiene	0.4939 0.5018	0.4279 0.5290	0.4862	0.5084	0.3535	Ave		0.4715			12.9		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-19673-1 Analy Batch No.: 65100

SDG No.: 200-19673

Instrument ID: B.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/21/2013 11:49 Calibration End Date: 11/21/2013 20:29 Calibration ID: 24481

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-65100/4	ble004.d
Level 2	IC 200-65100/5	ble005.d
Level 3	IC 200-65100/8	ble008.d
Level 4	ICIS 200-65100/7	ble007.d
Level 5	IC 200-65100/14	ble014.d
Level 6	IC 200-65100/10	ble010.d
Level 7	IC 200-65100/11	ble011.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	BCM	Ave	++++ 1325685	34828 2603978	342668	725345	751078	++++ 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichlorotetrafluoroethane	BCM	Ave	19140 1517619	37677 2968436	393464	811372	863500	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chloromethane	BCM	Ave	++++ 537227	14763 1061209	137045	290896	315327	++++ 20.0	0.500 40.0	5.00	10.0	15.0
Vinyl chloride	BCM	Ave	8717 678984	16937 1361754	171694	361907	386745	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Butadiene	BCM	Ave	6373 535597	12965 1053808	134471	284508	306825	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromomethane	BCM	Ave	7716 679345	15218 1360806	168106	330721	376336	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chloroethane	BCM	Ave	++++ 483828	10713 954295	122235	242610	268958	++++ 20.0	0.500 40.0	5.00	10.0	15.0
Vinyl bromide	BCM	Ave	7200 682792	14128 1384058	169073	322763	377200	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Trichlorofluoromethane	BCM	Ave	20238 1756225	39804 3531529	437365	871053	986250	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2-Trichloro-1,2,2-trifluoroethane	BCM	Ave	15724 1434169	30645 2897422	348178	676138	798180	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1-Dichloroethene	BCM	Ave	7759 713909	15360 1452111	173930	339326	390989	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Acetone	BCM	Ave	++++ 1378321	++++ 3074531	552064	824798	848702	++++ 20.0	++++ 40.0	5.00	10.0	15.0
Isopropanol	BCM	Ave	++++ 1198608	++++ 2219807	320264	623604	679077	++++ 20.0	++++ 40.0	5.00	10.0	15.0
Carbon disulfide	BCM	Ave	++++ 2559140	58263 5113851	663929	1246403	1420525	++++ 20.0	0.500 40.0	5.00	10.0	15.0
Allyl chloride	BCM	Ave	15444 1340137	31161 2676798	329394	673530	731604	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington

Job No.: 200-19673-1

Analy Batch No.: 65100

SDG No.: 200-19673

Instrument ID: B.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 11/21/2013 11:49

Calibration End Date: 11/21/2013 20:29

Calibration ID: 24481

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methylene Chloride	BCM	Ave	++++ 1083950	29019 2149119	298924	557150	726860	++++ 20.0	0.500 40.0	5.00	10.0	15.0
tert-Butyl alcohol	BCM	Ave	++++ 1632933	31862 3259577	446469	823982	919399	++++ 20.0	++++ 40.0	5.00	10.0	15.0
Methyl tert-butyl ether	BCM	Ave	26973 2538825	52716 5138833	615508	1210128	1408069	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloroethene, trans-	BCM	Ave	16671 1427136	31862 2853846	352147	699750	790896	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Hexane	BCM	Ave	18185 1669167	36122 3321530	416591	828263	941239	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1-Dichloroethane	BCM	Ave	20191 1718481	38927 3417525	427499	854074	955035	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloroethene, cis-	BCM	Ave	9476 820243	17821 1640935	200831	393665	453498	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl Ethyl Ketone	BCM	Ave	++++ 468921	13651 929897	122239	235396	264945	++++ 20.0	0.500 40.0	5.00	10.0	15.0
Tetrahydrofuran	DFB	Ave	++++ 1268192	++++ 2511687	315395	652375	702850	++++ 20.0	++++ 40.0	5.00	10.0	15.0
Chloroform	BCM	Ave	19372 1689948	37371 3391269	412045	821089	933672	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Cyclohexane	DFB	Ave	13642 1244654	25916 2498925	303776	605251	691337	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,1-Trichloroethane	DFB	Ave	18097 1639402	35270 3311589	399967	796392	911797	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Carbon tetrachloride	DFB	Ave	17838 1654799	35607 3357233	402792	795778	902280	0.200 20.0	0.500 40.0	5.00	10.0	15.0
2,2,4-Trimethylpentane	DFB	Ave	56321 5312468	113480 10537502	1305594	2633482	2950942	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Benzene	DFB	Ave	32237 2848568	64252 5713822	700872	1380150	1578785	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloroethane	DFB	Ave	13572 1151170	25726 2312111	285095	573209	644275	0.200 20.0	0.500 40.0	5.00	10.0	15.0
n-Heptane	DFB	Ave	25057 2133236	48436 4197748	535956	1102120	1185714	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Trichloroethene	DFB	Ave	12594 1106412	23763 2244686	268004	527733	611179	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichloropropane	DFB	Ave	13834 1167571	26186 2297441	289897	578349	651468	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl methacrylate	DFB	Ave	++++ 1135898	22308 2192443	269520	543295	625552	++++ 20.0	0.500 40.0	5.00	10.0	15.0
1,4-Dioxane	DFB	Ave	++++ 379181	++++ 725752	96478	179069	218550	++++ 20.0	++++ 40.0	5.00	10.0	15.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-19673-1 Analy Batch No.: 65100

SDG No.: 200-19673

Instrument ID: B.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/21/2013 11:49 Calibration End Date: 11/21/2013 20:29 Calibration ID: 24481

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
Bromodichloromethane	DFB	Ave	21164 1904302	40930 3804974	462913	924178	1046894	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichloropropene, cis-	DFB	Ave	16873 1675974	33966 3360973	397924	800000	921615	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Methyl isobutyl ketone	DFB	Ave	++++ 2631697	53689 5136539	638707	1334536	1441074	++++ 20.0	0.500 40.0	5.00	10.0	15.0
Toluene	CBZ	Ave	22042 1971140	42983 3940213	476289	938632	1093253	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichloropropene, trans-	DFB	Ave	17272 1714532	34292 3433429	409484	820590	935887	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2-Trichloroethane	CBZ	Ave	11064 986706	20933 1970084	240115	477656	546960	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Tetrachloroethene	CBZ	Ave	14653 1344129	27317 2760700	322215	629937	719770	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Dibromochloromethane	CBZ	Ave	18419 1726681	34262 3504604	408404	809780	930021	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dibromoethane	CBZ	Ave	18163 1605533	32320 3238571	387608	760244	875272	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Chlorobenzene	CBZ	Ave	28293 2452379	50817 4949592	591606	1169636	1339719	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Ethylbenzene	CBZ	Ave	47467 4290266	90663 8249442	1053115	2098710	2402683	0.200 20.0	0.500 40.0	5.00	10.0	15.0
m-Xylene & p-Xylene	CBZ	Ave	33507 3222696	64982 6289145	780888	1562136	1785564	0.400 40.0	1.00 80.0	10.0	20.0	30.0
o-Xylene	CBZ	Ave	15857 1569174	30587 3142646	378715	753672	868217	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Styrene	CBZ	Ave	21465 2582991	47710 5190633	599764	1220205	1398500	0.200 20.0	0.500 40.0	5.00	10.0	15.0
Bromoform	CBZ	Ave	17574 1656981	30737 3449471	379793	768618	865049	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	30920 2597654	54783 5075765	635612	1272349	1458312	0.200 20.0	0.500 40.0	5.00	10.0	15.0
4-Ethyltoluene	CBZ	Ave	45688 4827804	92469 9180123	1149492	2304773	2680205	0.200 20.0	0.500 40.0	5.00	10.0	15.0
2-Chlorotoluene	CBZ	Ave	42544 4121395	80381 8065791	985210	1919285	2249350	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3,5-Trimethylbenzene	CBZ	Ave	35665 3867306	76334 7331623	946964	1909534	2187984	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2,4-Trimethylbenzene	CBZ	Ave	34591 3755006	72997 7540040	935605	1892615	2175250	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,3-Dichlorobenzene	CBZ	Ave	24772 2285371	44048 4773438	555968	1143054	1282933	0.200 20.0	0.500 40.0	5.00	10.0	15.0

FORM VI
 AIR - GC/MS VOA INITIAL CALIBRATION DATA
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-19673-1 Analy Batch No.: 65100

SDG No.: 200-19673

Instrument ID: B.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 11/21/2013 11:49 Calibration End Date: 11/21/2013 20:29 Calibration ID: 24481

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7				LVL 6	LVL 7			
1,4-Dichlorobenzene	CBZ	Ave	24983 2230805	42643 4768805	552619	1128165	1262716	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2-Dichlorobenzene	CBZ	Ave	23094 2072955	41196 4542983	529652	1073961	1214371	0.200 20.0	0.500 40.0	5.00	10.0	15.0
1,2,4-Trichlorobenzene	CBZ	Ave	++++ 1568963	17262 3554021	344758	715320	831566	++++ 20.0	0.500 40.0	5.00	10.0	15.0
Hexachlorobutadiene	CBZ	Ave	13385 1545115	28759 3453120	352253	718532	851048	0.200 20.0	0.500 40.0	5.00	10.0	15.0

Curve Type Legend:

Ave = Average ISTD

FORM III
AIR - GC/MS VOA INITIAL CALIBRATION VERIFICATION RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-19673-1
 SDG No.: 200-19673
 Matrix: Air Level: Low Lab File ID: ble019.d
 Lab ID: ICV 200-65100/19 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	ICV CONCENTRATION (ppb v/v)	ICV % REC	QC LIMITS REC	#
Vinyl chloride	10.0	10.6	106	70-130	
1,1-Dichloroethene	10.0	11.7	117	70-130	
1,2-Dichloroethene, trans-	10.0	10.5	105	70-130	
1,1-Dichloroethane	10.0	10.5	105	70-130	
1,2-Dichloroethene, cis-	10.0	10.8	108	70-130	
1,1,1-Trichloroethane	10.0	10.5	105	70-130	
Carbon tetrachloride	10.0	10.3	103	70-130	
1,2-Dichloroethane	10.0	10.4	104	70-130	
Trichloroethene	10.0	10.3	103	70-130	
Tetrachloroethene	10.0	9.58	96	70-130	

Column to be used to flag recovery and RPD values

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-19673-1
 SDG No.: 200-19673
 Lab Sample ID: CCVIS 200-65468/2 Calibration Date: 12/03/2013 10:14
 Instrument ID: B.i Calib Start Date: 11/21/2013 11:49
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 11/21/2013 20:29
 Lab File ID: bleh002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	2.057	2.303		11.2	10.0	11.9	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.457	2.585		10.5	10.0	5.2	30.0
Chloromethane	Ave	0.8418	0.9393		11.2	10.0	11.6	30.0
Vinyl chloride	Ave	1.103	1.131		10.2	10.0	2.5	30.0
1,3-Butadiene	Ave	0.8508	0.8927		10.5	10.0	4.9	30.0
Bromomethane	Ave	1.040	1.108		10.7	10.0	6.6	30.0
Chloroethane	Ave	0.7111	0.8126		11.4	10.0	14.3	30.0
Vinyl bromide	Ave	1.017	1.096		10.8	10.0	7.8	30.0
Trichlorofluoromethane	Ave	2.716	2.950		10.9	10.0	8.6	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.154	2.327		10.8	10.0	8.0	30.0
1,1-Dichloroethene	Ave	1.073	1.146		10.7	10.0	6.8	30.0
Acetone	Ave	2.444	3.032		12.4	10.0	24.1	30.0
Isopropanol	Ave	1.769	2.224		12.6	10.0	25.7	30.0
Carbon disulfide	Ave	3.785	4.233		11.2	10.0	11.8	30.0
Allyl chloride	Ave	2.073	2.393		11.5	10.0	15.4	30.0
Methylene Chloride	Ave	1.727	1.922		11.1	10.0	11.3	30.0
tert-Butyl alcohol	Ave	2.436	2.891		11.9	10.0	18.7	30.0
Methyl tert-butyl ether	Ave	3.782	4.243		11.2	10.0	12.2	30.0
1,2-Dichloroethene, trans-	Ave	2.196	2.423		11.0	10.0	10.3	30.0
n-Hexane	Ave	2.537	2.862		11.3	10.0	12.8	30.0
1,1-Dichloroethane	Ave	2.661	2.925		11.0	10.0	9.9	30.0
1,2-Dichloroethene, cis-	Ave	1.249	1.335		10.7	10.0	6.9	30.0
Methyl Ethyl Ketone	Ave	0.7331	0.8069		11.0	10.0	10.1	30.0
Tetrahydrofuran	Ave	0.3594	0.4328		12.0	10.0	20.4	30.0
Chloroform	Ave	2.580	2.806		10.9	10.0	8.8	30.0
Cyclohexane	Ave	0.3617	0.3901		10.8	10.0	7.9	30.0
1,1,1-Trichloroethane	Ave	0.4795	0.5192		10.8	10.0	8.3	30.0
Carbon tetrachloride	Ave	0.4804	0.5211		10.8	10.0	8.5	30.0
2,2,4-Trimethylpentane	Ave	1.544	1.726		11.2	10.0	11.8	30.0
Benzene	Ave	0.8422	0.8947		10.6	10.0	6.2	30.0
1,2-Dichloroethane	Ave	0.3446	0.3806		11.0	10.0	10.4	30.0
n-Heptane	Ave	0.6425	0.7372		11.5	10.0	14.7	30.0
Trichloroethene	Ave	0.3240	0.3444		10.6	10.0	6.3	30.0
1,2-Dichloropropane	Ave	0.3488	0.3745		10.7	10.0	7.4	30.0
Methyl methacrylate	Ave	0.3091	0.3531		11.4	10.0	14.2	30.0
1,4-Dioxane	Ave	0.1059	0.1187		11.2	10.0	12.1	30.0
Bromodichloromethane	Ave	0.5557	0.6011		10.8	10.0	8.2	30.0
1,3-Dichloropropene, cis-	Ave	0.4743	0.5245		11.1	10.0	10.6	30.0
Methyl isobutyl ketone	Ave	0.7326	0.8923		12.2	10.0	21.8	30.0
Toluene	Ave	0.6389	0.6706		10.5	10.0	5.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-19673-1
 SDG No.: 200-19673
 Lab Sample ID: CCVIS 200-65468/2 Calibration Date: 12/03/2013 10:14
 Instrument ID: B.i Calib Start Date: 11/21/2013 11:49
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 11/21/2013 20:29
 Lab File ID: bleh002.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropene, trans-	Ave	0.4846	0.5375		11.1	10.0	10.9	30.0
1,1,2-Trichloroethane	Ave	0.3198	0.3402		10.6	10.0	6.4	30.0
Tetrachloroethene	Ave	0.4280	0.4419		10.3	10.0	3.2	30.0
Dibromochloromethane	Ave	0.5443	0.5741		10.5	10.0	5.5	30.0
1,2-Dibromoethane	Ave	0.5150	0.5421		10.5	10.0	5.3	30.0
Chlorobenzene	Ave	0.7936	0.8279		10.4	10.0	4.3	30.0
Ethylbenzene	Ave	1.385	1.491		10.8	10.0	7.6	30.0
m-Xylene & p-Xylene	Ave	0.5099	0.5474		21.5	20.0	7.4	30.0
o-Xylene	Ave	0.4926	0.5302		10.8	10.0	7.6	30.0
Styrene	Ave	0.7726	0.8584		11.1	10.0	11.1	30.0
Bromoform	Ave	0.5143	0.5281		10.3	10.0	2.7	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8515	0.8968		10.5	10.0	5.3	30.0
4-Ethyltoluene	Ave	1.481	1.636		11.0	10.0	10.5	30.0
2-Chlorotoluene	Ave	1.285	1.382		10.8	10.0	7.6	30.0
1,3,5-Trimethylbenzene	Ave	1.200	1.339		11.2	10.0	11.6	30.0
1,2,4-Trimethylbenzene	Ave	1.182	1.336		11.3	10.0	13.0	30.0
1,3-Dichlorobenzene	Ave	0.7360	0.7863		10.7	10.0	6.8	30.0
1,4-Dichlorobenzene	Ave	0.7281	0.7789		10.7	10.0	7.0	30.0
1,2-Dichlorobenzene	Ave	0.6900	0.7369		10.7	10.0	6.8	30.0
1,2,4-Trichlorobenzene	Ave	0.4397	0.4708		10.7	10.0	7.1	30.0
Hexachlorobutadiene	Ave	0.4715	0.4802		10.2	10.0	1.8	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-19673-1
 SDG No.: 200-19673
 Lab Sample ID: CCVC 200-65468/26 Calibration Date: 12/04/2013 08:09
 Instrument ID: B.i Calib Start Date: 11/21/2013 11:49
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 11/21/2013 20:29
 Lab File ID: bleh026.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	2.057	2.635		12.8	10.0	28.1	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.457	2.921		11.9	10.0	18.9	30.0
Chloromethane	Ave	0.8418	1.114		13.2	10.0	32.4*	30.0
Vinyl chloride	Ave	1.103	1.342		12.2	10.0	21.7	30.0
1,3-Butadiene	Ave	0.8508	1.079		12.7	10.0	26.8	30.0
Bromomethane	Ave	1.040	1.163		11.2	10.0	11.8	30.0
Chloroethane	Ave	0.7111	0.8970		12.6	10.0	26.1	30.0
Vinyl bromide	Ave	1.017	1.123		11.0	10.0	10.4	30.0
Trichlorofluoromethane	Ave	2.716	3.150		11.6	10.0	16.0	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.154	2.373		11.0	10.0	10.2	30.0
1,1-Dichloroethene	Ave	1.073	1.176		11.0	10.0	9.6	30.0
Acetone	Ave	2.444	3.875		15.9	10.0	58.6*	30.0
Isopropanol	Ave	1.769	2.456		13.9	10.0	38.8*	30.0
Carbon disulfide	Ave	3.785	4.497		11.9	10.0	18.8	30.0
Allyl chloride	Ave	2.073	2.657		12.8	10.0	28.2	30.0
Methylene Chloride	Ave	1.727	2.157		12.5	10.0	24.9	30.0
tert-Butyl alcohol	Ave	2.436	3.111		12.8	10.0	27.7	30.0
Methyl tert-butyl ether	Ave	3.782	4.451		11.8	10.0	17.7	30.0
1,2-Dichloroethene, trans-	Ave	2.196	2.623		11.9	10.0	19.4	30.0
n-Hexane	Ave	2.537	3.114		12.3	10.0	22.7	30.0
1,1-Dichloroethane	Ave	2.661	3.171		11.9	10.0	19.2	30.0
1,2-Dichloroethene, cis-	Ave	1.249	1.370		11.0	10.0	9.6	30.0
Methyl Ethyl Ketone	Ave	0.7331	0.8751		11.9	10.0	19.4	30.0
Tetrahydrofuran	Ave	0.3594	0.4944		13.8	10.0	37.5*	30.0
Chloroform	Ave	2.580	2.963		11.5	10.0	14.8	30.0
Cyclohexane	Ave	0.3617	0.4066		11.2	10.0	12.4	30.0
1,1,1-Trichloroethane	Ave	0.4795	0.5401		11.3	10.0	12.6	30.0
Carbon tetrachloride	Ave	0.4804	0.5269		11.0	10.0	9.7	30.0
2,2,4-Trimethylpentane	Ave	1.544	1.873		12.1	10.0	21.3	30.0
Benzene	Ave	0.8422	0.9382		11.1	10.0	11.4	30.0
1,2-Dichloroethane	Ave	0.3446	0.4132		12.0	10.0	19.9	30.0
n-Heptane	Ave	0.6425	0.8290		12.9	10.0	29.0	30.0
Trichloroethene	Ave	0.3240	0.3557		11.0	10.0	9.8	30.0
1,2-Dichloropropane	Ave	0.3488	0.4086		11.7	10.0	17.1	30.0
Methyl methacrylate	Ave	0.3091	0.3770		12.2	10.0	21.9	30.0
1,4-Dioxane	Ave	0.1059	0.1237		11.7	10.0	16.8	30.0
Bromodichloromethane	Ave	0.5557	0.6298		11.3	10.0	13.3	30.0
1,3-Dichloropropene, cis-	Ave	0.4743	0.5485		11.6	10.0	15.6	30.0
Methyl isobutyl ketone	Ave	0.7326	1.007		13.7	10.0	37.5*	30.0
Toluene	Ave	0.6389	0.6833		10.7	10.0	7.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-19673-1
 SDG No.: 200-19673
 Lab Sample ID: CCVC 200-65468/26 Calibration Date: 12/04/2013 08:09
 Instrument ID: B.i Calib Start Date: 11/21/2013 11:49
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 11/21/2013 20:29
 Lab File ID: bleh026.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropene, trans-	Ave	0.4846	0.5658		11.7	10.0	16.8	30.0
1,1,2-Trichloroethane	Ave	0.3198	0.3518		11.0	10.0	10.0	30.0
Tetrachloroethene	Ave	0.4280	0.4689		11.0	10.0	9.5	30.0
Dibromochloromethane	Ave	0.5443	0.5749		10.6	10.0	5.6	30.0
1,2-Dibromoethane	Ave	0.5150	0.5447		10.6	10.0	5.8	30.0
Chlorobenzene	Ave	0.7936	0.8389		10.6	10.0	5.7	30.0
Ethylbenzene	Ave	1.385	1.537		11.1	10.0	11.0	30.0
m-Xylene & p-Xylene	Ave	0.5099	0.5599		22.0	20.0	9.8	30.0
o-Xylene	Ave	0.4926	0.5412		11.0	10.0	9.9	30.0
Styrene	Ave	0.7726	0.8674		11.2	10.0	12.3	30.0
Bromoform	Ave	0.5143	0.5244		10.2	10.0	2.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8515	0.9372		11.0	10.0	10.1	30.0
4-Ethyltoluene	Ave	1.481	1.682		11.4	10.0	13.6	30.0
2-Chlorotoluene	Ave	1.285	1.450		11.3	10.0	12.8	30.0
1,3,5-Trimethylbenzene	Ave	1.200	1.378		11.5	10.0	14.9	30.0
1,2,4-Trimethylbenzene	Ave	1.182	1.384		11.7	10.0	17.2	30.0
1,3-Dichlorobenzene	Ave	0.7360	0.8073		11.0	10.0	9.7	30.0
1,4-Dichlorobenzene	Ave	0.7281	0.7959		10.9	10.0	9.3	30.0
1,2-Dichlorobenzene	Ave	0.6900	0.7530		10.9	10.0	9.1	30.0
1,2,4-Trichlorobenzene	Ave	0.4397	0.4762		10.8	10.0	8.3	30.0
Hexachlorobutadiene	Ave	0.4715	0.5004		10.6	10.0	6.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-19673-1
 SDG No.: 200-19673
 Lab Sample ID: CCVC 200-65468/27 Calibration Date: 12/04/2013 08:58
 Instrument ID: B.i Calib Start Date: 11/21/2013 11:49
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 11/21/2013 20:29
 Lab File ID: bleh027.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	2.057	2.325		11.3	10.0	13.0	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.457	2.584		10.5	10.0	5.2	30.0
Chloromethane	Ave	0.8418	0.9346		11.1	10.0	11.0	30.0
Vinyl chloride	Ave	1.103	1.151		10.4	10.0	4.4	30.0
1,3-Butadiene	Ave	0.8508	0.8997		10.6	10.0	5.7	30.0
Bromomethane	Ave	1.040	1.100		10.6	10.0	5.7	30.0
Chloroethane	Ave	0.7111	0.8169		11.5	10.0	14.9	30.0
Vinyl bromide	Ave	1.017	1.088		10.7	10.0	7.0	30.0
Trichlorofluoromethane	Ave	2.716	2.957		10.9	10.0	8.9	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.154	2.293		10.6	10.0	6.4	30.0
1,1-Dichloroethene	Ave	1.073	1.139		10.6	10.0	6.2	30.0
Acetone	Ave	2.444	3.498		14.3	10.0	43.2*	30.0
Isopropanol	Ave	1.769	2.303		13.0	10.0	30.2*	30.0
Carbon disulfide	Ave	3.785	4.233		11.2	10.0	11.8	30.0
Allyl chloride	Ave	2.073	2.444		11.8	10.0	17.9	30.0
Methylene Chloride	Ave	1.727	1.952		11.3	10.0	13.0	30.0
tert-Butyl alcohol	Ave	2.436	2.989		12.3	10.0	22.7	30.0
Methyl tert-butyl ether	Ave	3.782	4.253		11.2	10.0	12.5	30.0
1,2-Dichloroethene, trans-	Ave	2.196	2.443		11.1	10.0	11.2	30.0
n-Hexane	Ave	2.537	2.886		11.4	10.0	13.7	30.0
1,1-Dichloroethane	Ave	2.661	2.947		11.1	10.0	10.8	30.0
1,2-Dichloroethene, cis-	Ave	1.249	1.316		10.5	10.0	5.3	30.0
Methyl Ethyl Ketone	Ave	0.7331	0.8276		11.3	10.0	12.9	30.0
Tetrahydrofuran	Ave	0.3594	0.4481		12.5	10.0	24.7	30.0
Chloroform	Ave	2.580	2.825		10.9	10.0	9.5	30.0
Cyclohexane	Ave	0.3617	0.3881		10.7	10.0	7.3	30.0
1,1,1-Trichloroethane	Ave	0.4795	0.5221		10.9	10.0	8.9	30.0
Carbon tetrachloride	Ave	0.4804	0.5085		10.6	10.0	5.8	30.0
2,2,4-Trimethylpentane	Ave	1.544	1.748		11.3	10.0	13.2	30.0
Benzene	Ave	0.8422	0.8957		10.6	10.0	6.4	30.0
1,2-Dichloroethane	Ave	0.3446	0.3884		11.3	10.0	12.7	30.0
n-Heptane	Ave	0.6425	0.7577		11.8	10.0	17.9	30.0
Trichloroethene	Ave	0.3240	0.3418		10.5	10.0	5.5	30.0
1,2-Dichloropropane	Ave	0.3488	0.3783		10.8	10.0	8.4	30.0
Methyl methacrylate	Ave	0.3091	0.3590		11.6	10.0	16.1	30.0
1,4-Dioxane	Ave	0.1059	0.1226		11.6	10.0	15.8	30.0
Bromodichloromethane	Ave	0.5557	0.6025		10.8	10.0	8.4	30.0
1,3-Dichloropropene, cis-	Ave	0.4743	0.5220		11.0	10.0	10.1	30.0
Methyl isobutyl ketone	Ave	0.7326	0.9195		12.5	10.0	25.5	30.0
Toluene	Ave	0.6389	0.6611		10.3	10.0	3.5	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-19673-1
 SDG No.: 200-19673
 Lab Sample ID: CCVC 200-65468/27 Calibration Date: 12/04/2013 08:58
 Instrument ID: B.i Calib Start Date: 11/21/2013 11:49
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 11/21/2013 20:29
 Lab File ID: bleh027.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropene, trans-	Ave	0.4846	0.5388		11.1	10.0	11.2	30.0
1,1,2-Trichloroethane	Ave	0.3198	0.3374		10.5	10.0	5.5	30.0
Tetrachloroethene	Ave	0.4280	0.4306		10.1	10.0	0.6	30.0
Dibromochloromethane	Ave	0.5443	0.5633		10.3	10.0	3.5	30.0
1,2-Dibromoethane	Ave	0.5150	0.5312		10.3	10.0	3.1	30.0
Chlorobenzene	Ave	0.7936	0.8103		10.2	10.0	2.1	30.0
Ethylbenzene	Ave	1.385	1.475		10.6	10.0	6.5	30.0
m-Xylene & p-Xylene	Ave	0.5099	0.5372		21.1	20.0	5.4	30.0
o-Xylene	Ave	0.4926	0.5246		10.6	10.0	6.5	30.0
Styrene	Ave	0.7726	0.8380		10.8	10.0	8.5	30.0
Bromoform	Ave	0.5143	0.5182		10.1	10.0	0.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8515	0.8850		10.4	10.0	3.9	30.0
4-Ethyltoluene	Ave	1.481	1.596		10.8	10.0	7.7	30.0
2-Chlorotoluene	Ave	1.285	1.370		10.7	10.0	6.6	30.0
1,3,5-Trimethylbenzene	Ave	1.200	1.329		11.1	10.0	10.8	30.0
1,2,4-Trimethylbenzene	Ave	1.182	1.319		11.2	10.0	11.6	30.0
1,3-Dichlorobenzene	Ave	0.7360	0.7768		10.6	10.0	5.5	30.0
1,4-Dichlorobenzene	Ave	0.7281	0.7630		10.5	10.0	4.8	30.0
1,2-Dichlorobenzene	Ave	0.6900	0.7227		10.5	10.0	4.7	30.0
1,2,4-Trichlorobenzene	Ave	0.4397	0.4623		10.5	10.0	5.1	30.0
Hexachlorobutadiene	Ave	0.4715	0.4728		10.0	10.0	0.3	30.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-19673-1
 SDG No.: 200-19673
 Client Sample ID: _____ Lab Sample ID: MB 200-65468/3
 Matrix: Air Lab File ID: bleh003.d
 Analysis Method: TO15LL/NJ Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 12/03/2013 11:27
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65468 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.20	U	0.20	0.0091
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.086
156-60-5	1,2-Dichloroethene, trans-	0.20	U	0.20	0.023
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.023
156-59-2	1,2-Dichloroethene, cis-	0.20	U	0.20	0.084
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.020
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.013
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.018
79-01-6	Trichloroethene	0.20	U	0.20	0.0092
127-18-4	Tetrachloroethene	0.20	U	0.20	0.015

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-19673-1
 SDG No.: 200-19673
 Client Sample ID: _____ Lab Sample ID: LCS 200-65468/4
 Matrix: Air Lab File ID: bleh004.d
 Analysis Method: TO15LL/NJ Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 12/03/2013 12:19
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 65468 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.227		0.20	0.0091
75-35-4	1,1-Dichloroethene	0.238		0.20	0.086
156-60-5	1,2-Dichloroethene, trans-	0.238		0.20	0.023
75-34-3	1,1-Dichloroethane	0.249		0.20	0.023
156-59-2	1,2-Dichloroethene, cis-	0.232		0.20	0.084
71-55-6	1,1,1-Trichloroethane	0.239		0.20	0.020
56-23-5	Carbon tetrachloride	0.239		0.20	0.013
107-06-2	1,2-Dichloroethane	0.246		0.20	0.018
79-01-6	Trichloroethene	0.239		0.20	0.0092
127-18-4	Tetrachloroethene	0.232		0.20	0.015

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-19673-1

SDG No.: 200-19673

Instrument ID: B.i Start Date: 11/21/2013 09:09

Analysis Batch Number: 65100 End Date: 11/22/2013 08:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-65100/1		11/21/2013 09:09	1	ble001.d	RTX-624 0.32 (mm)
VIBLK 200-65100/2		11/21/2013 10:05	1		RTX-624 0.32 (mm)
ZZZZZ		11/21/2013 10:57	1		RTX-624 0.32 (mm)
IC 200-65100/4		11/21/2013 11:49	1	ble004.d	RTX-624 0.32 (mm)
IC 200-65100/5		11/21/2013 12:41	1	ble005.d	RTX-624 0.32 (mm)
ZZZZZ		11/21/2013 13:33	1		RTX-624 0.32 (mm)
ICIS 200-65100/7		11/21/2013 14:25	1	ble007.d	RTX-624 0.32 (mm)
IC 200-65100/8		11/21/2013 15:17	1	ble008.d	RTX-624 0.32 (mm)
ZZZZZ		11/21/2013 16:09	1		RTX-624 0.32 (mm)
IC 200-65100/10		11/21/2013 17:01	1	ble010.d	RTX-624 0.32 (mm)
IC 200-65100/11		11/21/2013 17:53	1	ble011.d	RTX-624 0.32 (mm)
VIBLK 200-65100/12		11/21/2013 18:45	1		RTX-624 0.32 (mm)
VIBLK 200-65100/13		11/21/2013 19:37	1		RTX-624 0.32 (mm)
IC 200-65100/14		11/21/2013 20:29	1	ble014.d	RTX-624 0.32 (mm)
ZZZZZ		11/21/2013 21:21	1		RTX-624 0.32 (mm)
VIBLK 200-65100/16		11/21/2013 22:13	1		RTX-624 0.32 (mm)
ZZZZZ		11/21/2013 23:05	1		RTX-624 0.32 (mm)
ZZZZZ		11/21/2013 23:57	1		RTX-624 0.32 (mm)
ICV 200-65100/19		11/22/2013 08:57	1	ble019.d	RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-19673-1

SDG No.: 200-19673

Instrument ID: B.i Start Date: 12/03/2013 09:22

Analysis Batch Number: 65468 End Date: 12/04/2013 08:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-65468/1		12/03/2013 09:22	1	bleh001.d	RTX-624 0.32 (mm)
CCVIS 200-65468/2		12/03/2013 10:14	1	bleh002.d	RTX-624 0.32 (mm)
MB 200-65468/3		12/03/2013 11:27	1	bleh003.d	RTX-624 0.32 (mm)
LCS 200-65468/4		12/03/2013 12:19	1	bleh004.d	RTX-624 0.32 (mm)
LCS 200-65468/5		12/03/2013 13:11	1	bleh005.d	RTX-624 0.32 (mm)
LCS 200-65468/6		12/03/2013 14:47	1	bleh006a.d	RTX-624 0.32 (mm)
ZZZZZ		12/03/2013 15:40	0.4		RTX-624 0.32 (mm)
ZZZZZ		12/03/2013 16:32	6.06		RTX-624 0.32 (mm)
ZZZZZ		12/03/2013 17:24	1		RTX-624 0.32 (mm)
ZZZZZ		12/03/2013 18:16	1		RTX-624 0.32 (mm)
ZZZZZ		12/03/2013 19:08	1		RTX-624 0.32 (mm)
ZZZZZ		12/03/2013 20:00	1		RTX-624 0.32 (mm)
ZZZZZ		12/03/2013 20:52	1		RTX-624 0.32 (mm)
ZZZZZ		12/03/2013 21:44	1		RTX-624 0.32 (mm)
ZZZZZ		12/03/2013 22:36	10		RTX-624 0.32 (mm)
ZZZZZ		12/03/2013 23:28	10		RTX-624 0.32 (mm)
ZZZZZ		12/04/2013 00:20	10		RTX-624 0.32 (mm)
ZZZZZ		12/04/2013 01:12	10		RTX-624 0.32 (mm)
ZZZZZ		12/04/2013 02:04	10		RTX-624 0.32 (mm)
ZZZZZ		12/04/2013 02:56	10		RTX-624 0.32 (mm)
ZZZZZ		12/04/2013 03:48	10		RTX-624 0.32 (mm)
ZZZZZ		12/04/2013 04:40	10		RTX-624 0.32 (mm)
200-19673-1	SG-111913-SGP-01	12/04/2013 05:32	10	bleh023.d	RTX-624 0.32 (mm)
200-19673-2	AA-111913-SGP-01	12/04/2013 06:24	10	bleh024.d	RTX-624 0.32 (mm)
ZZZZZ		12/04/2013 07:15	1		RTX-624 0.32 (mm)
CCVC 200-65468/26		12/04/2013 08:09	1	bleh026.d	RTX-624 0.32 (mm)
CCVC 200-65468/27		12/04/2013 08:58	1	bleh027.d	RTX-624 0.32 (mm)

ANALYTICAL REPORT

Job Number: 200-20258-1

SDG Number: 200-20258

Job Description: POM EISB SA Monitoring 1H14

For:

URS Corporation

C/O Dupont

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark, DE 19713

Attention: Ms. Candia Carle



Approved for release.
Don C Dawicki
Manager of Project Management
1/15/2014 8:40 AM

Don C Dawicki, Manager of Project Management
30 Community Drive, South Burlington, VT, 05403
(802)660-1990
don.dawicki@testamericainc.com
01/15/2014

cc: Ms. Norma Eichlin

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

TestAmerica Laboratories, Inc.

TestAmerica Burlington 30 Community Drive, Suite 11, South Burlington, VT 05403

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**ANALYTICAL DATA PACKAGE FOR THE
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NEW JERSEY 08625**

Agency/Division:	NA	Bureau/Office:	NA
Project No:	NA	Contract No.:	NA
Laboratory Name:	TestAmerica Laboratories	Laboratory Location:	South Burlington, Vermont
SDG or Batch No.:	200-20258	NJDEP Certification No.:	VT972
Date of First Sample Receipt:	12/24/2013	Date of Last Sample Receipt:	12/24/2013

Agency Sample Number	Laboratory Sample Number	Sample Location	Date and Time of Collection
AA-122313-SGP-01	200-20258-2	AA-122313-SGP-01	12/23/2013 10:43
SG-122313-SGP-01	200-20258-1	SG-122313-SGP-01	12/23/2013 10:43

I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and in the computer-readable data submitted on disk or electronically has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Laboratory Manager (Typed):	Kirstin Daigle	Date:
Laboratory Manager (Signature):		
Quality Assurance Manager (Typed):	Sara Goff	Date:
Quality Assurance Manager (Signature):		

TestAmerica Burlington

30 Community Drive

Suite 11

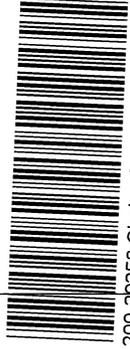
South Burlington, VT 05403

phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

<p>Client Contact Information</p> <p>Company: E.I. DuPont</p> <p>Address: 2000 Cannonball Rd.</p> <p>City/State/Zip: Pompton Lakes, NJ</p> <p>Phone: 973-492-7703</p> <p>FAX: 973-492-7749</p>		<p>Project Manager: Norma Eichlin</p> <p>Phone: 973-492-7703</p> <p>Email: Norma.Eichlin@obg.com</p> <p>Site Contact:</p> <p>TA Contact:</p>		<p>Analysis Turnaround Time</p> <p>Standard (Specify) 14 days</p> <p>Rush (Specify)</p>		<p>Project Manager: Norma Eichlin</p> <p>Phone: 973-492-7703</p> <p>Email: Norma.Eichlin@obg.com</p> <p>Site Contact:</p> <p>TA Contact:</p>		<p>Samples Collected By:</p>		<p>1 of 1 COCs</p>	
<p>Sample Identification</p> <p>SG-122313-SGP-01</p> <p>AA-122313-SGP-01</p>		<p>Sample Date(s)</p> <p>12/23/13 1038</p> <p>12/23/13 1038</p>		<p>Time Start</p> <p>1043</p> <p>1043</p>		<p>Time Stop</p> <p>1043</p> <p>1043</p>		<p>Canister Vacuum in Field, "Hg (Start)</p> <p>29.39</p> <p>29.28</p>		<p>Canister Vacuum in Field, "Hg (Stop)</p> <p>4.00</p> <p>3.52</p>	
								<p>Flow Controller ID</p> <p>7095</p> <p>109334858</p>		<p>Canister ID</p> <p>44</p> <p>3593</p> <p>4858</p>	
										<p>Other (Please specify in notes section)</p>	
										<p>MA-APH</p>	
										<p>EPA 3C</p>	
										<p>EPA 25C</p>	
										<p>ASTM D-1946</p>	
										<p>Other (Please specify in notes section)</p>	
										<p>Indoor Air</p>	
										<p>Ambient Air</p>	
										<p>Soil Gas</p>	
										<p>Landfill Gas</p>	
										<p>Other (Please specify in notes section)</p>	



200-20258 Chain of Custody

Special Instructions/QC Requirements & Comments:

<p>Samples Shipped by: FedEx</p> <p>Samples Relinquished by: Norma Eichlin</p> <p>Relinquished by: [Signature]</p>	<p>Date/Time: 12/23/13</p> <p>Date/Time: 12/23/13/1401</p> <p>Date/Time: 12/24/13 1245</p>	<p>Samples Received by:</p> <p>Received by: [Signature]</p> <p>Received by: [Signature]</p>
---	---	---

Lab Use Only Shipped Name: Operated by: Condition:

From: (973) 492-7729
David Epps

Origin ID: GMVA



Ship Date: 23DEC13
ActWgt: 10.5 LB
CAD: 102577111/INET3430

2000 Cannonball Road



Pompton Lakes, NJ 07442

J13201306280326

Delivery Address Bar Code



SHIP TO: (802) 660-1990

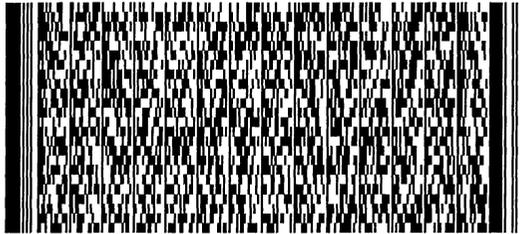
BILL THIRD PARTY

**Sample Receiving
Test America
30 Community Drive
Suite 11
South Burlington, VT 05403**

Ref #
Invoice #
PO #
Dept #

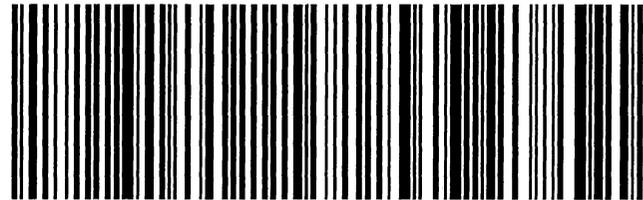
**TUE - 24 DEC 10:30A
PRIORITY OVERNIGHT**

TRK# 7974 9145 7865
0201



EK BTVA

**05403
VT-US
BTVA**



51AG4/99D5/1A9E

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 200-20258-1

SDG Number: 200-20258

Login Number: 20258
List Number: 1
Creator: Lavigne, Scott M

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	117702
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	AMBIENT
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATT15LLCAL4w_00089	03/04/14	12/11/13		15.463 L	ATTO15CAL6w_00081	155 mL	1,1,1-Trichloroethane	0.20044 ppb v/v
							1,1,2,2-Tetrachloroethane	0.20044 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.20044 ppb v/v
							1,1,2-Trichloroethane	0.20044 ppb v/v
							1,1-Dichloroethane	0.20044 ppb v/v
							1,1-Dichloroethene	0.20044 ppb v/v
							1,2,4-Trichlorobenzene	0.20044 ppb v/v
							1,2,4-Trimethylbenzene	0.20044 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20044 ppb v/v
							1,2-Dichlorobenzene	0.20044 ppb v/v
							1,2-Dichloroethane	0.20044 ppb v/v
							1,2-Dichloroethene, cis-	0.20044 ppb v/v
							1,2-Dichloroethene, trans-	0.20044 ppb v/v
							1,2-Dichloropropane	0.20044 ppb v/v
							1,3,5-Trimethylbenzene	0.20044 ppb v/v
							1,3-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dioxane	0.20044 ppb v/v
							2-Butanone (MEK)	0.20044 ppb v/v
							2-Chlorotoluene	0.20044 ppb v/v
2-Methyl-2-propanol	0.20044 ppb v/v							
3-Chloro-1-propene	0.20044 ppb v/v							
4-Ethyltoluene	0.20044 ppb v/v							
4-Methyl-2-pentanone (MIBK)	0.20044 ppb v/v							
Acetone	0.20044 ppb v/v							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	0.20044 ppb v/v
							Bromoform	0.20044 ppb v/v
							Bromomethane	0.20044 ppb v/v
							Butadiene	0.20044 ppb v/v
							Carbon disulfide	0.20044 ppb v/v
							Carbon tetrachloride	0.20044 ppb v/v
							Chlorobenzene	0.20044 ppb v/v
							Chlorodibromomethane	0.20044 ppb v/v
							Chloroethane	0.20044 ppb v/v
							Chloroform	0.20044 ppb v/v
							Chloromethane	0.20044 ppb v/v
							cis-1,3-Dichloropropene	0.20044 ppb v/v
							Cyclohexane	0.20044 ppb v/v
							Dichlorobromomethane	0.20044 ppb v/v
							Dichlorodifluoromethane	0.20044 ppb v/v
							Ethylbenzene	0.20044 ppb v/v
							Ethylene Dibromide	0.20044 ppb v/v
							Hexachlorobutadiene	0.20044 ppb v/v
							Hexane	0.20044 ppb v/v
							Isooctane	0.20044 ppb v/v
							Isopropyl alcohol	0.20044 ppb v/v
							m-Xylene & p-Xylene	0.400879 ppb v/v
							Methyl methacrylate	0.20044 ppb v/v
							Methyl tert-butyl ether	0.20044 ppb v/v
							Methylene Chloride	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Heptane	0.20044 ppb v/v
							o-Xylene	0.20044 ppb v/v
							Styrene	0.20044 ppb v/v
							Tetrachloroethene	0.20044 ppb v/v
							Tetrahydrofuran	0.20044 ppb v/v
							Toluene	0.20044 ppb v/v
							trans-1,3-Dichloropropene	0.20044 ppb v/v
							Trichloroethene	0.20044 ppb v/v
							Trichlorofluoromethane	0.20044 ppb v/v
							Vinyl bromide	0.20044 ppb v/v
							Vinyl chloride	0.20044 ppb v/v
.ATTO15CAL6w_00081	03/04/14	12/09/13	DI WATER, Lot 3212	15.463 L	ATTO15CALSTKi_00050	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
..ATTO15CALSTKi_00050	03/04/14	12/04/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00014	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
...ATTO15CALs_00014	12/12/14		Spectra Gases, Lot cc-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL2w_00112	03/04/14	12/09/13	DI WATER, Lot 2519	15.463 L	ATTO15CAL6w_00081	387 mL	1,1,1-Trichloroethane	0.500453 ppb v/v
							1,1,2,2-Tetrachloroethane	0.500453 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.500453 ppb v/v
							1,1,2-Trichloroethane	0.500453 ppb v/v
							1,1-Dichloroethane	0.500453 ppb v/v
							1,1-Dichloroethene	0.500453 ppb v/v
							1,2,4-Trichlorobenzene	0.500453 ppb v/v
							1,2,4-Trimethylbenzene	0.500453 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.500453 ppb v/v
							1,2-Dichlorobenzene	0.500453 ppb v/v
							1,2-Dichloroethane	0.500453 ppb v/v
							1,2-Dichloroethene, cis-	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethene, trans-	0.500453 ppb v/v
							1,2-Dichloropropane	0.500453 ppb v/v
							1,3,5-Trimethylbenzene	0.500453 ppb v/v
							1,3-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dioxane	0.500453 ppb v/v
							2-Butanone (MEK)	0.500453 ppb v/v
							2-Chlorotoluene	0.500453 ppb v/v
							2-Methyl-2-propanol	0.500453 ppb v/v
							3-Chloro-1-propene	0.500453 ppb v/v
							4-Ethyltoluene	0.500453 ppb v/v
							4-Methyl-2-pentanone (MIBK)	0.500453 ppb v/v
							Acetone	0.500453 ppb v/v
							Benzene	0.500453 ppb v/v
							Bromoform	0.500453 ppb v/v
							Bromomethane	0.500453 ppb v/v
							Butadiene	0.500453 ppb v/v
							Carbon disulfide	0.500453 ppb v/v
							Carbon tetrachloride	0.500453 ppb v/v
							Chlorobenzene	0.500453 ppb v/v
							Chlorodibromomethane	0.500453 ppb v/v
							Chloroethane	0.500453 ppb v/v
							Chloroform	0.500453 ppb v/v
							Chloromethane	0.500453 ppb v/v
							cis-1,3-Dichloropropene	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	0.500453 ppb v/v
							Dichlorobromomethane	0.500453 ppb v/v
							Dichlorodifluoromethane	0.500453 ppb v/v
							Ethylbenzene	0.500453 ppb v/v
							Ethylene Dibromide	0.500453 ppb v/v
							Hexachlorobutadiene	0.500453 ppb v/v
							Hexane	0.500453 ppb v/v
							Isooctane	0.500453 ppb v/v
							Isopropyl alcohol	0.500453 ppb v/v
							m-Xylene & p-Xylene	1.00091 ppb v/v
							Methyl methacrylate	0.500453 ppb v/v
							Methyl tert-butyl ether	0.500453 ppb v/v
							Methylene Chloride	0.500453 ppb v/v
							n-Heptane	0.500453 ppb v/v
							o-Xylene	0.500453 ppb v/v
							Styrene	0.500453 ppb v/v
							Tetrachloroethene	0.500453 ppb v/v
							Tetrahydrofuran	0.500453 ppb v/v
							Toluene	0.500453 ppb v/v
							trans-1,3-Dichloropropene	0.500453 ppb v/v
							Trichloroethene	0.500453 ppb v/v
							Trichlorofluoromethane	0.500453 ppb v/v
							Vinyl bromide	0.500453 ppb v/v
							Vinyl chloride	0.500453 ppb v/v
.ATTO15CAL6w_00081	03/04/14	12/09/13	DI WATER, Lot 3212	15.463 L	ATTO15CALSTKi_00050	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
..ATTO15CALSTKi_00050	03/04/14	12/04/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00014	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
...ATTO15CALs_00014	12/12/14		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	1 ppm v/v
ATTO15CAL3w_00120	03/04/14	12/09/13	DI WATER, Lot 3503	15.463 L	ATTO15CALSTKi_00050	386 mL	1,1,1-Trichloroethane	4.99256 ppb v/v
							1,1,2,2-Tetrachloroethane	4.99256 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	4.99256 ppb v/v
							1,1,2-Trichloroethane	4.99256 ppb v/v
							1,1-Dichloroethane	4.99256 ppb v/v
							1,1-Dichloroethene	4.99256 ppb v/v
							1,2,4-Trichlorobenzene	4.99256 ppb v/v
							1,2,4-Trimethylbenzene	4.99256 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	4.99256 ppb v/v
							1,2-Dichlorobenzene	4.99256 ppb v/v
							1,2-Dichloroethane	4.99256 ppb v/v
							1,2-Dichloroethene, cis-	4.99256 ppb v/v
							1,2-Dichloroethene, trans-	4.99256 ppb v/v
							1,2-Dichloropropane	4.99256 ppb v/v
							1,3,5-Trimethylbenzene	4.99256 ppb v/v
							1,3-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dioxane	4.99256 ppb v/v
							2-Butanone (MEK)	4.99256 ppb v/v
							2-Chlorotoluene	4.99256 ppb v/v
2-Methyl-2-propanol	4.99256 ppb v/v							
3-Chloro-1-propene	4.99256 ppb v/v							
4-Ethyltoluene	4.99256 ppb v/v							
4-Methyl-2-pentanone (MIBK)	4.99256 ppb v/v							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	4.99256 ppb v/v
							Benzene	4.99256 ppb v/v
							Bromoform	4.99256 ppb v/v
							Bromomethane	4.99256 ppb v/v
							Butadiene	4.99256 ppb v/v
							Carbon disulfide	4.99256 ppb v/v
							Carbon tetrachloride	4.99256 ppb v/v
							Chlorobenzene	4.99256 ppb v/v
							Chlorodibromomethane	4.99256 ppb v/v
							Chloroethane	4.99256 ppb v/v
							Chloroform	4.99256 ppb v/v
							Chloromethane	4.99256 ppb v/v
							cis-1,3-Dichloropropene	4.99256 ppb v/v
							Cyclohexane	4.99256 ppb v/v
							Dichlorobromomethane	4.99256 ppb v/v
							Dichlorodifluoromethane	4.99256 ppb v/v
							Ethylbenzene	4.99256 ppb v/v
							Ethylene Dibromide	4.99256 ppb v/v
							Hexachlorobutadiene	4.99256 ppb v/v
							Hexane	4.99256 ppb v/v
							Isooctane	4.99256 ppb v/v
							Isopropyl alcohol	4.99256 ppb v/v
							m-Xylene & p-Xylene	9.98513 ppb v/v
							Methyl methacrylate	4.99256 ppb v/v
							Methyl tert-butyl ether	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	4.99256 ppb v/v
							n-Heptane	4.99256 ppb v/v
							o-Xylene	4.99256 ppb v/v
							Styrene	4.99256 ppb v/v
							Tetrachloroethene	4.99256 ppb v/v
							Tetrahydrofuran	4.99256 ppb v/v
							Toluene	4.99256 ppb v/v
							trans-1,3-Dichloropropene	4.99256 ppb v/v
							Trichloroethene	4.99256 ppb v/v
							Trichlorofluoromethane	4.99256 ppb v/v
							Vinyl bromide	4.99256 ppb v/v
							Vinyl chloride	4.99256 ppb v/v
.ATTO15CALSTKi_00050	03/04/14	12/04/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00014	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00014	12/12/14		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL4w_00322	03/04/14	12/09/13	DI WATER, Lot 2782	15.463 L	ATTO15CALSTKi_00050	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, cis-	9.99806 ppb v/v
							1,2-Dichloroethene, trans-	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2-Butanone (MEK)	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v
							2-Methyl-2-propanol	9.99806 ppb v/v
							3-Chloro-1-propene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Ethyltoluene	9.99806 ppb v/v
							4-Methyl-2-pentanone (MIBK)	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Butadiene	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chlorodibromomethane	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dichlorobromomethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Ethylene Dibromide	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Hexane	9.99806 ppb v/v
							Isooctane	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m-Xylene & p-Xylene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							o-Xylene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl bromide	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
.ATTO15CALSTKi_00050	03/04/14	12/04/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00014	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00014	12/12/14		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL5w_00042	03/04/14	12/09/13	DI WATER, Lot 3141	15.463 L	ATTO15CALSTKi_00050	1160 mL	1,1,1-Trichloroethane	15.0036 ppb v/v
							1,1,2,2-Tetrachloroethane	15.0036 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	15.0036 ppb v/v
							1,1,2-Trichloroethane	15.0036 ppb v/v
							1,1-Dichloroethane	15.0036 ppb v/v
							1,1-Dichloroethene	15.0036 ppb v/v
							1,2,4-Trichlorobenzene	15.0036 ppb v/v
							1,2,4-Trimethylbenzene	15.0036 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	15.0036 ppb v/v
							1,2-Dichlorobenzene	15.0036 ppb v/v
							1,2-Dichloroethane	15.0036 ppb v/v
							1,2-Dichloroethene, cis-	15.0036 ppb v/v
							1,2-Dichloroethene, trans-	15.0036 ppb v/v
							1,2-Dichloropropane	15.0036 ppb v/v
							1,3,5-Trimethylbenzene	15.0036 ppb v/v
							1,3-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dioxane	15.0036 ppb v/v
							2-Butanone (MEK)	15.0036 ppb v/v
							2-Chlorotoluene	15.0036 ppb v/v
							2-Methyl-2-propanol	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	15.0036 ppb v/v
							4-Ethyltoluene	15.0036 ppb v/v
							4-Methyl-2-pentanone (MIBK)	15.0036 ppb v/v
							Acetone	15.0036 ppb v/v
							Benzene	15.0036 ppb v/v
							Bromoform	15.0036 ppb v/v
							Bromomethane	15.0036 ppb v/v
							Butadiene	15.0036 ppb v/v
							Carbon disulfide	15.0036 ppb v/v
							Carbon tetrachloride	15.0036 ppb v/v
							Chlorobenzene	15.0036 ppb v/v
							Chlorodibromomethane	15.0036 ppb v/v
							Chloroethane	15.0036 ppb v/v
							Chloroform	15.0036 ppb v/v
							Chloromethane	15.0036 ppb v/v
							cis-1,3-Dichloropropene	15.0036 ppb v/v
							Cyclohexane	15.0036 ppb v/v
							Dichlorobromomethane	15.0036 ppb v/v
							Dichlorodifluoromethane	15.0036 ppb v/v
							Ethylbenzene	15.0036 ppb v/v
							Ethylene Dibromide	15.0036 ppb v/v
							Hexachlorobutadiene	15.0036 ppb v/v
							Hexane	15.0036 ppb v/v
							Isooctane	15.0036 ppb v/v
							Isopropyl alcohol	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	30.0071 ppb v/v
							Methyl methacrylate	15.0036 ppb v/v
							Methyl tert-butyl ether	15.0036 ppb v/v
							Methylene Chloride	15.0036 ppb v/v
							n-Heptane	15.0036 ppb v/v
							o-Xylene	15.0036 ppb v/v
							Styrene	15.0036 ppb v/v
							Tetrachloroethene	15.0036 ppb v/v
							Tetrahydrofuran	15.0036 ppb v/v
							Toluene	15.0036 ppb v/v
							trans-1,3-Dichloropropene	15.0036 ppb v/v
							Trichloroethene	15.0036 ppb v/v
							Trichlorofluoromethane	15.0036 ppb v/v
							Vinyl bromide	15.0036 ppb v/v
							Vinyl chloride	15.0036 ppb v/v
.ATTO15CALSTKi_00050	03/04/14	12/04/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00014	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00014	12/12/14		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL6w_00081	03/04/14	12/09/13	DI WATER, Lot 3212	15.463 L	ATTO15CALSTKi_00050	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
.ATTO15CALSTKi_00050	03/04/14	12/04/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00014	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
Trichloroethene	200 ppb v/v							
Trichlorofluoromethane	200 ppb v/v							
Vinyl bromide	200 ppb v/v							
Vinyl chloride	200 ppb v/v							
..ATTO15CALs_00014	12/12/14		Spectra Gases, Lot cc-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL7w_00043	03/04/14	12/09/13	DI WATER, Lot 3197	15.463 L	ATTO15CALSTKi_00050	3092 mL	1,1,1-Trichloroethane	39.9922 ppb v/v
							1,1,2,2-Tetrachloroethane	39.9922 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	39.9922 ppb v/v
							1,1,2-Trichloroethane	39.9922 ppb v/v
							1,1-Dichloroethane	39.9922 ppb v/v
							1,1-Dichloroethene	39.9922 ppb v/v
							1,2,4-Trichlorobenzene	39.9922 ppb v/v
							1,2,4-Trimethylbenzene	39.9922 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	39.9922 ppb v/v
							1,2-Dichlorobenzene	39.9922 ppb v/v
							1,2-Dichloroethane	39.9922 ppb v/v
							1,2-Dichloroethene, cis-	39.9922 ppb v/v
							1,2-Dichloroethene, trans-	39.9922 ppb v/v
							1,2-Dichloropropane	39.9922 ppb v/v
							1,3,5-Trimethylbenzene	39.9922 ppb v/v
							1,3-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dioxane	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Butanone (MEK)	39.9922 ppb v/v
							2-Chlorotoluene	39.9922 ppb v/v
							2-Methyl-2-propanol	39.9922 ppb v/v
							3-Chloro-1-propene	39.9922 ppb v/v
							4-Ethyltoluene	39.9922 ppb v/v
							4-Methyl-2-pentanone (MIBK)	39.9922 ppb v/v
							Acetone	39.9922 ppb v/v
							Benzene	39.9922 ppb v/v
							Bromoform	39.9922 ppb v/v
							Bromomethane	39.9922 ppb v/v
							Butadiene	39.9922 ppb v/v
							Carbon disulfide	39.9922 ppb v/v
							Carbon tetrachloride	39.9922 ppb v/v
							Chlorobenzene	39.9922 ppb v/v
							Chlorodibromomethane	39.9922 ppb v/v
							Chloroethane	39.9922 ppb v/v
							Chloroform	39.9922 ppb v/v
							Chloromethane	39.9922 ppb v/v
							cis-1,3-Dichloropropene	39.9922 ppb v/v
							Cyclohexane	39.9922 ppb v/v
							Dichlorobromomethane	39.9922 ppb v/v
							Dichlorodifluoromethane	39.9922 ppb v/v
							Ethylbenzene	39.9922 ppb v/v
							Ethylene Dibromide	39.9922 ppb v/v
							Hexachlorobutadiene	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	39.9922 ppb v/v
							Isooctane	39.9922 ppb v/v
							Isopropyl alcohol	39.9922 ppb v/v
							m-Xylene & p-Xylene	79.9845 ppb v/v
							Methyl methacrylate	39.9922 ppb v/v
							Methyl tert-butyl ether	39.9922 ppb v/v
							Methylene Chloride	39.9922 ppb v/v
							n-Heptane	39.9922 ppb v/v
							o-Xylene	39.9922 ppb v/v
							Styrene	39.9922 ppb v/v
							Tetrachloroethene	39.9922 ppb v/v
							Tetrahydrofuran	39.9922 ppb v/v
							Toluene	39.9922 ppb v/v
							trans-1,3-Dichloropropene	39.9922 ppb v/v
							Trichloroethene	39.9922 ppb v/v
							Trichlorofluoromethane	39.9922 ppb v/v
							Vinyl bromide	39.9922 ppb v/v
							Vinyl chloride	39.9922 ppb v/v
.ATTO15CALSTKi_00050	03/04/14	12/04/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00014	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..ATTO15CALs_00014	12/12/14		Spectra Gases, Lot cc-250179			(Purchased Reagent)	Vinyl chloride	200 ppb v/v
							1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

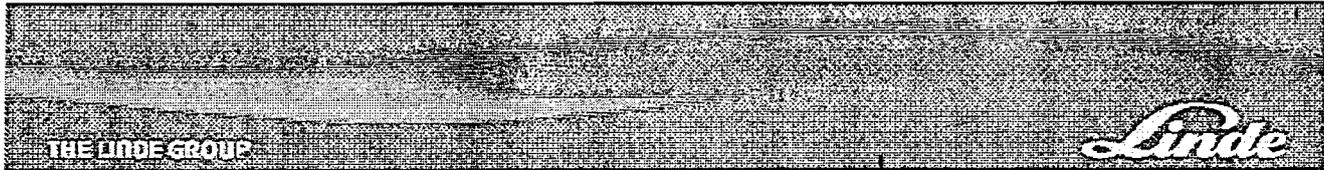
Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15LCSW_00340	02/12/14	11/20/13	DI WATER, Lot 3332	15.463 L	ATTO15LCSSTKi_00045	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, cis-	9.99806 ppb v/v
							1,2-Dichloroethene, trans-	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
.ATTO15LCSSTKi_00045	02/12/14	11/12/13	DI WATER, Lot 7951	37.5 L	ATTO15LCSS_00014	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15LCSS_00014	12/12/14		Spectra Gases, Lot CC-230119		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20258-1

SDG No.: 200-20258

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15WISs_00002	11/23/15		Spectra Gases, Lot CC-172855			(Purchased Reagent)	1,4-Difluorobenzene	100 ppb v/v
							Chlorobenzene-d5	100 ppb v/v
							Chlorobromomethane	100 ppb v/v



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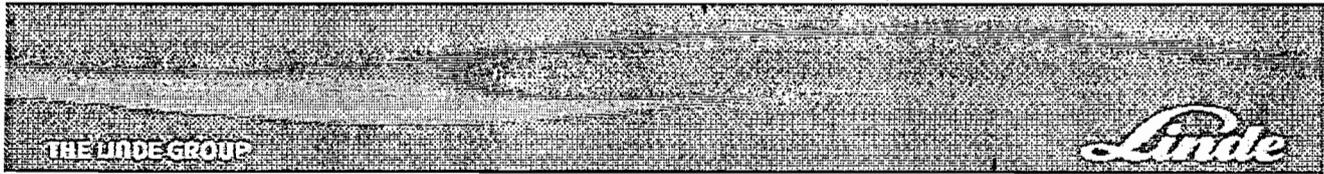
ID: ATTO15CALs_00009
Exp:12/05/13 Pripd:WRD Opn:12/05/12
TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#: 109735129
Production#: 2851880
Certification Date: Dec-05-2012
P.O.# : Verbal-Recert
Blend Type: CERTIFIED
Material#: 14004443
Traceability: NIST by weight
Expiration Date: Dec-05-2013
Do NOT use under: 150 psig

Cylinder Size: 2A (8" X 47.5")
Cylinder # : CC-250179
Cylinder Pressure: 1100 psig
Cylinder Valve: CGA 350 / Steel
Cylinder Volume: 29.5 Liter
Cylinder Material: Aluminum
Gas Volume: 2200 Liter
Blend Tolerance: 10% Relative
Analytical Accuracy: 5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Propylene	115-07-1	1.00 ppm	1.04 ppm
Chlorodifluoromethane	75-45-6	1.00 ppm	1.02 ppm
Freon-12	75-71-8	1.00 ppm	0.97 ppm
Chloromethane	74-87-3	1.00 ppm	0.98 ppm
Freon-114	76-14-2	1.00 ppm	0.98 ppm
Vinyl Chloride	75-01-4	1.00 ppm	0.98 ppm
1,3-Butadiene	106-99-0	1.00 ppm	1.01 ppm
Methanol (No Stability Guarantee)	67-56-1	1.00 ppm	0.94 ppm
n-Butane	106-97-8	1.00 ppm	1.03 ppm
Bromomethane	74-83-9	1.00 ppm	1.00 ppm
Chloroethane	75-00-3	1.00 ppm	0.98 ppm
Vinyl Bromide	593-60-2	1.00 ppm	1.06 ppm
Acetonitrile (Analytical Accuracy +/-10%)		1.00 ppm	1.02 ppm
Acrolein (Analytical Accuracy +/-10%)		1.00 ppm	1.10 ppm
Isopentane	78-78-4	1.00 ppm	1.06 ppm
Acetone	67-64-1	1.00 ppm	1.06 ppm
Freon-11	75-69-4	1.00 ppm	0.95 ppm
Isopropyl Alcohol	67-63-0	1.00 ppm	1.01 ppm
Acrylonitrile	107-13-1	1.00 ppm	1.06 ppm
n-Pentane	109-66-0	1.00 ppm	1.06 ppm
Ethyl Ether	60-29-7	1.00 ppm	1.09 ppm
1,1-Dichloroethene	75-35-4	1.00 ppm	0.98 ppm
Carbon Disulfide (Analytical Accuracy +/- 10%)	75-15-0	1.00 ppm	1.03 ppm
Methylene Chloride	75-09-2	1.00 ppm	1.03 ppm
Tert-Butanol		1.00 ppm	1.03 ppm
3-Chloropropene	107-05-1	1.00 ppm	1.03 ppm
Freon-113	76-13-1	1.00 ppm	0.97 ppm
Trans-1,2-Dichloroethene	156-60-5	1.00 ppm	1.04 ppm
1,1-Dichloroethane	75-34-3	1.00 ppm	1.02 ppm
Methyl Tert Butyl Ether	1634-04-4	1.00 ppm	1.04 ppm



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439415

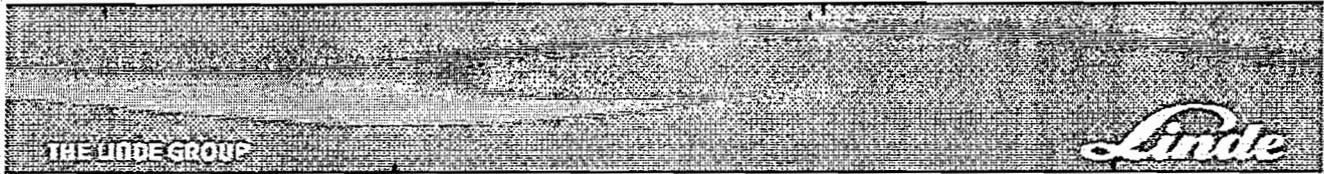
ID: ATTO15CALs_00009
Exp: 12/05/13 Ppd: WRD Opr: 12/05/12
TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#: 109735129
Production#: 2851880
Certification Date: Dec-05-2012
P.O.# : Verbal-Recert
Blend Type: CERTIFIED
Material#: 14004443
Traceability: NIST by weight
Expiration Date: Dec-05-2013
Do NOT use under: 150 psig

Cylinder Size: 2A (8" X 47.5")
Cylinder # : CC-250179
Cylinder Pressure: 1100 psig
Cylinder Valve: CGA 350 / Steel
Cylinder Volume: 29.5 Liter
Cylinder Material: Aluminum
Gas Volume: 2200 Liter
Blend Tolerance: 10% Relative
Analytical Accuracy: 5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Vinyl Acetate	108-05-4	1.00 ppm	1.03 ppm
Methyl Ethyl Ketone	78-93-3	1.00 ppm	1.09 ppm
Cis-1,2-Dichloroethene	156-59-2	1.00 ppm	1.02 ppm
Hexane	110-54-3	1.00 ppm	1.09 ppm
Chloroform	67-66-3	1.00 ppm	1.04 ppm
Ethyl Acetate	141-78-6	1.00 ppm	1.04 ppm
Tetrahydrofuran	109-99-9	1.00 ppm	1.08 ppm
1,2-Dichloroethane	107-06-2	1.00 ppm	1.04 ppm
1,1,1-Trichloroethane	71-55-6	1.00 ppm	1.02 ppm
Benzene	71-43-2	1.00 ppm	1.04 ppm
1-Butanol	71-36-3	1.00 ppm	1.07 ppm
Carbon Tetrachloride	56-23-5	1.00 ppm	1.05 ppm
Cyclohexane	110-82-7	1.00 ppm	1.06 ppm
Dibromomethane	74-95-3	1.00 ppm	1.05 ppm
1,2-Dichloropropane	78-87-5	1.00 ppm	1.05 ppm
Trichloroethylene	79-01-6	1.00 ppm	1.05 ppm
Bromodichloromethane	75-27-4	1.00 ppm	1.05 ppm
1,4-Dioxane	123-91-1	1.00 ppm	1.05 ppm
2,2,4-Trimethylpentane	540-84-1	1.00 ppm	1.03 ppm
Methyl Methacrylate	80-62-6	1.00 ppm	1.06 ppm
Heptane	142-82-5	1.00 ppm	1.06 ppm
Cis-1,3-Dichloropropene	10061-01-5	1.00 ppm	1.03 ppm
Methyl Isobutyl Ketone	108-10-1	1.00 ppm	1.06 ppm
Trans-1,3-Dichloropropene	10061-02-6	1.00 ppm	1.12 ppm
1,1,2-Trichloroethane	79-00-5	1.00 ppm	1.08 ppm
Toluene	108-88-3	1.00 ppm	1.07 ppm
Methyl Butyl Ketone	591-78-6	1.00 ppm	1.10 ppm
Dibromochloromethane	124-48-1	1.00 ppm	1.09 ppm
1,2-Dibromoethane	106-93-4	1.00 ppm	1.07 ppm
n-Octane	111-65-9	1.00 ppm	1.05 ppm



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PAGE: 3 of 4



439415

ID: ATTO15CALs_00009
Exp:12/05/13 Prpd:WRD Opm:12/05/12
TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#: 109735129
Production#: 2851880
Certification Date: Dec-05-2012
P.O.# : Verbal-Recert
Blend Type: CERTIFIED
Material#: 14004443
Traceability: NIST by weight
Expiration Date: Dec-05-2013
Do NOT use under: 150 psig

Cylinder Size: 2A (8" X 47.5")
Cylinder # : CC-250179
Cylinder Pressure: 1100 psig
Cylinder Valve: CGA 350 / Steel
Cylinder Volume: 29.5 Liter
Cylinder Material: Aluminum
Gas Volume: 2200 Liter
Blend Tolerance: 10% Relative
Analytical Accuracy: 5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Tetrachloroethylene	127-18-4	1.00 ppm	1.00 ppm
Chlorobenzene	108-90-7	1.00 ppm	1.09 ppm
Ethylbenzene	100-41-4	1.00 ppm	1.06 ppm
p-xylene	106-42-3	1.00 ppm	1.05 ppm
m-xylene	108-38-3	1.00 ppm	1.05 ppm
Bromoform	75-25-2	1.00 ppm	1.05 ppm
Styrene	100-42-5	1.00 ppm	1.08 ppm
o-xylene	95-47-6	1.00 ppm	1.08 ppm
1,1,2,2-Tetrachloroethane	79-34-5	1.00 ppm	1.08 ppm
1,2,3-Trichloropropane	96-18-4	1.00 ppm	1.05 ppm
Nonane	111-84-2	1.00 ppm	1.03 ppm
Cumene	98-82-8	1.00 ppm	1.05 ppm
2-Chlorotoluene	95-49-8	1.00 ppm	1.08 ppm
n-Propylbenzene	103-65-1	1.00 ppm	1.00 ppm
4-Ethyltoluene	622-96-8	1.00 ppm	1.07 ppm
1,3,5-Trimethylbenzene	108-67-8	1.00 ppm	1.07 ppm
alpha-Methyl Styrene (no stability guarantee)	98-83-9	1.00 ppm	1.03 ppm
Tert-Butyl Benzene	98-06-6	1.00 ppm	1.05 ppm
1,2,4-Trimethylbenzene	95-63-6	1.00 ppm	1.05 ppm
1,3-Dichlorobenzene	541-73-1	1.00 ppm	1.09 ppm
Benzyl Chloride (Analytical Accuracy +/- 10%)	100-44-7	1.00 ppm	1.09 ppm
n-Decane	124-18-5	1.00 ppm	1.05 ppm
1,4-Dichlorobenzene	106-46-7	1.00 ppm	1.05 ppm
Sec-Butyl Benzene	135-98-8	1.00 ppm	1.02 ppm
4-Isopropyltoluene	99-87-6	1.00 ppm	1.02 ppm
1,2-Dichlorobenzene	95-50-1	1.00 ppm	1.10 ppm
n-Butyl Benzene	104-51-8	1.00 ppm	1.04 ppm
n-Undecane	1120-21-4	1.00 ppm	0.97 ppm



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PAGE: 4 of 4



439415

ID: ATTO15CALs_00009
Exp:12/05/13 Prpd:WRD Opn:12/05/12
TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#:	109735129	Cylinder Size:	2A (8" X 47.5")
Production#:	2851880	Cylinder # :	CC-250179
Certification Date:	Dec-05-2012	Cylinder Pressure:	1100 psig
P.O.# :	Verbal-Recert	Cylinder Valve:	CGA 350 / Steel
Blend Type:	CERTIFIED	Cylinder Volume:	29.5 Liter
Material#:	14004443	Cylinder Material:	Aluminum
Traceability:	NIST by weight	Gas Volume:	2200 Liter
Expiration Date:	Dec-05-2013	Blend Tolerance:	10% Relative
Do NOT use under:	150 psig	Analytical Accuracy:	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
1,2,4-Trichlorobenzene	120-82-1	1.00 ppm	1.08 ppm
Naphthalene (Analytical Accuracy +/- 10%)	91-20-3	1.00 ppm	1.03 ppm
n-Dodecane	112-40-3	1.00 ppm	0.95 ppm
1,2,3-Trichlorobenzene	87-61-6	1.00 ppm	1.05 ppm
Hexachloro-1,3-Butadiene	87-68-3	1.00 ppm	1.09 ppm
Nitrogen	7727-37-9	Balance	Balance

ANALYST: *Lou Lorenzetti*
Lou Lorenzetti

DATE: Dec-05-2012



Spectra Gases, Inc.

3434 Route 22 West, Branchburg, New Jersey 08876 USA

ISO 9001:2000

Recut AT 02-010-05 11/10/08 -> 11/10/09

-CS

Corporate Cal Mix.

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208 South Park Drive, Suite 1
Colchester, VT 05446
PAGE: 1 of 4
Exp 1/6/10
MTP 3/2/09

AT 0200614 Lot # 2426

CERTIFICATE OF ANALYSIS

1/9/06 DWW

SGI ORDER #: 0082390
ITEM#: 1
CERTIFICATION DATE: 12/28/2005
P.O.#: 2129987
BLEND TYPE: CERTIFIED
CYLINDER #: CC-230119
CYLINDER PRES: 2000 psig
CYLINDER VALVE: CGA 350
PRODUCT EXPIRATION DATE: 12/28/2006
Recut 1/12/07



439437
ID: ATTO15LCSs_00011
Exp: 12/05/13 Prip: WRD Opm: 12/14/10
TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Propylene	1.00 ppm	1.05 ppm
Freon-22	1.00 ppm	1.04 ppm
Freon-12	1.00 ppm	0.99 ppm
Chloromethane	1.00 ppm	0.99 ppm
Freon-114	1.00 ppm	0.96 ppm
Vinyl Chloride	1.00 ppm	0.99 ppm
1,3-Butadiene	1.00 ppm	1.07 ppm
Methanol (no stability guarantee)	1.00 ppm	1.08 ppm
n-Butane	1.00 ppm	1.03 ppm
Bromomethane	1.00 ppm	0.98 ppm
Chloroethane	1.00 ppm	0.97 ppm
Vinyl Bromide	1.00 ppm	1.05 ppm
Carbon Disulfide (no stability guarantee)	1.00 ppm	1.05 ppm
Acetonitrile	1.00 ppm	1.10 ppm
Acrolien (no stability guarantee)	1.00 ppm	1.06 ppm
Isopentane	1.00 ppm	1.09 ppm
Acetone	1.00 ppm	1.02 ppm
Freon-11	1.00 ppm	1.02 ppm
Isopropyl Alcohol	1.00 ppm	1.05 ppm
Acrylonitrile	1.00 ppm	1.08 ppm
Pentane	1.00 ppm	1.07 ppm
Ethyl Ether	1.00 ppm	1.06 ppm
1,1-Dichloroethene	1.00 ppm	1.09 ppm
Methylene Chloride	1.00 ppm	1.05 ppm
Tert-Butyl Alcohol	1.00 ppm	1.10 ppm
3-Chloropropene	1.00 ppm	1.10 ppm
Freon-113	1.00 ppm	1.07 ppm
Trans-1,2-Dichloroethene	1.00 ppm	1.03 ppm
1,1-Dichloroethane	1.00 ppm	1.04 ppm
Methyl Tert Butyl Ether	1.00 ppm	1.07 ppm



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SHIPPED TO: Severn Trent Labs - Burlington
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Colchester, VT 05446

PAGE: 2 of 4

**CERTIFICATE
OF
ANALYSIS**

SGI ORDER # :	0082390	CYLINDER # :	CC-230119
ITEM# :	1	CYLINDER PRES:	2000 psig
CERTIFICATION DATE:	12/28/2005	CYLINDER VALVE:	CGA 350
P.O.# :	2129987	PRODUCT EXPIRATION DATE:	12/28/2006
BLEND TYPE:	CERTIFIED		



439437

ID: ATTO15LCSs_00011
Exp: 12/05/13 P: 10 WRD Opn: 12/14/10
TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Vinyl Acetate	1.00 ppm	1.06 ppm
Methyl Ethyl Ketone	1.00 ppm	1.10 ppm
Cis-1,2-Dichloroethene	1.00 ppm	1.05 ppm
Hexane	1.00 ppm	1.10 ppm
Ethyl Acetate	1.00 ppm	1.07 ppm
Chloroform	1.00 ppm	1.07 ppm
Tetrahydrofuran	1.00 ppm	1.09 ppm
1,2-Dichloroethane	1.00 ppm	1.04 ppm
1,1,1-Trichloroethane	1.00 ppm	1.03 ppm
Benzene	1.00 ppm	1.03 ppm
1-Butanol	1.00 ppm	1.10 ppm
Carbon Tetrachloride	1.00 ppm	1.05 ppm
Cyclohexane	1.00 ppm	1.08 ppm
Dibromomethane	1.00 ppm	1.01 ppm
1,2-Dichloropropane	1.00 ppm	1.03 ppm
Trichloroethylene	1.00 ppm	1.04 ppm
Bromodichloromethane	1.00 ppm	1.04 ppm
1,4-Dioxane	1.00 ppm	1.04 ppm
2,2,4-Trimethylpentane	1.00 ppm	1.04 ppm
Methyl Methacrylate	1.00 ppm	1.06 ppm
Heptane	1.00 ppm	1.07 ppm
Cis-1,3-Dichloropropene	1.00 ppm	1.04 ppm
Methyl Isobutyl Ketone	1.00 ppm	1.07 ppm
Trans-1,3-Dichloropropene	1.00 ppm	1.10 ppm
1,1,2-Trichloroethane	1.00 ppm	1.01 ppm
Toluene	1.00 ppm	1.04 ppm
Methyl Butyl Ketone	1.00 ppm	1.08 ppm
Dibromochloromethane	1.00 ppm	1.10 ppm
1,2-Dibromoethane	1.00 ppm	0.99 ppm
n-Octane	1.00 ppm	1.04 ppm



3434 Route 22 West, Branchburg, New Jersey 08876 USA
 ISO 9001:2000

SHIPPED FROM: 80 INDUSTRIAL DRIVE ALPHA, NJ. 08865

SHIPPED TO: Severn Trent Labs - Burlington
 208 South Park Drive, Suite 1
 Colchester, VT 05446

PAGE: 3 of 4

**CERTIFICATE
 OF
 ANALYSIS**

SGI ORDER # : 0082390
 ITEM# : 1
 CERTIFICATION DATE: 12/28/2005
 P.O.# : 2129987
 BLEND TYPE: CERTIFIED

CYLINDER # : CC-230119
 CYLINDER PRES: 2000 psig
 CYLINDER VALVE: CGA 350
 PRODUCT EXPIRATION DATE: 12/28/2006



439437
 ID: ATTO15LCSs_00011
 Exp:12/05/13 Prpd:WRD Opn:12/14/10
 TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Tetrachloroethylene	1.00 ppm	1.02 ppm
Chlorobenzene	1.00 ppm	1.03 ppm
Ethylbenzene	1.00 ppm	1.04 ppm
p-Xylene	1.00 ppm	1.03 ppm
m-Xylene	1.00 ppm	1.03 ppm
Bromoform	1.00 ppm	1.03 ppm
Styrene	1.00 ppm	1.03 ppm
O-Xylene	1.00 ppm	1.02 ppm
1,1,2,2-Tetrachloroethane	1.00 ppm	1.02 ppm
1,2,3-Trichloropropane	1.00 ppm	1.04 ppm
Nonane	1.00 ppm	1.04 ppm
Cumene	1.00 ppm	1.07 ppm
2-Chlorotoluene	1.00 ppm	1.09 ppm
n-Propylbenzene	1.00 ppm	1.05 ppm
4-Ethyltoluene	1.00 ppm	1.10 ppm
1,3,5-Trimethylbenzene	1.00 ppm	1.04 ppm
a-Methylstyrene (no stability guarantee)	1.00 ppm	1.06 ppm
Tert-Butylbenzene	1.00 ppm	1.03 ppm
1,2,4-Trimethylbenzene	1.00 ppm	1.04 ppm
1,3-Dichlorobenzene	1.00 ppm	1.07 ppm
Benzyl Chloride (no stability guarantee)	1.00 ppm	1.07 ppm
n-Decane	1.00 ppm	1.03 ppm
1,4-Dichlorobenzene	1.00 ppm	1.01 ppm
Sec-Butylbenzene	1.00 ppm	1.03 ppm
4-Isopropyltoluene	1.00 ppm	1.04 ppm
1,2-Dichlorobenzene	1.00 ppm	1.01 ppm
n-Butylbenzene	1.00 ppm	1.03 ppm
n-Undecane	1.00 ppm	1.06 ppm
1,2,4-Trichlorobenzene	1.00 ppm	1.09 ppm
Napthalene (no stability guarantee)	1.00 ppm	1.10 ppm

SHIPPED FROM: 80 INDUSTRIAL DRIVE ALPHA, NJ. 08865

SHIPPED TO: Severn Trent Labs - Burlington
208 South Park Drive, Suite 1
Colchester, VT 05446

PAGE: 4 of 4

**CERTIFICATE
OF
ANALYSIS**

SGI ORDER # :	0082390	CYLINDER # :	CC-230119
ITEM# :	1	CYLINDER PRES:	2000 psig
CERTIFICATION DATE:	12/28/2005	CYLINDER VALVE:	CGA 350
P.O.# :	2129987	PRODUCT EXPIRATION DATE:	12/28/2006
BLEND TYPE:	CERTIFIED		



439437
ID: ATTO15LCSs_00011
Exp:12/05/13 PpPd:WRD Opn:12/14/10
TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
n-Dodecane	1.00 ppm	1.08 ppm
1,2,3-Trichlorobenzene	1.00 ppm	1.03 ppm
Hexachloro-1,3-Butadiene	1.00 ppm	1.06 ppm
Nitrogen	Balance	Balance

ANALYST: 
April Chamberlain

DATE: 12/29/2005



3434 Route 22 West, Branchburg, New Jersey 08876 USA

ISO 9001:2000

SHIPPED FROM: 80 INDUSTRIAL DRIVE ALPHA, NJ. 08865

SHIPPED TO: Severn Trent Labs
208 South Park Drive
Suite 1
Colchester, VT 05446

*AT 02 008 13.
Recat AT-02-010-13 exp 12/10/08*

CERTIFICATE
OF
ANALYSIS

Instrument 1

SGI ORDER #: 101783
ITEM#: 1
CERTIFICATION DATE: 12/27/2006
P.O.#: 2172385
BLEND TYPE: CERTIFIED

CYLINDER #: CC-250115
CYLINDER PRES: 2000 psig
CYLINDER VALVE: CGA 350
PRODUCT EXPIRATION DATE: 12/27/2007

ANALYTICAL ACCURACY: +/- 10%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Bromochloromethane	100 ppb	103 ppb
1,4-Difluorobenzene	100 ppb	106 ppb
Chlorobenzene-d5	100 ppb	106 ppb
4-Bromofluorobenzene	100 ppb	107 ppb
Nitrogen	Balance	Balance



248052

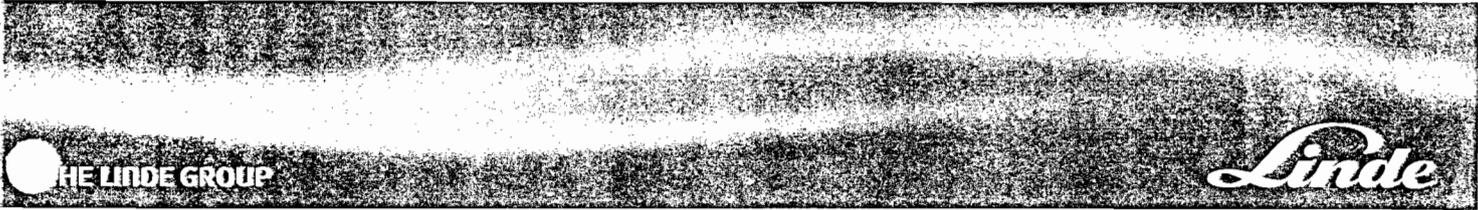
ID: ATTO15CISs_00005

Exp 11/15/15 Prod WFO Ops 12/01/10
Internal Standard for Ins

ANALYST:

April Chamberlain
April Chamberlain

DATE: 12/27/2006



SHIPPED TO: Test America-Burlington
 30 Community Drive, Suite 11
 South Burlington, VT 05403

PAGE: 1 of 1

CERTIFICATE OF ANALYSIS

Sales#: 107763353
Production#: 1160209
Certification Date: 15/11/2010
P.O.# : 2391727
Blend Type: CERTIFIED
Material#: 24088974

Expiration Date: 15/11/2011
Do NOT use under: 150 psig


 248062
 ID: ATTO15GIS_00007
 Exp 11/15/15 Pipd WFO Open 11/18/10
 Instrument G Internal Sta

Cylinder Size: 2A (8" X 47.5")
Cylinder # : CC-344439
Cylinder Pressure: 2000 psig
Cylinder Valve: CGA 350 / Steel
Cylinder Volume: 29.5 Liter
Cylinder Material: Aluminum
Gas Volume: 4000 Liter
Blend Tolerance: 10% Relative
Analytical Accuracy: 10% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Bromochloromethane		100 ppb	104 ppb
1,4-Difluorobenzene		100 ppb	104 ppb
Chlorobenzene-d5		100 ppb	106 ppb
4-Bromofluorobenzene		100 ppb	104 ppb
Nitrogen		Balance	Balance

SOURCE REFERENCE# 269712

ANALYST: 
 Lou Lorenzetti

DATE: 15/11/2010



3434 Route 22 West, Branchburg, New Jersey 08876 USA

ISO 9001:2000

G

SHIPPED FROM: 80 INDUSTRIAL DRIVE ALPHA, NJ. 08865

SHIPPED TO: Test America - Burlington
30 Community Drive
South Burlington, VT 05403 USA

AT02-00-13

CERTIFICATE
OF
ANALYSIS

SGI ORDER # :	140016	CYLINDER # :	CC-279057
ITEM# :	1	CYLINDER PRES:	2000 psig
CERTIFICATION DATE:	12/11/2008	CYLINDER VALVE:	CGA 350
P.O.# :	2282386	PRODUCT EXPIRATION DATE:	12/11/2009
BLEND TYPE:	CERTIFIED		

ANALYTICAL ACCURACY: +/-10%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Bromochloromethane	100 ppb	103 ppb
1,4-Difluorobenzene	100 ppb	106 ppb
Chlorobenzene-d5	100 ppb	107 ppb
4-Bromofluorobenzene	100 ppb	107 ppb
Nitrogen	Balance	Balance

248058
 ID: ATTO15GIS_00006
 Exp. 11/15/15 Pimp WFO Open 1301/10
 Instrument G Internal Sta

SOURCE REFERENCE # 260788

ANALYST: Matthew Booth
Matthew Booth

DATE: 12/11/2008

METHODOLOGY SUMMARY

Laboratory: TestAmerica Laboratories

Project No: NA

Location: South Burlington, Vermont

SDG No: 200-20258

VOA

Volatile Organics - NJDEP-LLTO-15

CASE NARRATIVE

Client: URS Corporation

Project: EISB Pompton Lakes

Report Number: 200-20258-1

The samples in this sample set were analyzed by the EPA Compendium Method TO-15 for specific volatile organic constituents. Unless otherwise noted below, the analytical work followed the requirements outlined in the New Jersey DEP guidelines.

The practice of the laboratory is to analyze one canister from each batch of canisters that have been cleaned for re-use in order to certify the batch. The canisters that were used for this sampling event were from multiple batches. The certifying analyses were free of target analytes down to the concentration levels that are contractually required (nominally 0.2 PPBV). In order to provide for the lower level of detection required for canister certification, the laboratory analyzed a 500 milliliter volume. The laboratory's established practice for the analysis of field samples is based on the analysis of a 200 milliliter sample volume. Documentation of the analytical work supporting canister certification is included in the "Clean Can Certification" section of this submittal. Documentation of canister vacuum as delivered to, and received from, the field is included in the "Clean Can Certification" section of this submittal.

Manual integration was employed in deriving certain of the analytical results. The values that have been derived from manual integration are qualified on the quantitation reports, and extracted ion current profiles are included in the data package.

The following details the column type and trap design that were used in the performance of the analytical work for the sample in this sample set:

Chromatography Column - Restek RTX-624
Length - 60 meters
Inner Diameter - 0.32 millimeters
Film thickness - 1.8 micrometers
Trap Design - Entech Model 7100A (glass bead and Tenax with cryo-focusing)

A summary of the laboratory's current Method Detection Limits (MDLs) has been provided as part of this submittal, immediately following this transmittal letter.

RECEIPT

The samples were received on 12/24/2013; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS

Samples SG-122313-SGP-01 and AA-122313-SGP-01 were analyzed for Volatile Organic Compounds in accordance with NJDEP-LLTO-15. The samples were analyzed on 01/03/2014.

No difficulties were encountered during the VOCs analysis.

All quality control parameters were within the acceptance limits.

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Instrument ID: CHW.i

Analysis Batch Number: 65930

Lab Sample ID: IC 200-65930/4

Client Sample ID:

Date Analyzed: 12/12/13 18:12

Lab File ID: wak004.d

GC Column: RTX-624

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichlorotetrafluoroethane	4.85	Baseline Event	desjardin sb	12/13/13 07:38
Chloromethane	5.06	Baseline Event	desjardin sb	12/13/13 07:38
Vinyl chloride	5.36	Baseline Event	desjardin sb	12/13/13 07:38
1,3-Butadiene	5.47	Baseline Event	desjardin sb	12/13/13 07:38
Bromomethane	6.33	Baseline Event	desjardin sb	12/13/13 07:38
Chloroethane	6.62	Baseline Event	desjardin sb	12/13/13 07:38
Vinyl bromide	7.10	Baseline Event	desjardin sb	12/13/13 07:38
Trichlorofluoromethane	7.20	Baseline Event	desjardin sb	12/13/13 07:38
1,1,2-Trichloro-1,2,2-trifluoroethane	8.47	Baseline Event	desjardin sb	12/13/13 07:38
1,1-Dichloroethene	8.56	Baseline Event	desjardin sb	12/13/13 07:38
Isopropanol	9.10	Baseline Event	desjardin sb	12/13/13 07:38
Allyl chloride	9.43	Baseline Event	desjardin sb	12/13/13 07:38
Methylene Chloride	9.77	Baseline Event	desjardin sb	12/13/13 07:38
tert-Butyl alcohol	9.95	Baseline Event	desjardin sb	12/13/13 07:38
Methyl tert-butyl ether	10.20	Baseline Event	desjardin sb	12/13/13 07:38
1,2-Dichloroethene, trans-	10.24	Baseline Event	desjardin sb	12/13/13 07:38
n-Hexane	10.67	Baseline Event	desjardin sb	12/13/13 07:38

TO15LL/NJ

11/6/14
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AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Instrument ID: CHW.i

Analysis Batch Number: 65930

Lab Sample ID: IC 200-65930/4

Client Sample ID:

Date Analyzed: 12/12/13 18:12

Lab File ID: wak004.d

GC Column: RTX-624

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane	11.20	Baseline Event	desjardin sb	12/13/13 07:38
1,2-Dichloroethene, cis-	12.40	Baseline Event	desjardin sb	12/13/13 07:38
Methyl Ethyl Ketone	12.42	Baseline Event	desjardin sb	12/13/13 07:38
Tetrahydrofuran	12.91	Baseline Event	desjardin sb	12/13/13 07:38
Chloroform	12.96	Baseline Event	desjardin sb	12/13/13 07:38
Cyclohexane	13.29	Baseline Event	desjardin sb	12/13/13 07:38
Carbon tetrachloride	13.54	Baseline Event	desjardin sb	12/13/13 07:38
2,2,4-Trimethylpentane	13.94	Baseline Event	desjardin sb	12/13/13 07:38
Benzene	14.00	Baseline Event	desjardin sb	12/13/13 07:38
Trichloroethene	15.22	Baseline Event	desjardin sb	12/13/13 07:38
Methyl methacrylate	15.83	Baseline Event	desjardin sb	12/13/13 07:38
1,4-Dioxane	15.95	Baseline Event	desjardin sb	12/13/13 07:38
Bromodichloromethane	16.24	Baseline Event	desjardin sb	12/13/13 07:38
1,3-Dichloropropene, cis-	17.10	Baseline Event	desjardin sb	12/13/13 07:38
Methyl isobutyl ketone	17.35	Baseline Event	desjardin sb	12/13/13 07:38
1,3-Dichloropropene, trans-	18.21	Baseline Event	desjardin sb	12/13/13 07:38
1,1,2-Trichloroethane	18.58	Baseline Event	desjardin sb	12/13/13 07:38

TO15LL/NJ

11/14/14
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AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Instrument ID: CHW.i

Analysis Batch Number: 65930

Lab Sample ID: IC 200-65930/4

Client Sample ID:

Date Analyzed: 12/12/13 18:12

Lab File ID: wak004.d

GC Column: RTX-624

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST
Dibromochloromethane	19.32	Baseline Event	desjardin sb
1,2-Dibromoethane	19.60	Baseline Event	desjardin sb
Chlorobenzene	20.52	Baseline Event	desjardin sb
Ethylbenzene	20.63	Analyte misidentified by the data system	desjardin sb
o-Xylene	21.56	Baseline Event	desjardin sb
Bromoform	21.97	Baseline Event	desjardin sb
4-Ethyltoluene	22.93	Analyte misidentified by the data system	desjardin sb
1,4-Dichlorobenzene	24.23	Baseline Event	desjardin sb
1,2,4-Trichlorobenzene	27.74	Baseline Event	desjardin sb
Hexachlorobutadiene	27.94	Baseline Event	desjardin sb

10/14
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AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Instrument ID: CHW.i

Analysis Batch Number: 65930

Lab Sample ID: IC 200-65930/5

Client Sample ID:

Date Analyzed: 12/12/13 19:03

Lab File ID: wak005.d

GC Column: RTX-624

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	5.36	Baseline Event	desjardin sb	12/13/13 07:30
Chloroethane	6.61	Baseline Event	desjardin sb	12/13/13 07:30
Trichlorofluoromethane	7.21	Baseline Event	desjardin sb	12/13/13 07:30
1,1,2-Trichloro-1,2,2-trifluoroethane	8.47	Baseline Event	desjardin sb	12/13/13 07:30
1,1-Dichloroethene	8.53	Baseline Event	desjardin sb	12/13/13 07:30
Isopropanol	9.09	Baseline Event	desjardin sb	12/13/13 07:30
tert-Butyl alcohol	9.94	Baseline Event	desjardin sb	12/13/13 07:30
Methyl tert-butyl ether	10.18	Baseline Event	desjardin sb	12/13/13 07:30
1,2-Dichloroethene, trans-	10.25	Baseline Event	desjardin sb	12/13/13 07:30
n-Hexane	10.66	Baseline Event	desjardin sb	12/13/13 07:30
1,1-Dichloroethane	11.22	Baseline Event	desjardin sb	12/13/13 07:30
1,2-Dichloroethene, cis-	12.38	Baseline Event	desjardin sb	12/13/13 07:30
Methyl Ethyl Ketone	12.42	Baseline Event	desjardin sb	12/13/13 07:30
Tetrahydrofuran	12.88	Baseline Event	desjardin sb	12/13/13 07:30
Carbon tetrachloride	13.55	Baseline Event	desjardin sb	12/13/13 07:30
2,2,4-Trimethylpentane	13.95	Baseline Event	desjardin sb	12/13/13 07:30
1,2-Dichloropropane	15.73	Baseline Event	desjardin sb	12/13/13 07:30

1/6/14
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AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Instrument ID: CHW.i

Analysis Batch Number: 65930

Lab Sample ID: IC 200-65930/5

Client Sample ID:

Date Analyzed: 12/12/13 19:03

Lab File ID: wak005.d

GC Column: RTX-624

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromodichloromethane	16.23	Baseline Event	desjardin sb	12/13/13 07:30
1,3-Dichloropropene, cis-	17.11	Baseline Event	desjardin sb	12/13/13 07:30
Chlorobenzene	20.50	Baseline Event	desjardin sb	12/13/13 07:30
o-Xylene	21.55	Baseline Event	desjardin sb	12/13/13 07:30
Hexachlorobutadiene	27.95	Baseline Event	lyonsb	12/18/13 15:09

Lab Sample ID: IC 200-65930/6 Client Sample ID:

Date Analyzed: 12/12/13 19:52

Lab File ID: wak006.d

GC Column: RTX-624

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloropropane	15.75	Baseline Event	lyonsb	12/18/13 15:06
1,2,4-Trichlorobenzene	27.74	Baseline Event	lyonsb	12/18/13 15:06
Hexachlorobutadiene	27.94	Baseline Event	lyonsb	12/18/13 15:06

1/6/14
BL

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20258-1

SDG No.: 200-20258

Instrument ID: CHW.i

Analysis Batch Number: 66781

Lab Sample ID: LCS 200-66781/4

Client Sample ID:

Date Analyzed: 01/03/14 14:30

Lab File ID: wako04.d

GC Column: RTX-624

ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION	
		REASON	ANALYST
Vinyl chloride	5.34	Baseline Event	lyonsb
1,1-Dichloroethene	8.52	Baseline Event	lyonsb
1,1-Dichloroethane	11.20	Baseline Event	lyonsb
1,2-Dichloroethene, cis-	12.38	Baseline Event	lyonsb
1,1,1-Trichloroethane	13.28	Baseline Event	lyonsb
Carbon tetrachloride	13.54	Baseline Event	lyonsb

1/6/14
AL

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20258-1

SDG No.: 200-20258

Instrument ID: CHW.i Analysis Batch Number: 65930

Lab Sample ID: IC 200-65930/4 Client Sample ID: _____

Date Analyzed: 12/12/13 18:12 Lab File ID: wak004.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichlorotetrafluoroethane	4.85	Baseline Event	desjardin sb	12/13/13 07:38
Chloromethane	5.06	Baseline Event	desjardin sb	12/13/13 07:38
Vinyl chloride	5.36	Baseline Event	desjardin sb	12/13/13 07:38
1,3-Butadiene	5.47	Baseline Event	desjardin sb	12/13/13 07:38
Bromomethane	6.33	Baseline Event	desjardin sb	12/13/13 07:38
Chloroethane	6.62	Baseline Event	desjardin sb	12/13/13 07:38
Vinyl bromide	7.10	Baseline Event	desjardin sb	12/13/13 07:38
Trichlorofluoromethane	7.20	Baseline Event	desjardin sb	12/13/13 07:38
1,1,2-Trichloro-1,2,2-trifluoroethane	8.47	Baseline Event	desjardin sb	12/13/13 07:38
1,1-Dichloroethene	8.56	Baseline Event	desjardin sb	12/13/13 07:38
Isopropanol	9.10	Baseline Event	desjardin sb	12/13/13 07:38
Allyl chloride	9.43	Baseline Event	desjardin sb	12/13/13 07:38
Methylene Chloride	9.77	Baseline Event	desjardin sb	12/13/13 07:38
tert-Butyl alcohol	9.95	Baseline Event	desjardin sb	12/13/13 07:38
Methyl tert-butyl ether	10.20	Baseline Event	desjardin sb	12/13/13 07:38
1,2-Dichloroethene, trans-	10.24	Baseline Event	desjardin sb	12/13/13 07:38
n-Hexane	10.67	Baseline Event	desjardin sb	12/13/13 07:38

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20258-1

SDG No.: 200-20258

Instrument ID: CHW.i Analysis Batch Number: 65930

Lab Sample ID: IC 200-65930/4 Client Sample ID: _____

Date Analyzed: 12/12/13 18:12 Lab File ID: wak004.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane	11.20	Baseline Event	desjardin sb	12/13/13 07:38
1,2-Dichloroethene, cis-	12.40	Baseline Event	desjardin sb	12/13/13 07:38
Methyl Ethyl Ketone	12.42	Baseline Event	desjardin sb	12/13/13 07:38
Tetrahydrofuran	12.91	Baseline Event	desjardin sb	12/13/13 07:38
Chloroform	12.96	Baseline Event	desjardin sb	12/13/13 07:38
Cyclohexane	13.29	Baseline Event	desjardin sb	12/13/13 07:38
Carbon tetrachloride	13.54	Baseline Event	desjardin sb	12/13/13 07:38
2,2,4-Trimethylpentane	13.94	Baseline Event	desjardin sb	12/13/13 07:38
Benzene	14.00	Baseline Event	desjardin sb	12/13/13 07:38
Trichloroethene	15.22	Baseline Event	desjardin sb	12/13/13 07:38
Methyl methacrylate	15.83	Baseline Event	desjardin sb	12/13/13 07:38
1,4-Dioxane	15.95	Baseline Event	desjardin sb	12/13/13 07:38
Bromodichloromethane	16.24	Baseline Event	desjardin sb	12/13/13 07:38
1,3-Dichloropropene, cis-	17.10	Baseline Event	desjardin sb	12/13/13 07:38
Methyl isobutyl ketone	17.35	Baseline Event	desjardin sb	12/13/13 07:38
1,3-Dichloropropene, trans-	18.21	Baseline Event	desjardin sb	12/13/13 07:38
1,1,2-Trichloroethane	18.58	Baseline Event	desjardin sb	12/13/13 07:38

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20258-1SDG No.: 200-20258Instrument ID: CHW.i Analysis Batch Number: 65930Lab Sample ID: IC 200-65930/4 Client Sample ID: _____Date Analyzed: 12/12/13 18:12 Lab File ID: wak004.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibromochloromethane	19.32	Baseline Event	desjardin sb	12/13/13 07:38
1,2-Dibromoethane	19.60	Baseline Event	desjardin sb	12/13/13 07:38
Chlorobenzene	20.52	Baseline Event	desjardin sb	12/13/13 07:38
Ethylbenzene	20.63	Analyte misidentified by the data system	desjardin sb	12/13/13 07:38
o-Xylene	21.56	Baseline Event	desjardin sb	12/13/13 07:38
Bromoform	21.97	Baseline Event	desjardin sb	12/13/13 07:38
4-Ethyltoluene	22.93	Analyte misidentified by the data system	desjardin sb	12/13/13 07:38
1,4-Dichlorobenzene	24.23	Baseline Event	desjardin sb	12/13/13 07:38
1,2,4-Trichlorobenzene	27.74	Baseline Event	desjardin sb	12/13/13 07:38
Hexachlorobutadiene	27.94	Baseline Event	desjardin sb	12/13/13 07:38

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20258-1

SDG No.: 200-20258

Instrument ID: CHW.i Analysis Batch Number: 65930

Lab Sample ID: IC 200-65930/5 Client Sample ID: _____

Date Analyzed: 12/12/13 19:03 Lab File ID: wak005.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	5.36	Baseline Event	desjardin sb	12/13/13 07:30
Chloroethane	6.61	Baseline Event	desjardin sb	12/13/13 07:30
Trichlorofluoromethane	7.21	Baseline Event	desjardin sb	12/13/13 07:30
1,1,2-Trichloro-1,2,2-trifluoroethane	8.47	Baseline Event	desjardin sb	12/13/13 07:30
1,1-Dichloroethene	8.53	Baseline Event	desjardin sb	12/13/13 07:30
Isopropanol	9.09	Baseline Event	desjardin sb	12/13/13 07:30
tert-Butyl alcohol	9.94	Baseline Event	desjardin sb	12/13/13 07:30
Methyl tert-butyl ether	10.18	Baseline Event	desjardin sb	12/13/13 07:30
1,2-Dichloroethene, trans-	10.25	Baseline Event	desjardin sb	12/13/13 07:30
n-Hexane	10.66	Baseline Event	desjardin sb	12/13/13 07:30
1,1-Dichloroethane	11.22	Baseline Event	desjardin sb	12/13/13 07:30
1,2-Dichloroethene, cis-	12.38	Baseline Event	desjardin sb	12/13/13 07:30
Methyl Ethyl Ketone	12.42	Baseline Event	desjardin sb	12/13/13 07:30
Tetrahydrofuran	12.88	Baseline Event	desjardin sb	12/13/13 07:30
Carbon tetrachloride	13.55	Baseline Event	desjardin sb	12/13/13 07:30
2,2,4-Trimethylpentane	13.95	Baseline Event	desjardin sb	12/13/13 07:30
1,2-Dichloropropane	15.73	Baseline Event	desjardin sb	12/13/13 07:30

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20258-1

SDG No.: 200-20258

Instrument ID: CHW.i Analysis Batch Number: 65930

Lab Sample ID: IC 200-65930/5 Client Sample ID: _____

Date Analyzed: 12/12/13 19:03 Lab File ID: wak005.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromodichloromethane	16.23	Baseline Event	desjardin sb	12/13/13 07:30
1,3-Dichloropropene, cis-	17.11	Baseline Event	desjardin sb	12/13/13 07:30
Chlorobenzene	20.50	Baseline Event	desjardin sb	12/13/13 07:30
o-Xylene	21.55	Baseline Event	desjardin sb	12/13/13 07:30
Hexachlorobutadiene	27.95	Baseline Event	lyonsb	12/18/13 15:09

Lab Sample ID: IC 200-65930/6 Client Sample ID: _____

Date Analyzed: 12/12/13 19:52 Lab File ID: wak006.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloropropane	15.75	Baseline Event	lyonsb	12/18/13 15:06
1,2,4-Trichlorobenzene	27.74	Baseline Event	lyonsb	12/18/13 15:06
Hexachlorobutadiene	27.94	Baseline Event	lyonsb	12/18/13 15:06

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20258-1

SDG No.: 200-20258

Instrument ID: CHW.i Analysis Batch Number: 66781

Lab Sample ID: LCS 200-66781/4 Client Sample ID: _____

Date Analyzed: 01/03/14 14:30 Lab File ID: wako04.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	5.34	Baseline Event	lyonsb	01/03/14 15:18
1,1-Dichloroethene	8.52	Baseline Event	lyonsb	01/03/14 15:18
1,1-Dichloroethane	11.20	Baseline Event	lyonsb	01/03/14 15:18
1,2-Dichloroethene, cis-	12.38	Baseline Event	lyonsb	01/03/14 15:18
1,1,1-Trichloroethane	13.28	Baseline Event	lyonsb	01/03/14 15:18
Carbon tetrachloride	13.54	Baseline Event	lyonsb	01/03/14 15:18

Project Name: NA
 Field ID Number: SG-122313-SGP-01
 Laboratory ID Number: 200-20258-1

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Sampling Date: 12/23/2013 10:43
 Analysis Date: 01/03/2014 20:53

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	2.0	U	5			
1,1-Dichloroethene	75-35-4	96.94	2.0	U	8			
1,2-Dichloroethene, trans-	156-60-5	96.94	2.0	U	8			
1,1-Dichloroethane	75-34-3	98.96	2.0	U	8			
1,2-Dichloroethene, cis-	156-59-2	96.94	2.0	U	8			
1,1,1-Trichloroethane	71-55-6	133.41	2.0	U	11			
Carbon tetrachloride	56-23-5	153.81	2.0	U	13			
1,2-Dichloroethane	107-06-2	98.96	2.0	U	8			
Trichloroethene	79-01-6	131.39	5.7		30			
Tetrachloroethene	127-18-4	165.83	61		410			

Project Name: NA
 Field ID Number: AA-122313-SGP-01
 Laboratory ID Number: 200-20258-2

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Sampling Date: 12/23/2013 10:43
 Analysis Date: 01/03/2014 21:41

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	2.0	U	5			
1,1-Dichloroethene	75-35-4	96.94	2.0	U	8			
1,2-Dichloroethene, trans-	156-60-5	96.94	2.0	U	8			
1,1-Dichloroethane	75-34-3	98.96	2.0	U	8			
1,2-Dichloroethene, cis-	156-59-2	96.94	2.0	U	8			
1,1,1-Trichloroethane	71-55-6	133.41	2.0	U	11			
Carbon tetrachloride	56-23-5	153.81	2.0	U	13			
1,2-Dichloroethane	107-06-2	98.96	2.0	U	8			
Trichloroethene	79-01-6	131.39	2.0	U	11			
Tetrachloroethene	127-18-4	165.83	2.0	U	14			

Project Name: NA
 Field ID Number:
 Laboratory ID Number: MB 200-66781/3

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Analysis Date: 01/03/2014 13:40

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	0.20	U	0.5			
1,1-Dichloroethene	75-35-4	96.94	0.20	U	0.8			
1,2-Dichloroethene, trans-	156-60-5	96.94	0.20	U	0.8			
1,1-Dichloroethane	75-34-3	98.96	0.20	U	0.8			
1,2-Dichloroethene, cis-	156-59-2	96.94	0.20	U	0.8			
1,1,1-Trichloroethane	71-55-6	133.41	0.20	U	1			
Carbon tetrachloride	56-23-5	153.81	0.20	U	1			
1,2-Dichloroethane	107-06-2	98.96	0.20	U	0.8			
Trichloroethene	79-01-6	131.39	0.20	U	1			
Tetrachloroethene	127-18-4	165.83	0.20	U	1			

DATA REPORTING QUALIFIERS

Client: URS Corporation

Job Number: 200-20258-1

Sdg Number: 200-20258

Lab Section	Qualifier	Description
Air - GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD:	NJDEPLL TO15	MATRIX:	AIR	QA Review:	Kirstin Daigle		
PREP METHOD:	NA	Instrument(s):	B, C, G	Date Approved:	5/7/2012		
CLEANUP METHOD(s):	NA	DL	DL	LOQ	LOD/DL	LOQ/LOD	
ANALYTE	CAS #	ppbv	Source ²	ppbv	REF	Ratio	
1,1,1-Trichloroethane	71-55-6	0.020	40CFR	0.080	LOD3	4.0	2.5
1,1,2,2-Tetrachloroethane	79-34-5	0.011	40CFR	0.040	LOD2	3.7	5.0
1,1,2-Trichloroethane	79-00-5	0.016	40CFR	0.040	LOD2	2.6	5.0
1,1-Dichloroethane	75-34-3	0.023	40CFR	0.080	LOD3	3.5	2.5
1,1-Dichloroethene	75-35-4	0.086	40CFR	0.20	LOD4	2.3	1.0
1,2,4-Trichlorobenzene	120-82-1	0.030	40CFR	0.080	LOD3	2.7	6.3
1,2,4-Trimethylbenzene	95-63-6	0.021	40CFR	0.080	LOD3	3.9	2.5
1,2-Dibromoethane	106-93-4	0.014	40CFR	0.040	LOD2	2.8	5.0
1,2-Dichlorobenzene	95-50-1	0.026	40CFR	0.080	LOD3	3.1	2.5
1,2-Dichloroethane	107-06-2	0.018	40CFR	0.040	LOD2	2.2	5.0
1,2-Dichloropropane	78-87-5	0.023	40CFR	0.080	LOD3	3.4	2.5
1,2-Dichlorotetrafluoroethane	76-14-2	0.020	40CFR	0.080	LOD3	4.0	2.5
1,3,5-Trimethylbenzene	108-67-8	0.019	40CFR	0.040	LOD2	2.1	5.0
1,3-Butadiene	106-99-0	0.025	40CFR	0.080	LOD3	3.3	2.5
1,3-Dichlorobenzene	541-73-1	0.019	40CFR	0.040	LOD2	2.1	5.0
1,4-Dichlorobenzene	106-46-7	0.018	40CFR	0.040	LOD2	2.2	5.0
1,4-Dioxane	123-91-1	0.070	40CFR	0.20	LOD4	2.8	25.0
2,2,4-Trimethylpentane	540-84-1	0.015	40CFR	0.040	LOD2	2.8	5.0
2-Chlorotoluene	95-49-8	0.013	40CFR	0.040	LOD2	3.1	5.0
3-Chloropropene	107-05-1	0.047	40CFR	0.080	LOD3	1.7	2.5
4-Ethyltoluene	622-96-8	0.015	40CFR	0.040	LOD2	2.6	5.0
Acetone	67-64-1	0.40	LTB	0.50	LOD5	1.3	10.0
Benzene	71-43-2	0.018	40CFR	0.040	LOD2	2.2	5.0
Bromodichloromethane	75-27-4	0.012	40CFR	0.040	LOD2	3.4	5.0
Bromoethene(Vinyl Bromide)	593-60-2	0.019	40CFR	0.040	LOD2	2.1	5.0
Bromoform	75-25-2	0.0072	40CFR	0.028	LOD1	3.9	7.1
Bromomethane	74-83-9	0.027	40CFR	0.080	LOD3	3.0	2.5
Carbon disulfide	75-15-0	0.020	40CFR	0.080	LOD3	3.9	6.3
Carbon tetrachloride	56-23-5	0.013	40CFR	0.040	LOD2	3.0	1.0
Chlorobenzene	108-90-7	0.013	40CFR	0.040	LOD2	3.0	5.0
Chloroethane	75-00-3	0.033	40CFR	0.080	LOD3	2.4	6.3
Chloroform	67-66-3	0.024	40CFR	0.080	LOD3	3.4	2.5
Chloromethane	74-87-3	0.034	LTB	0.080	LOD3	2.4	6.3
cis-1,2-Dichloroethene	156-59-2	0.084	40CFR	0.20	LOD4	2.4	1.0
cis-1,3-Dichloropropene	10061-01-5	0.013	40CFR	0.040	LOD2	3.2	5.0
Cyclohexane	110-82-7	0.019	40CFR	0.040	LOD2	2.1	5.0
Dibromochloromethane	124-48-1	0.011	40CFR	0.040	LOD2	3.6	5.0

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD:	NJDEPLL TO15	MATRIX:	AIR	QA Review:	Kirstin Daigle			
PREP METHOD:	NA	Instrument(s):	B, C, G	Date Approved:	5/7/2012			
CLEANUP METHOD(s):	NA			TALS Entry:	5/7/2012			
ANALYTE	CAS #	DL ppbv	DL Source ²	LOD ppbv	LOD REF	LOQ ppbv	LOD/DL Ratio	LOQ/LOD Ratio
Dichlorodifluoromethane	75-71-8	0.020	40CFR	0.080	LOD3	0.50	3.9	6.3
Ethylbenzene	100-41-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Freon TF	76-13-1	0.020	40CFR	0.080	LOD3	0.20	3.9	2.5
Hexachlorobutadiene	87-68-3	0.029	40CFR	0.080	LOD3	0.20	2.8	2.5
Isopropyl alcohol	67-63-0	0.076	40CFR	0.20	LOD4	5.0	2.6	25.0
m,p-Xylene	179601-23-1	0.022	40CFR	0.040	LOD2	0.50	1.8	12.5
Methyl Ethyl Ketone	78-93-3	0.025	40CFR	0.080	LOD3	0.50	3.2	6.3
Methyl isobutyl ketone	108-10-1	0.034	40CFR	0.080	LOD3	0.50	2.4	6.3
Methyl methacrylate	80-62-6	0.016	40CFR	0.040	LOD2	0.50	2.5	12.5
Methyl tert-butyl ether	1634-04-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Methylene Chloride	75-09-2	0.023	40CFR	0.080	LOD3	0.50	3.5	6.3
n-Heptane	142-82-5	0.017	40CFR	0.040	LOD2	0.20	2.4	5.0
n-Hexane	110-54-3	0.020	40CFR	0.080	LOD3	0.20	3.9	2.5
Styrene	100-42-5	0.011	40CFR	0.040	LOD2	0.20	3.6	5.0
tert-Butyl alcohol	75-65-0	0.041	40CFR	0.080	LOD3	5.0	2.0	62.4
Tetrachloroethene	127-18-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Tetrahydrofuran	109-99-9	0.029	40CFR	0.080	LOD3	5.0	2.7	62.4
Toluene	108-88-3	0.014	40CFR	0.040	LOD2	0.20	2.8	5.0
trans-1,2-Dichloroethene	156-60-5	0.023	40CFR	0.080	LOD3	0.20	3.5	2.5
trans-1,3-Dichloropropene	10061-02-6	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Trichloroethene	79-01-6	0.0092	40CFR	0.028	LOD1	0.20	3.1	7.1
Trichlorofluoromethane	75-69-4	0.021	40CFR	0.080	LOD3	0.20	3.9	2.5
Vinyl chloride	75-01-4	0.0091	40CFR	0.028	LOD1	0.20	3.1	7.1
Xylene, o-	95-47-6	0.016	40CFR	0.040	LOD2	0.20	2.4	5.0

¹: Summary Analyte. The DL, LOD and LOQ are set to the value equal to the lowest DL, LOD and LOQ of the component analytes.

²: 40CFR = DL is taken from 40CFR MDL Study. LTB = DL calculated from Long Term Evaluation of Method Blanks

Detection Limit (DL) Study Report

TEST METHOD:		NJDELL TO15		Prep Date:		01/16/12								
PREP METHOD:		NA		Initial Amount:		200 mL								
CLEANUP METHOD(S):		NA		Final Amount:		200 mL								
MATRIX:														
AIR														
ANALYTE	CAS #	Spike ppbv	Date Analyzed:		01/16/12		01/16/12							
			Instrument ID:	C	C	C	C	C						
Column Type:	REP 1	REP 2	REP 3	REP 4	REP 5	REP 6	REP 7	Spike/DL Ratio						
									RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624
1,1,1-Trichloroethane	71-55-6	0.050	0.075249	0.059531	0.057194	0.070274	0.064756	0.060375	0.065753	0.065	130%	0.00639	0.020	2.5
1,1,2,2-Tetrachloroethane	79-34-5	0.10	0.087109	0.090425	0.092948	0.093354	0.086774	0.094022	0.086072	0.090	90%	0.00343	0.011	9.3
1,1,2-Trichloroethane	79-00-5	0.10	0.104969	0.10243	0.104588	0.109256	0.09317	0.105537	0.102286	0.103	103%	0.00499	0.016	6.4
1,1-Dichloroethane	75-34-3	0.10	0.112491	0.105448	0.118808	0.114103	0.097398	0.116335	0.108718	0.110	111%	0.00731	0.023	4.3
1,1-Dichloroethene	75-35-4	0.10	0.157107	0.144767	0.134415	0.150996	0.087747	0.146304	0.097518	0.131	132%	0.02741	0.086	1.2
1,2,3-Trichlorobenzene	87-61-6	0.10	0.118221	0.083691	0.078374	0.088207	0.100094	0.094233	0.087726	0.093	93%	0.01316	0.041	2.4
1,2,3-Trichloropropane	96-18-4	0.050	0.043189	0.054171	0.05359	0.062113	0.047685	0.050967	0.066475	0.054	108%	0.00804	0.025	2.0
1,2,4-Trichlorobenzene	120-82-1	0.10	0.102103	0.075027	0.075236	0.084032	0.085636	0.091558	0.084827	0.085	86%	0.00940	0.030	3.4
1,2,4-Trimethylbenzene	95-63-6	0.050	0.050023	0.033908	0.03151	0.033963	0.040619	0.032018	0.037257	0.037	74%	0.00654	0.021	2.4
1,2-Dibromoethane	106-93-4	0.10	0.095711	0.096855	0.100248	0.101879	0.090523	0.0994	0.090798	0.096	97%	0.00448	0.014	7.1
1,2-Dichlorobenzene	95-50-1	0.050	0.06072	0.03995	0.036869	0.040517	0.044377	0.037898	0.042037	0.043	87%	0.00812	0.026	2.0
1,2-Dichloroethane	107-06-2	0.10	0.111919	0.110578	0.114421	0.116788	0.099985	0.110939	0.104899	0.110	110%	0.00573	0.018	5.5
1,2-Dichloropropane	78-87-5	0.10	0.105945	0.104269	0.112907	0.110709	0.101865	0.12332	0.104012	0.109	109%	0.00742	0.023	4.3
1,2-Dichlorotetrafluoroethane	76-14-2	0.050	0.080579	0.063207	0.066626	0.075472	0.065183	0.067673	0.066138	0.069	139%	0.00631	0.020	2.5
1,3,5-Trimethylbenzene	108-67-8	0.10	0.069562	0.079845	0.081841	0.081714	0.074632	0.08022	0.066663	0.076	77%	0.00618	0.019	5.1
1,3-Butadiene	106-99-0	0.10	0.126561	0.120871	0.122955	0.123526	0.104047	0.126599	0.11822	0.120	121%	0.00780	0.025	4.1
1,3-Dichlorobenzene	541-73-1	0.050	0.058235	0.043279	0.039968	0.044381	0.046402	0.041871	0.042875	0.045	91%	0.00605	0.019	2.6
1,4-Dichlorobenzene	106-46-7	0.050	0.057091	0.041894	0.040173	0.044449	0.044549	0.039705	0.044443	0.045	89%	0.00587	0.018	2.7
1,4-Dioxane	123-91-1	0.50	0.529858	0.47849	0.503724	0.478301	0.521885	0.531848	0.504607	0.507	102%	0.02241	0.070	7.1
2,2,4-Trimethylpentane	540-84-1	0.10	0.104702	0.102839	0.109157	0.109334	0.096775	0.108289	0.102005	0.105	105%	0.00461	0.015	6.9
2-Chlorotoluene	95-49-8	0.050	0.053728	0.043926	0.042797	0.049905	0.049118	0.046196	0.043168	0.047	94%	0.00410	0.013	3.9
3-Chloropropene	107-05-1	0.050	0.091803	0.052523	0.046706	0.066698	0.069833	0.063371	0.075427	0.067	134%	0.01488	0.047	1.1
4-Ethyltoluene	622-96-8	0.050	0.04711	0.035063	0.034216	0.035619	0.03923	0.032673	0.036883	0.037	75%	0.00481	0.015	3.3
4-Isopropyltoluene	99-87-6	0.050	0.043822	0.028757	0.026447	0.028456	0.036252	0.025823	0.032638	0.032	64%	0.00645	0.020	2.5
Acetone	67-64-1	0.10	0.248742	0.202312	0.213844	0.185725	0.195837	0.212676	0.19027	0.207	207%	0.02122	0.067	1.5
Acetonitrile	75-05-8	0.50	0.63059	0.609577	0.570606	0.601219	0.641953	0.581543	0.586531	0.603	121%	0.02616	0.082	6.1
Acrolein	107-02-8	0.50	0.574081	0.576575	0.601417	0.548519	0.542733	0.562354	0.543968	0.564	113%	0.02143	0.067	7.4
Acrylonitrile	107-13-1	0.050	0.047424	0.036123	0.032256	0.049038	0.030598	0.041157	0.044995	0.040	81%	0.00737	0.023	2.2
Alpha Methyl Styrene	98-83-9	0.050	0.040369	0.02506	0.022802	0.029683	0.030782	0.025157	0.028454	0.029	58%	0.00580	0.018	2.7
Benzene	71-43-2	0.10	0.115563	0.112881	0.124301	0.108905	0.112608	0.12321	0.118638	0.117	117%	0.00573	0.018	5.5
Benzyl chloride	100-44-7	0.050	0.051597	0.033139	0.03522	0.035718	0.037529	0.029773	0.036131	0.037	74%	0.00690	0.022	2.3
Bromodichloromethane	75-27-4	0.10	0.09798	0.095445	0.101276	0.103033	0.09221	0.100674	0.100042	0.099	99%	0.00375	0.012	8.5
Bromoethene(Vinyl Bromide)	593-60-2	0.10	0.114507	0.103016	0.116834	0.111149	0.099687	0.108882	0.111745	0.109	110%	0.00613	0.019	5.2

Detection Limit (DL) Study Report

TEST METHOD:		NJDELL TO15		Prep Date:		01/16/12						
PREP METHOD:		NA		Initial Amount:		200 mL						
CLEANUP METHOD(S):		NA		Final Amount:		200 mL						
MATRIX:												
AIR												
ANALYTE	CAS #	Spike ppbv	01/16/12		01/16/12		Mean ppbv	Average %R	STD DEV	DL ppbv	Spike/DL Ratio	
			REP 1 ppbv	REP 2 ppbv	REP 3 ppbv	REP 4 ppbv						REP 5 ppbv
Instrument ID:	Date Analyzed:	C	C	C	C	C	C	C	C	C	C	
Column Type:	Instrument ID:	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	RTX-624	
Bromoform	75-25-2	0.050	0.045891	0.041705	0.040813	0.045382	0.043964	0.039841	0.042451	0.00229	0.0072	6.9
Bromomethane	74-83-9	0.10	0.130761	0.125472	0.136931	0.139073	0.112846	0.128623	0.126832	0.00861	0.027	3.7
Carbon disulfide	75-15-0	0.050	0.075073	0.058149	0.057821	0.069229	0.067015	0.059374	0.062664	0.00651	0.020	2.4
Chlorobenzene	108-90-7	0.10	0.102284	0.103269	0.112214	0.11103	0.102188	0.108552	0.103462	0.00420	0.013	7.6
Chloroethane	75-00-3	0.10	0.122704	0.112536	0.123091	0.135228	0.100856	0.120214	0.120826	0.01056	0.033	3.0
Chloroform	67-66-3	0.10	0.113871	0.109272	0.121736	0.117094	0.099934	0.119677	0.10854	0.00756	0.024	4.2
Chloromethane	74-87-3	0.050	0.127751	0.106998	0.116366	0.118031	0.09826	0.119097	0.109065	0.00964	0.030	1.6
cis-1,2-Dichloroethene	156-59-2	0.10	0.112903	0.087185	0.15046	0.113794	0.081309	0.137783	0.0884	0.02659	0.084	1.2
cis-1,3-Dichloropropene	10061-01-5	0.10	0.106437	0.106466	0.110124	0.109975	0.09883	0.109418	0.104207	0.00404	0.013	7.9
Cumene	98-82-8	0.10	0.085224	0.088124	0.091429	0.08698	0.083612	0.090868	0.081757	0.00360	0.011	8.8
Cyclohexane	110-82-7	0.10	0.102476	0.092597	0.104788	0.109388	0.098017	0.11024	0.103469	0.00619	0.019	5.1
Dibromochloromethane	124-48-1	0.10	0.085564	0.087052	0.09343	0.091867	0.084292	0.085365	0.085664	0.00357	0.011	8.9
Dibromomethane	74-95-3	0.10	0.104595	0.107389	0.109047	0.107532	0.096097	0.107164	0.098533	0.104	0.0502	6.3
Dichlorodifluoromethane	75-71-8	0.10	0.125414	0.126865	0.127053	0.134674	0.122344	0.120975	0.113685	0.00646	0.020	4.9
Ethanol	64-17-5	1.00	0.969299	1.020308	1.070641	1.039724	0.956727	1.006232	0.900894	0.05696	0.179	5.6
Ethyl acetate	141-78-6	0.50	0.429368	0.472311	0.454595	0.456607	0.447219	0.465664	0.495475	0.02075	0.065	7.6
Ethyl ether	60-29-7	0.10	0.093526	0.100116	0.106814	0.099036	0.08939	0.102939	0.094416	0.00598	0.019	5.3
Ethylbenzene	100-41-4	0.10	0.090417	0.092208	0.095145	0.097014	0.083311	0.096034	0.092317	0.00463	0.015	6.9
Freon 22	75-45-6	0.10	0.150983	0.139723	0.141181	0.142633	0.132819	0.13492	0.128858	0.00729	0.023	4.4
Freon TF	76-13-1	0.10	0.107548	0.105615	0.113483	0.116446	0.096401	0.111776	0.108877	0.00651	0.020	4.9
Hexachlorobutadiene	87-68-3	0.10	0.097644	0.071429	0.074537	0.0913	0.087521	0.085486	0.080987	0.00922	0.029	3.4
Isopentane	78-78-4	0.10	0.127579	0.187384	0.169759	0.17624	0.141859	0.159417	0.154617	0.02048	0.064	1.6
Isopropyl alcohol	67-63-0	0.50	0.572061	0.521524	0.50583	0.515674	0.541903	0.502692	0.535203	0.02419	0.076	6.6
m,p-Xylene	179601-23-1	0.20	0.162862	0.171383	0.181162	0.17433	0.166483	0.180529	0.169046	0.00689	0.022	9.2
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.50	0.483758	0.451819	0.477876	0.469687	0.482335	0.470408	0.454572	0.01273	0.040	12.5
Methyl Ethyl Ketone	78-93-3	0.10	0.078894	0.082858	0.089406	0.078321	0.076614	0.08675	0.065473	0.00783	0.025	4.1
Methyl isobutyl ketone	108-10-1	0.50	0.487199	0.487166	0.491268	0.497069	0.489725	0.508268	0.47318	0.01066	0.034	14.9
Methyl methacrylate	80-62-6	0.10	0.062633	0.069693	0.075979	0.077813	0.072156	0.072629	0.068253	0.00506	0.016	6.3
Methyl tert-butyl ether	1634-04-4	0.10	0.096	0.106222	0.105087	0.101422	0.094621	0.101694	0.095566	0.00473	0.015	6.7
Methylene Chloride	75-09-2	0.10	0.186679	0.180651	0.190941	0.19634	0.17427	0.184107	0.182069	0.00719	0.023	4.4
Naphthalene	91-20-3	0.10	0.095391	0.069495	0.067525	0.070833	0.078978	0.094064	0.069779	0.01199	0.038	2.6
n-Butane	106-97-8	0.050	0.09185	0.074788	0.074602	0.085903	0.077214	0.072987	0.081057	0.00694	0.022	2.3
n-Butanol	71-36-3	0.50	0.60719	0.668807	0.573518	0.531713	0.568194	0.634713	0.604817	0.04541	0.143	3.5

Detection Limit (DL) Study Report

TEST METHOD:		NJDELL TO15		Prep Date:		01/16/12								
PREP METHOD:		NA		Initial Amount:		200 mL								
CLEANUP METHOD(S):		NA		Final Amount:		200 mL								
MATRIX:		AIR												
ANALYTE	CAS #	Date Analyzed:	Spike ppbv	01/16/12		01/16/12		Mean ppbv	Average %R	STD DEV	DL ppbv	Spike/DL Ratio		
				C	REP 1 ppbv	C	REP 2 ppbv						C	REP 3 ppbv
Instrument ID:	Column Type:	Instrument ID:	Column Type:	REP 1 ppbv	REP 2 ppbv	REP 3 ppbv	REP 4 ppbv	REP 5 ppbv	REP 6 ppbv	REP 7 ppbv	REP 6 ppbv	REP 7 ppbv	REP 6 ppbv	REP 7 ppbv
n-Butylbenzene	104-51-8		0.050	0.048137	0.028586	0.029114	0.03042	0.035355	0.029657	0.031059	0.026588	0.031059	0.026588	0.031059
n-Decane	124-18-5		0.050	0.036546	0.022044	0.020162	0.023891	0.026808	0.0212	0.026588	0.026588	0.026588	0.026588	0.026588
n-Dodecane	112-40-3		0.50	0.627098	0.480578	0.473868	0.474722	0.571975	0.47566	0.497409	0.497409	0.497409	0.497409	0.497409
n-Heptane	142-82-5		0.10	0.09942	0.10363	0.111768	0.109175	0.097895	0.109455	0.10716	0.10716	0.10716	0.10716	0.10716
n-Hexane	110-54-3		0.050	0.073875	0.05334	0.057888	0.064359	0.063601	0.06049	0.065062	0.065062	0.065062	0.065062	0.065062
n-Nonane	111-84-2		0.050	0.050916	0.041586	0.043278	0.04702	0.043524	0.045371	0.044423	0.044423	0.044423	0.044423	0.044423
n-Octane	111-65-9		0.10	0.102898	0.102016	0.109872	0.10588	0.0989	0.109196	0.108147	0.108147	0.108147	0.108147	0.108147
n-Pentane	109-66-0		0.10	0.113422	0.112879	0.122504	0.124181	0.10199	0.115375	0.119221	0.119221	0.119221	0.119221	0.119221
n-Propylbenzene	103-65-1		0.050	0.045237	0.034802	0.031889	0.037885	0.039789	0.03589	0.036715	0.036715	0.036715	0.036715	0.036715
n-Undecane	1120-21-4		0.50	0.264815	0.245186	0.235354	0.243748	0.260431	0.239573	0.244349	0.244349	0.244349	0.244349	0.244349
Propylene	115-07-1		0.50	0.60298	0.617479	0.605271	0.627917	0.623967	0.691435	0.636873	0.636873	0.636873	0.636873	0.636873
sec-Butylbenzene	135-98-8		0.10	0.073975	0.076789	0.078233	0.081733	0.076792	0.073771	0.066755	0.066755	0.066755	0.066755	0.066755
Styrene	100-42-5		0.050	0.044637	0.038055	0.034198	0.04162	0.03885	0.036069	0.040379	0.040379	0.040379	0.040379	0.040379
tert-Butyl alcohol	75-65-0		0.50	0.508232	0.496266	0.480641	0.489734	0.509943	0.513052	0.514001	0.514001	0.514001	0.514001	0.514001
tert-Butylbenzene	98-06-6		0.050	0.0437	0.035827	0.032872	0.039288	0.040358	0.036458	0.038936	0.038936	0.038936	0.038936	0.038936
Tetrachloroethene	127-18-4		0.10	0.102889	0.103282	0.109897	0.111806	0.098738	0.10689	0.101255	0.101255	0.101255	0.101255	0.101255
Tetrahydrofuran	109-99-9		0.50	0.526214	0.508039	0.517002	0.536047	0.522949	0.511868	0.51802	0.51802	0.51802	0.51802	0.51802
Toluene	108-88-3		0.10	0.101053	0.100661	0.106148	0.108643	0.097266	0.109432	0.104239	0.104239	0.104239	0.104239	0.104239
trans-1,2-Dichloroethene	156-60-5		0.10	0.107583	0.103375	0.113143	0.112858	0.092156	0.108578	0.109256	0.109256	0.109256	0.109256	0.109256
trans-1,3-Dichloropropene	10061-02-6		0.10	0.095167	0.098962	0.106149	0.106491	0.095199	0.102061	0.09792	0.09792	0.09792	0.09792	0.09792
Trichlorofluoromethane	75-69-4		0.050	0.077581	0.059176	0.059963	0.071561	0.065175	0.064871	0.069117	0.069117	0.069117	0.069117	0.069117
Vinyl acetate	108-05-4		0.50	0.494487	0.509174	0.494689	0.500711	0.516169	0.498506	0.498208	0.498208	0.498208	0.498208	0.498208
Xylene, o-	95-47-6		0.10	0.087382	0.088147	0.097469	0.093614	0.086955	0.091865	0.081519	0.081519	0.081519	0.081519	0.081519

Limit of Detection (LOD) Verification Report

TEST METHOD:		NJDEPLLT015		Prep Date:	1/31/2012, 02/06/12		Instrument(s):					
PREP METHOD:		NA		Initial Amount:	200 mL		B			C		
CLEANUP METHOD(s):		NA		Final Amount:	200 mL		RTX-624			RTX-624		
MATRIX:		AIR		LOD Ref:	1							
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
Bromoform	75-25-2	0.0072	0.0072	0.028	3.9	Y	0.0236358	01/31/12	0.0269937	02/06/12	0.0310274	01/31/12
Trichloroethene	79-01-6	0.0092	0.0092	0.028	3.1	Y	0.0369347	01/31/12	0.0357282	02/06/12	0.0370572	01/31/12
Vinyl chloride	75-01-4	0.0091	0.0091	0.028	3.1	Y	0.0382497	01/31/12	0.0271757	02/06/12	0.0427657	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLO15		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
	PREP METHOD:	NA	Initial Amount:	200 mL	B			C			G	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624			RTX-624			RTX-624		
MATRIX:	AIR	LOD Ref:	2									
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
1,1,2,2-tetrachloroethane	79-34-5	0.011	0.040	0.040	3.6	Y	0.0439484	01/30/12	0.0367094	01/30/12	0.0368553	01/31/12
1,1,2-Trichloroethane	79-00-5	0.016	0.040	0.040	2.5	Y	0.04085	01/30/12	0.0383681	01/30/12	0.0375874	01/31/12
1,2-Dibromoethane	106-93-4	0.014	0.040	0.040	2.9	Y	0.0382115	01/30/12	0.0373325	01/30/12	0.0413789	01/31/12
1,2-Dichloroethane	107-06-2	0.018	0.040	0.040	2.2	Y	0.043269	01/30/12	0.044657	01/30/12	0.0427347	01/31/12
1,3,5-Trimethylbenzene	108-67-8	0.019	0.040	0.040	2.1	Y	0.0448217	01/30/12	0.0356625	01/30/12	0.0229489	01/31/12
1,3-Dichlorobenzene	541-73-1	0.019	0.040	0.040	2.1	Y	0.0440867	01/30/12	0.0375736	01/30/12	0.0483551	01/31/12
1,4-Dichlorobenzene	106-46-7	0.018	0.040	0.040	2.2	Y	0.0467479	01/30/12	0.0378337	01/30/12	0.0332018	01/31/12
2,2,4-Trimethylpentane	540-84-1	0.015	0.040	0.040	2.7	Y	0.0458012	01/30/12	0.0432881	01/30/12	0.0413784	01/31/12
2-Chlorotoluene	95-49-8	0.013	0.040	0.040	3.1	Y	0.0477588	01/30/12	0.0398619	01/30/12	0.0273756	01/31/12
4-Ethyltoluene	622-96-8	0.015	0.040	0.040	2.7	Y	0.0413871	01/30/12	0.03224089	01/30/12	0.0183816	01/31/12
Alpha Methyl Styrene	98-83-9	0.018	0.040	0.040	2.2	Y	0.0283359	01/30/12	0.0241925	01/30/12	0.0361873	01/31/12
Benzene	71-43-2	0.018	0.040	0.040	2.2	Y	0.0566347	01/30/12	0.0538394	01/30/12	0.0488064	01/31/12
Bromodichloromethane	75-27-4	0.012	0.040	0.040	3.3	Y	0.0416361	01/30/12	0.0401186	01/30/12	0.0400368	01/31/12
Bromoethene(Vinyl Bromide)	593-60-2	0.019	0.040	0.040	2.1	Y	0.0477646	01/30/12	0.0390748	01/30/12	0.0509984	01/31/12
Carbon tetrachloride	56-23-5	0.019	0.040	0.040	2.1	Y	0.0450564	01/30/12	0.0453807	01/30/12	0.0445167	01/31/12
Chlorobenzene	108-90-7	0.013	0.040	0.040	3.1	Y	0.0509605	01/30/12	0.0454508	01/30/12	0.0435362	01/31/12
cis-1,3-Dichloropropene	10061-01-5	0.013	0.040	0.040	3.1	Y	0.0409175	01/30/12	0.0482381	01/30/12	0.048195	01/31/12
Cumene	98-82-8	0.011	0.040	0.040	3.6	Y	0.0423284	01/30/12	0.0378653	01/30/12	0.0334343	01/31/12
Cyclohexane	110-82-7	0.013	0.040	0.040	3.1	Y	0.0501248	01/30/12	0.0390593	01/30/12	0.0475519	01/31/12
Dibromochloromethane	124-48-1	0.011	0.040	0.040	3.6	Y	0.0355362	01/30/12	0.0354374	01/30/12	0.0358777	01/31/12
Dibromomethane	74-95-3	0.016	0.040	0.040	2.5	Y	0.0458574	01/30/12	0.0384973	01/30/12	0.0533226	01/31/12
Ethyl ether	60-29-7	0.019	0.040	0.040	2.1	Y	0.0360172	01/30/12	0.0208922	01/30/12	0.0468287	01/31/12
Ethylbenzene	100-41-4	0.015	0.040	0.040	2.7	Y	0.0470157	01/30/12	0.0410152	01/30/12	0.031831	01/31/12
m,p-Xylene	179601-23-1	0.022	0.080	0.080	3.7	Y	0.0866301	01/30/12	0.0737886	01/30/12	0.0660686	01/31/12
Methyl methacrylate	80-62-6	0.016	0.040	0.040	2.5	Y	0.0206074	01/30/12	0.0208438	01/30/12	0.0234625	01/31/12
Methyl tert-butyl ether	1634-04-4	0.015	0.040	0.040	2.7	Y	0.0444376	01/30/12	0.0448008	01/30/12	0.0421109	01/31/12
n-Decane	124-18-5	0.010	0.040	0.040	4.0	Y	0.0452386	01/30/12	0.0212837	01/30/12	0.0306513	01/31/12
n-Heptane	142-82-5	0.017	0.040	0.040	2.4	Y	0.0479421	01/30/12	0.0424606	01/30/12	0.0476082	01/31/12
n-Nonane	111-84-2	0.010	0.040	0.040	4.0	Y	0.0450012	01/30/12	0.035101	01/30/12	0.0350987	01/31/12
n-Octane	111-65-9	0.013	0.040	0.040	3.1	Y	0.0462756	01/30/12	0.0443126	01/30/12	0.0605262	01/31/12
n-Propylbenzene	103-65-1	0.013	0.040	0.040	3.1	Y	0.0471636	01/30/12	0.0289208	01/30/12	0.0273027	01/31/12
sec-Butylbenzene	135-98-8	0.015	0.040	0.040	2.7	Y	0.044853	01/30/12	0.0347986	01/30/12	0.0245313	01/31/12
Styrene	100-42-5	0.011	0.040	0.040	3.6	Y	0.0313848	01/30/12	0.0323169	01/30/12	0.0333362	01/31/12
tert-Butylbenzene	98-06-6	0.011	0.040	0.040	3.6	Y	0.043188	01/30/12	0.0312036	01/30/12	0.0288258	01/31/12
Tetrachloroethene	127-18-4	0.015	0.040	0.040	2.7	Y	0.0432741	01/30/12	0.041753	01/30/12	0.0617601	01/31/12
Toluene	108-88-3	0.014	0.040	0.040	2.9	Y	0.0469235	01/30/12	0.0421189	01/30/12	0.0477686	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:		NJDEPLLO15		Prep Date:		01/30/12, 01/31/12		Instrument(s):			
PREP METHOD:		NA		Initial Amount:		200 mL		B		C	
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624		RTX-624	
MATRIX:		AIR		LOD Ref:		2					
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Date Analyzed
trans-1,3-Dichloropropene	10061-02-6	0.015	0.015	0.040	2.7	Y	0.0354448	01/30/12	0.0450151	01/30/12	01/31/12
Xylene, o-	95-47-6	0.016	0.016	0.040	2.5	Y	0.0416562	01/30/12	0.0359343	01/30/12	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLT015		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
	PREP METHOD:	NA	Initial Amount:	200 mL	B			C			G	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624			RTX-624			RTX-624		
MATRIX:	AIR	LOD Ref:	3									
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
1,1,1-Trichloroethane	71-55-6	0.020	0.080	0.080	4.0	Y	0.0847092	01/30/12	0.085857	01/30/12	0.1010164	01/31/12
1,1-Dichloroethane	75-34-3	0.023	0.080	0.080	3.5	Y	0.0931831	01/30/12	0.0857771	01/30/12	0.0986975	01/31/12
1,2,3-Trichlorobenzene	87-61-6	0.041	0.080	0.080	2.0	Y	0.0539692	01/30/12	0.0771812	01/30/12	0.0473325	01/31/12
1,2,3-Trichloropropane	96-18-4	0.025	0.080	0.080	3.2	Y	0.0977633	01/30/12	0.0754392	01/30/12	0.0944615	01/31/12
1,2,4-Trichlorobenzene	120-82-1	0.030	0.080	0.080	2.7	Y	0.0566003	01/30/12	0.0789511	01/30/12	0.0435911	01/31/12
1,2,4-Trimethylbenzene	95-63-6	0.021	0.080	0.080	3.8	Y	0.0829333	01/30/12	0.0685175	01/30/12	0.0631691	01/31/12
1,2-Dichlorobenzene	95-50-1	0.026	0.080	0.080	3.1	Y	0.085858	01/30/12	0.0752173	01/30/12	0.0806144	01/31/12
1,2-Dichloropropane	78-87-5	0.023	0.080	0.080	3.5	Y	0.0891035	01/30/12	0.0819475	01/30/12	0.0842903	01/31/12
1,2-Dichlorotetrafluoroethane	76-14-2	0.020	0.080	0.080	4.0	Y	0.0942239	01/30/12	0.0950581	01/30/12	0.0974105	01/31/12
1,3-Butadiene	106-99-0	0.025	0.080	0.080	3.2	Y	0.0955856	01/30/12	0.088752	01/30/12	0.084439	01/31/12
3-Chloropropene	107-05-1	0.047	0.080	0.080	1.7	Y	0.0993075	01/30/12	0.091879	01/30/12	0.1066344	01/31/12
4-Isopropyltoluene	99-87-6	0.020	0.080	0.080	4.0	Y	0.0788073	01/30/12	0.0615909	01/30/12	0.0668848	01/31/12
Acrylonitrile	107-13-1	0.023	0.080	0.080	3.5	Y	0.0697887	01/30/12	0.0685497	01/30/12	0.0882696	01/31/12
Benzyl chloride	100-44-7	0.022	0.080	0.080	3.6	Y	0.0765995	01/30/12	0.0641082	01/30/12	0.0700765	01/31/12
Bromomethane	74-83-9	0.027	0.080	0.080	3.0	Y	0.0930672	01/30/12	0.1028085	01/30/12	0.0944654	01/31/12
Carbon disulfide	75-15-0	0.020	0.080	0.080	4.0	Y	0.0905713	01/30/12	0.0853358	01/30/12	0.0909487	01/31/12
Chloroethane	75-00-3	0.033	0.080	0.080	2.4	Y	0.0917268	01/30/12	0.089895	01/30/12	0.1090466	01/31/12
Chloroform	67-66-3	0.024	0.080	0.080	3.3	Y	0.0919575	01/30/12	0.0870513	01/30/12	0.0988419	01/31/12
Chloromethane	74-87-3	0.034	0.080	0.080	2.4	Y	0.1161505	01/30/12	0.1338395	01/30/12	0.1092541	01/31/12
Dichlorodifluoromethane	75-71-8	0.020	0.080	0.080	4.0	Y	0.0970985	01/30/12	0.0993256	01/30/12	0.1069844	01/31/12
Freon 22	75-45-6	0.023	0.080	0.080	3.5	Y	0.1103272	01/30/12	0.1130052	01/30/12	0.1133509	01/31/12
Freon TF	76-13-1	0.020	0.080	0.080	4.0	Y	0.0864918	01/30/12	0.0909698	01/30/12	0.0951117	01/31/12
Hexachlorobutadiene	87-68-3	0.029	0.080	0.080	2.8	Y	0.088581	01/30/12	0.0782484	01/30/12	0.1003174	01/31/12
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.040	0.080	0.080	2.0	Y	0.0498435	01/30/12	0.0577654	01/30/12	0.0609178	01/31/12
Methyl Ethyl Ketone	78-93-3	0.025	0.080	0.080	3.2	Y	0.0872113	01/30/12	0.0687485	01/30/12	0.1159597	01/31/12
Methyl isobutyl ketone	108-10-1	0.034	0.080	0.080	2.4	Y	0.0662186	01/30/12	0.0665661	01/30/12	0.0747982	01/31/12
Methylene Chloride	75-09-2	0.023	0.080	0.080	3.5	Y	0.151845	01/30/12	0.1578643	01/30/12	0.129091	01/31/12
Naphthalene	91-20-3	0.038	0.080	0.080	2.1	Y	0.0384757	01/30/12	0.0722274	01/30/12	0.024552	01/31/12
n-Butane	106-97-8	0.022	0.080	0.080	3.6	Y	0.100763	01/30/12	0.0958848	01/30/12	0.1046282	01/31/12
n-Butylbenzene	104-51-8	0.022	0.080	0.080	3.6	Y	0.0837784	01/30/12	0.0570576	01/30/12	0.0580806	01/31/12
n-Hexane	110-54-3	0.020	0.080	0.080	4.0	Y	0.0873752	01/30/12	0.0821212	01/30/12	0.08679	01/31/12
n-Pentane	109-66-0	0.023	0.080	0.080	3.5	Y	0.1048033	01/30/12	0.0910497	01/30/12	0.0965429	01/31/12
n-Undecane	1120-21-4	0.034	0.080	0.080	2.4	Y	0.1022867	01/30/12	0.0466734	01/30/12	0.0571363	01/31/12
tert-Butyl alcohol	75-65-0	0.041	0.080	0.080	2.0	Y	0.0774393	01/30/12	0.0757495	01/30/12	0.0971297	01/31/12
Tetrahydrofuran	109-99-9	0.029	0.080	0.080	2.8	Y	0.0860254	01/30/12	0.0813159	01/30/12	0.0882096	01/31/12
trans-1,2-Dichloroethene	156-60-5	0.023	0.080	0.080	3.5	Y	0.0847762	01/30/12	0.0794756	01/30/12	0.0924157	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLT015	Prep Date:	01/30/12, 01/31/12	Instrument(s):			
PREP METHOD:	NA	Initial Amount:	200 mL	B		C	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624		RTX-624	
MATRIX:	AIR	LOD Ref:	3				
ANALYTE	CAS #	ppbv	Spike	Spike/DL	Pass	Date	Date
		ppbv	ppbv	Ratio	Y/N	Analyzed	Analyzed
Trichlorofluoromethane	75-69-4	0.021	0.080	3.8	Y	01/30/12	01/30/12
Vinyl acetate	108-05-4	0.025	0.080	3.2	Y	01/30/12	01/30/12
						0.089964	0.1038024
						0.0670452	0.0689756
						0.094083	0.1038024
						0.0689756	0.086645
						01/30/12	01/31/12
						01/30/12	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:		NJDEPLLT015		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		B			C		
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624			RTX-624		
MATRIX:		AIR		LOD Ref:		4							
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	
1,1-Dichloroethene	75-35-4	0.086	0.086	0.20	2.3	Y	0.21544	01/30/12	0.2414822	01/30/12	0.1941059	01/31/12	
1,4-Dioxane	123-91-1	0.070	0.070	0.20	2.9	Y	0.1538093	01/30/12	0.1757113	01/30/12	0.1706352	01/31/12	
Acetonitrile	75-05-8	0.082	0.082	0.20	2.4	Y	0.2620567	01/30/12	0.4688481	01/30/12	0.2682369	01/31/12	
Acrolein	107-02-8	0.067	0.067	0.20	3.0	Y	0.2478182	01/30/12	0.2085343	01/30/12	0.2568267	01/31/12	
cis-1,2-Dichloroethene	156-59-2	0.084	0.084	0.20	2.4	Y	0.2065816	01/30/12	0.2304565	01/30/12	0.217851	01/31/12	
Ethanol	64-17-5	0.18	0.18	0.40	2.2	Y	0.6113607	01/30/12	0.4718399	01/30/12	0.5560324	01/31/12	
Ethyl acetate	141-78-6	0.065	0.065	0.20	3.1	Y	0.0826342	01/30/12	0.0257973	01/30/12	0.2569577	01/31/12	
Isopentane	78-78-4	0.064	0.064	0.20	3.1	Y	0.2421419	01/30/12	0.2361926	01/30/12	0.2148304	01/31/12	
Isopropyl alcohol	67-63-0	0.076	0.076	0.20	2.6	Y	0.1918079	01/30/12	0.1819499	01/30/12	0.2239464	01/31/12	
n-Butanol	71-36-3	0.14	0.14	0.20	1.4	Y	0.1789814	01/30/12	0.2396682	01/30/12	0.2954564	01/31/12	
n-Dodecane	112-40-3	0.19	0.19	0.20	1.0	Y	0.1615149	01/30/12	0.2051198	01/30/12	0.1318974	01/31/12	
Propylene	115-07-1	0.094	0.094	0.20	2.1	Y	0.271858	01/30/12	0.3481022	01/30/12	0.2677293	01/31/12	

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLO15	Prep Date:	01/30/12, 01/31/12	Instrument(s):			
PREP METHOD:	NA	Initial Amount:	200 mL	B		C	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624		RTX-624	
MATRIX:	AIR	LOD Ref:	4				
ANALYTE	CAS #	ppbv	Spike	Spike/DL	Pass	Result	Date
Acetone	67-64-1	0.40	ppbv	Ratio	Y/N	ppbv	Analyzed
			0.50	1.3	Y	0.8803931	01/30/12
						0.9494763	01/31/12

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		NJDEPLLT015		Prep Date:		01/30/12, 01/31/12, 02/1		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		B		C		G	
CLEANUP METHOD(S):		NA		Final Amount:		200 mL		RTX-624		RTX-624		RTX-624	
MATRIX:		AIR		CSV Ref:		LOQ		01/30/12, 01/31/12		01/30/12, 02/09/12, 02/28/12		01/31/12	
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Ratio	Pass	Spike / LOQ Ratio	Result ppbv	%R	Result ppbv	%R	Result ppbv	%R
1,1,1-Trichloroethane	71-55-6	0.20	0.20	0.20	1.0	Y	1.0	0.2413639	107	0.20413639	102	0.2478879	124
1,1,2,2-Tetrachloroethane	79-34-5	0.20	0.20	0.20	1.0	Y	1.0	0.198034594	110	0.198034594	99	0.1973121	99
1,1,2-Trichloroethane	79-00-5	0.20	0.20	0.20	1.0	Y	1.0	0.2067923	103	0.198735441	99	0.2353734	118
1,1-Dichloroethane	75-34-3	0.20	0.20	0.20	1.0	Y	1.0	0.2315938	116	0.195251478	98	0.2178936	109
1,1-Dichloroethene	75-35-4	0.20	0.20	0.20	1.0	Y	1.0	0.2156916	108	0.236801737	118	0.2295669	115
1,2,3-Trichlorobenzene	87-61-6	0.20	0.20	0.20	1.0	Y	1.0	0.124589	62	0.175465772	88	0.1194694	60
1,2,3-Trichloropropane	96-18-4	0.50	0.50	0.50	1.0	Y	1.0	0.5973531	119	0.49043631	98	0.5194116	104
1,2,4-Trichlorobenzene	120-82-1	0.50	0.50	0.50	1.0	Y	1.0	0.3865497	77	0.443693854	89	0.3481276	70
1,2,4-Trimethylbenzene	95-63-6	0.20	0.20	0.20	1.0	Y	1.0	0.1980249	99	0.184375444	92	0.1835486	92
1,2-Dibromoethane	106-93-4	0.20	0.20	0.20	1.0	Y	1.0	0.1826634	91	0.181906254	91	0.2259952	113
1,2-Dichlorobenzene	95-50-1	0.20	0.20	0.20	1.0	Y	1.0	0.1917522	96	0.195517514	98	0.2038696	102
1,2-Dichloroethane	107-06-2	0.20	0.20	0.20	1.0	Y	1.0	0.2202224	110	0.20169939	101	0.2573214	129
1,2-Dichloropropane	78-87-5	0.20	0.20	0.20	1.0	Y	1.0	0.2269977	113	0.19984162	100	0.1994906	100
1,2-Dichlorotetrafluoroethane	76-14-2	0.20	0.20	0.20	1.0	Y	1.0	0.2558942	128	0.226962474	113	0.2166011	108
1,3,5-Trimethylbenzene	108-67-8	0.20	0.20	0.20	1.0	Y	1.0	0.2052589	103	0.182155396	91	0.1949404	97
1,3-Butadiene	106-99-0	0.20	0.20	0.20	1.0	Y	1.0	0.240449	120	0.212136957	106	0.207543	104
1,3-Dichlorobenzene	541-73-1	0.20	0.20	0.20	1.0	Y	1.0	0.1904339	95	0.189661204	95	0.2039491	102
1,4-Dichlorobenzene	106-46-7	0.20	0.20	0.20	1.0	Y	1.0	0.1811234	91	0.187857839	94	0.1899928	95
1,4-Dioxane	123-91-1	5.0	5.0	5.0	1.0	Y	1.0	5.214428	104	4.519464281	91	5.2969506	106
2,2,4-Trimethylpentane	540-84-1	0.20	0.20	0.20	1.0	Y	1.0	0.2269492	113	0.18981289	95	0.2068431	103
2-Chlorotoluene	95-49-8	0.20	0.20	0.20	1.0	Y	1.0	0.215235	108	0.186098239	93	0.2324965	116
3-Chloropropene	107-05-1	0.20	0.20	0.20	1.0	Y	1.0	0.2505149	125	0.206991005	103	0.2258961	113
4-Ethyltoluene	622-96-8	0.20	0.20	0.20	1.0	Y	1.0	0.2007357	100	0.168665588	84	0.1977668	99
4-Isopropyltoluene	99-87-6	0.20	0.20	0.20	1.0	Y	1.0	0.190941	95	0.174423806	87	0.1910409	96
Acetone	67-64-1	5.0	5.0	5.0	1.0	Y	1.0	6.8730918	138	4.868555067	98	6.127913	123
Acetonitrile	75-05-8	5.0	5.0	5.0	1.0	Y	1.0	6.3148979	127	5.280957546	106	5.0024665	100
Acrolein	107-02-8	5.0	5.0	5.0	1.0	Y	1.0	5.9856251	120	4.506646391	90	6.2722431	126
Acrylonitrile	107-13-1	0.50	0.50	0.50	1.0	Y	1.0	0.5651999	113	0.466895501	93	0.4965948	99
Alpha Methyl Styrene	98-83-9	0.20	0.20	0.20	1.0	Y	1.0	0.1511434	76	0.142595619	71	0.1719449	86
Benzene	71-43-2	0.20	0.20	0.20	1.0	Y	1.0	0.2278442	114	0.205776913	103	0.2311636	116
Benzyl chloride	100-44-7	0.20	0.20	0.20	1.0	Y	1.0	0.1887917	94	0.173426176	87	0.1754307	88
Bromodichloromethane	75-27-4	0.20	0.20	0.20	1.0	Y	1.0	0.2043207	102	0.178787348	89	0.2241085	112
Bromoethene(Vinyl Bromide)	593-60-2	0.20	0.20	0.20	1.0	Y	1.0	0.2341048	117	0.202929167	101	0.2178155	109
Bromoform	75-25-2	0.20	0.20	0.20	1.0	Y	1.0	0.1518521	76	0.155865313	78	0.2132712	107
Bromomethane	74-83-9	0.20	0.20	0.20	1.0	Y	1.0	0.2482376	124	0.235466793	118	0.2183876	109
Carbon disulfide	75-15-0	0.50	0.50	0.50	1.0	Y	1.0	0.583639	117	0.498735702	100	0.4880552	98

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		NJEPLLT015		Prep Date:		01/30/12, 01/31/12, 02/01/12		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		B		C		G	
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624		RTX-624		RTX-624	
MATRIX:		AIR		CSV Ref:		LOQ		01/30/12, 01/31/12		01/30/12, 02/09/12, 02/28/12		01/31/12	
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Ratio	Pass	Spike / LOQ Ratio	Result ppbv	%R	Result ppbv	%R	Result ppbv	%R
Carbon tetrachloride	56-23-5	0.040	0.040	0.040	1.0	Y	1.0	0.0473575	118	0.057302274	143	0.0503509	126
Chlorobenzene	108-90-7	0.20	0.20	0.20	1.0	Y	1.0	0.2062465	103	0.20444255	102	0.2411045	121
Chloroethane	75-00-3	0.50	0.50	0.50	1.0	Y	1.0	0.6750309	135	0.561782534	112	0.552979	111
Chloroform	67-66-3	0.20	0.20	0.20	1.0	Y	1.0	0.2207505	110	0.208729889	104	0.2151206	108
Chloromethane	74-87-3	0.50	0.50	0.50	1.0	Y	1.0	0.7072121	141	0.572340069	114	0.5452139	109
cis-1,2-Dichloroethene	156-59-2	0.20	0.20	0.20	1.0	Y	1.0	0.2050401	103	0.233783716	117	0.2441383	122
cis-1,3-Dichloropropene	10061-01-5	0.20	0.20	0.20	1.0	Y	1.0	0.1984556	99	0.196129627	98	0.2190777	110
Cumene	98-82-8	0.20	0.20	0.20	1.0	Y	1.0	0.1919965	96	0.194614906	97	0.2096771	105
Cyclohexane	110-82-7	0.20	0.20	0.20	1.0	Y	1.0	0.2122781	106	0.192938431	96	0.2086209	104
Dibromochloromethane	124-48-1	0.20	0.20	0.20	1.0	Y	1.0	0.1740128	87	0.169791393	85	0.2171467	109
Dibromomethane	74-95-3	0.20	0.20	0.20	1.0	Y	1.0	0.1859379	93	0.186893166	93	0.2350577	118
Dichlorodifluoromethane	75-71-8	0.50	0.50	0.50	1.0	Y	1.0	0.6652969	133	0.605556406	121	0.5640332	113
Ethanol	64-17-5	5.0	5.0	5.0	1.0	Y	1.0	6.414391	128	4.588677443	92	4.5392526	91
Ethyl acetate	141-78-6	5.0	5.0	5.0	1.0	Y	1.0	5.1923032	104	4.050578521	81	5.2451261	105
Ethyl ether	60-29-7	0.20	0.20	0.20	1.0	Y	1.0	0.2113528	106	0.199897571	100	0.1967665	98
Ethylbenzene	100-41-4	0.20	0.20	0.20	1.0	Y	1.0	0.2100009	105	0.192919809	96	0.2107844	105
Freon 22	75-45-6	0.50	0.50	0.50	1.0	Y	1.0	0.6807316	136	0.534866731	107	0.5578464	112
Freon TF	76-13-1	0.20	0.20	0.20	1.0	Y	1.0	0.219404	110	0.210084144	105	0.2112665	106
Hexachlorobutadiene	87-68-3	0.20	0.20	0.20	1.0	Y	1.0	0.1960653	98	0.210306905	105	0.2692485	135
Isopentane	78-78-4	0.20	0.20	0.20	1.0	Y	1.0	0.2693743	135	0.242683191	121	0.2101781	105
Isopropyl alcohol	67-63-0	5.0	5.0	5.0	1.0	Y	1.0	5.7955138	116	4.748712087	95	5.8711771	118
m,p-Xylene	179601-23-1	0.40	0.40	0.40	1.0	Y	1.0	0.4079192	102	0.373681854	93	0.4171524	104
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.50	0.50	0.50	1.0	Y	1.0	0.4598035	92	0.432799764	87	0.5299716	106
Methyl Ethyl Ketone	78-93-3	0.50	0.50	0.50	1.0	Y	1.0	0.5817211	116	0.513150981	103	0.5314954	106
Methyl isobutyl ketone	108-10-1	0.50	0.50	0.50	1.0	Y	1.0	0.5368203	107	0.465013224	93	0.4965566	99
Methyl methacrylate	80-62-6	0.50	0.50	0.50	1.0	Y	1.0	0.4559876	91	0.422457781	84	0.4628928	93
Methyl tert-butyl ether	1634-04-4	0.20	0.20	0.20	1.0	Y	1.0	0.2109562	105	0.215864572	108	0.1961266	98
Methylene Chloride	75-09-2	0.50	0.50	0.50	1.0	Y	1.0	0.6933183	139	0.560089251	112	0.5694856	114
Naphthalene	91-20-3	0.50	0.50	0.50	1.0	Y	1.0	0.380915	76	0.427072059	85	0.3103585	62
n-Butane	106-97-8	0.50	0.50	0.50	1.0	Y	1.0	0.6783094	136	0.525345233	105	0.5107488	102
n-Butanol	71-36-3	5.0	5.0	5.0	1.0	Y	1.0	5.2636989	105	4.63588975	93	5.4638248	109
n-Butylbenzene	104-51-8	0.20	0.20	0.20	1.0	Y	1.0	0.216894	108	0.157349697	79	0.1672985	84
n-Decane	124-18-5	0.50	0.50	0.50	1.0	Y	1.0	0.625222	125	0.307285191	61	0.432654	87
n-Dodecane	112-40-3	5.0	5.0	5.0	1.0	Y	1.0	6.5131796	131	2.645476656	53	4.6162814	93
n-Heptane	142-82-5	0.20	0.20	0.20	1.0	Y	1.0	0.2393929	120	0.185069607	93	0.2075883	104
n-Hexane	110-54-3	0.20	0.20	0.20	1.0	Y	1.0	0.2256931	113	0.194778498	97	0.2108638	105

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		NJDEPLLT015		Prep Date:		01/30/12, 01/31/12, 02/		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		C					
CLEANUP METHOD(S):		NA		Final Amount:		200 mL		RTX-624					
MATRIX:		AIR		LOQ		Pass		B		C		G	
ANALYTE	CAS #	ppbv	Spike ppbv	Ratio	LOQ	Pass	Result ppbv	%R	Result ppbv	%R	Result ppbv	%R	
n-Nonane	111-84-2	0.20	0.20	1.0	Y	Y	0.233004	117	0.169124795	85	0.1954915	98	
n-Octane	111-65-9	0.50	0.50	1.0	Y	Y	0.6737594	135	0.448385812	90	0.4802081	96	
n-Pentane	109-66-0	0.50	0.50	1.0	Y	Y	0.6811029	136	0.489728166	98	0.4541239	91	
n-Propylbenzene	103-65-1	0.20	0.20	1.0	Y	Y	0.2176803	109	0.180087873	90	0.2056518	103	
n-Undecane	1120-21-4	5.0	5.0	1.0	Y	Y	7.0288046	141	5.340271543	107	4.2634973	85	
Propylene	115-07-1	5.0	5.0	1.0	Y	Y	6.2890372	126	4.963429273	99	5.0779861	102	
sec-Butylbenzene	135-98-8	0.20	0.20	1.0	Y	Y	0.2136936	107	0.186399819	93	0.1992368	100	
Styrene	100-42-5	0.20	0.20	1.0	Y	Y	0.1610885	81	0.168681925	84	0.1825784	91	
tert-Butyl alcohol	75-65-0	5.0	5.0	1.0	Y	Y	5.7298763	115	4.769935009	96	5.8027565	116	
tert-Butylbenzene	98-06-6	0.20	0.20	1.0	Y	Y	0.2031567	102	0.187843873	94	0.2195841	110	
Tetrachloroethene	127-18-4	0.20	0.20	1.0	Y	Y	0.18203	91	0.191830153	96	0.26346	132	
Tetrahydrofuran	109-99-9	5.0	5.0	1.0	Y	Y	6.4020166	128	4.179536752	84	4.9814126	100	
Toluene	108-88-3	0.20	0.20	1.0	Y	Y	0.2146481	107	0.193888307	97	0.2518171	126	
trans-1,2-Dichloroethene	156-60-5	0.20	0.20	1.0	Y	Y	0.2281665	114	0.191509899	96	0.2067603	103	
trans-1,3-Dichloropropene	10061-02-6	0.20	0.20	1.0	Y	Y	0.1920366	96	0.186799607	93	0.234312	117	
Trichloroethene	79-01-6	0.040	0.040	1.0	Y	Y	0.0459406	115	0.047078137	117	0.047473	118	
Trichlorofluoromethane	75-69-4	0.20	0.20	1.0	Y	Y	0.2293409	115	0.217889263	109	0.2307896	115	
Vinyl acetate	108-05-4	5.0	5.0	1.0	Y	Y	6.2197289	125	4.530989643	91	5.5677659	112	
Vinyl chloride	75-01-4	0.040	0.040	1.0	Y	Y	0.0455769	114	0.037653748	94	0.048425	121	
Xylene, o-	95-47-6	0.20	0.20	1.0	Y	Y	0.1900893	95	0.194634968	97	0.2085756	104	

Note: Pass = The %R on each instrument is within 50-150%

Method T015 Low Level - New Jersey

Volatile Organic Compounds - Low
level (GC/MS) by New Jersey Method
TO 15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-20258-1
 SDG No.: 200-20258
 Matrix: Air Level: Low Lab File ID: wako04.d
 Lab ID: LCS 200-66781/4 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	0.200	0.213	106	60-140	
1,1-Dichloroethene	0.200	0.209	104	60-140	
1,2-Dichloroethene, trans-	0.200	0.195 J	97	60-140	
1,1-Dichloroethane	0.200	0.212	106	60-140	
1,2-Dichloroethene, cis-	0.200	0.206	103	60-140	
1,1,1-Trichloroethane	0.200	0.202	101	60-140	
Carbon tetrachloride	0.200	0.205	102	60-140	
1,2-Dichloroethane	0.200	0.198 J	99	60-140	
Trichloroethene	0.200	0.211	105	60-140	
Tetrachloroethene	0.200	0.211	105	60-140	

Column to be used to flag recovery and RPD values

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20258-1
 SDG No.: 200-20258
 Lab File ID: wako03.d Lab Sample ID: MB 200-66781/3
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: CHW.i Date Analyzed: 01/03/2014 13:40
 GC Column: RTX-624 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-66781/4	wako04.d	01/03/2014 14:30
SG-122313-SGP-01	200-20258-1	wakn10.d	01/03/2014 20:53
AA-122313-SGP-01	200-20258-2	wakn11.d	01/03/2014 21:41

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-20258-1
 SDG No.: 200-20258
 Lab File ID: wak001.d BFB Injection Date: 12/12/2013
 Instrument ID: CHW.i BFB Injection Time: 15:40
 Analysis Batch No.: 65930

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	13.0	
75	30.0 - 66.0% of mass 95	44.7	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.5	(0.5)1
174	50.0 - 120.0% of mass 95	100.6	
175	4.0 - 9.0 % of mass 174	7.1	(7.1)1
176	93.0 - 101.0% of mass 174	97.7	(97.1)1
177	5.0 - 9.0% of mass 176	6.6	(6.8)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-65930/4	wak004.d	12/12/2013	18:12
	IC 200-65930/5	wak005.d	12/12/2013	19:03
	IC 200-65930/6	wak006.d	12/12/2013	19:52
	IC 200-65930/7	wak007.d	12/12/2013	20:40
	ICIS 200-65930/8	wak008.d	12/12/2013	21:29
	IC 200-65930/9	wak009.d	12/12/2013	22:18
	IC 200-65930/10	wak010.d	12/12/2013	23:07
	IC 200-65930/11	wak011.d	12/12/2013	23:57
	ICV 200-65930/14	wak014.d	12/13/2013	02:26

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-20258-1
 SDG No.: 200-20258
 Lab File ID: wako01.d BFB Injection Date: 01/03/2014
 Instrument ID: CHW.i BFB Injection Time: 10:21
 Analysis Batch No.: 66781

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	13.2	
75	30.0 - 66.0% of mass 95	44.7	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.5	(0.5)1
174	50.0 - 120.0% of mass 95	104.9	
175	4.0 - 9.0 % of mass 174	7.2	(6.9)1
176	93.0 - 101.0% of mass 174	102.6	(97.8)1
177	5.0 - 9.0% of mass 176	7.0	(6.8)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-66781/15	wako15.d	01/03/2014	12:39
	MB 200-66781/3	wako03.d	01/03/2014	13:40
	LCS 200-66781/4	wako04.d	01/03/2014	14:30
	LCS 200-66781/5	wakn05.d	01/03/2014	15:19
	LCS 200-66781/6	wakn06.d	01/03/2014	16:08
SG-122313-SGP-01	200-20258-1	wakn10.d	01/03/2014	20:53
AA-122313-SGP-01	200-20258-2	wakn11.d	01/03/2014	21:41
	CCVC 200-66781/13	wakn13.d	01/03/2014	23:20
	CCVC 200-66781/14	wakn14.d	01/04/2014	00:10

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20258-1
 SDG No.: 200-20258
 Sample No.: ICIS 200-65930/8 Date Analyzed: 12/12/2013 21:29
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): wak008.d Heated Purge: (Y/N) N
 Calibration ID: 24718

	BCM		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	248225	12.87	1207029	14.76	1082079	20.45	
UPPER LIMIT	347515	13.20	1689841	15.09	1514911	20.78	
LOWER LIMIT	148935	12.54	724217	14.43	649247	20.12	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 200-65930/14		239504	12.87	1142712	14.75	1065474	20.45

BCM = Chlorobromomethane
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20258-1
 SDG No.: 200-20258
 Sample No.: CCVIS 200-66781/15 Date Analyzed: 01/03/2014 12:39
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): wako15.d Heated Purge: (Y/N) N
 Calibration ID: 24718

	BCM		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	322268	12.86	1520782	14.75	1401243	20.45	
UPPER LIMIT	451175	13.19	2129095	15.08	1961740	20.78	
LOWER LIMIT	193361	12.53	912469	14.42	840746	20.12	
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 200-66781/3		339744	12.86	1636471	14.75	1435822	20.45
LCS 200-66781/4		298255	12.86	1423591	14.75	1264234	20.45
LCS 200-66781/5		307961	12.86	1482926	14.75	1308416	20.45
LCS 200-66781/6		317309	12.85	1504319	14.75	1370813	20.45
200-20258-1	SG-122313-SGP-01	277841	12.87	1287896	14.76	1168955	20.45
200-20258-2	AA-122313-SGP-01	251273	12.86	1146536	14.75	1077741	20.45
CCVC 200-66781/13		310853	12.87	1456664	14.75	1361016	20.45

BCM = Chlorobromomethane
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-20258-1
 SDG No.: 200-20258
 Client Sample ID: SG-122313-SGP-01 Lab Sample ID: 200-20258-1
 Matrix: Air Lab File ID: wakn10.d
 Analysis Method: TO15LL/NJ Date Collected: 12/23/2013 10:43
 Sample wt/vol: 20 (mL) Date Analyzed: 01/03/2014 20:53
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 66781 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	2.0	U	2.0	0.38
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.24
156-60-5	1,2-Dichloroethene, trans-	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	2.0	U	2.0	0.38
156-59-2	1,2-Dichloroethene, cis-	2.0	U	2.0	0.38
71-55-6	1,1,1-Trichloroethane	2.0	U	2.0	0.21
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.21
107-06-2	1,2-Dichloroethane	2.0	U	2.0	0.17
79-01-6	Trichloroethene	5.7		2.0	0.24
127-18-4	Tetrachloroethene	61		2.0	0.16

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-20258-1
 SDG No.: 200-20258
 Client Sample ID: AA-122313-SGP-01 Lab Sample ID: 200-20258-2
 Matrix: Air Lab File ID: wakn11.d
 Analysis Method: TO15LL/NJ Date Collected: 12/23/2013 10:43
 Sample wt/vol: 20 (mL) Date Analyzed: 01/03/2014 21:41
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 66781 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	2.0	U	2.0	0.38
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.24
156-60-5	1,2-Dichloroethene, trans-	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	2.0	U	2.0	0.38
156-59-2	1,2-Dichloroethene, cis-	2.0	U	2.0	0.38
71-55-6	1,1,1-Trichloroethane	2.0	U	2.0	0.21
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.21
107-06-2	1,2-Dichloroethane	2.0	U	2.0	0.17
79-01-6	Trichloroethene	2.0	U	2.0	0.24
127-18-4	Tetrachloroethene	2.0	U	2.0	0.16

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-20258-1 Analy Batch No.: 65930

SDG No.: 200-20258

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/12/2013 18:12 Calibration End Date: 12/12/2013 23:57 Calibration ID: 24718

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-65930/4	wak004.d
Level 2	IC 200-65930/5	wak005.d
Level 3	IC 200-65930/6	wak006.d
Level 4	IC 200-65930/7	wak007.d
Level 5	ICIS 200-65930/8	wak008.d
Level 6	IC 200-65930/9	wak009.d
Level 7	IC 200-65930/10	wak010.d
Level 8	IC 200-65930/11	wak011.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	++++ 4.0127	++++ 3.7871	4.0771 3.6104	3.5425	4.0272	Ave		3.8428			6.0		30.0				
1,2-Dichlorotetrafluoroethane	++++ 3.7079	3.6219 3.5041	3.8666 3.2874	3.2774	3.7402	Ave		3.5722			6.3		30.0				
Chloromethane	++++ 0.6827	++++ 0.6601	0.6793 0.6465	0.5944	0.6753	Ave		0.6564			5.1		30.0				
Vinyl chloride	++++ 0.9248	0.8293 0.9388	0.8845 0.8637	0.7757	0.9228	Ave		0.8771			6.7		30.0				
1,3-Butadiene	++++ 0.5933	0.5458 0.6313	0.3447 0.5801	0.5135	0.6028	Ave		0.5445			18.0		30.0				
Bromomethane	++++ 0.9929	0.9302 0.9884	1.0175 0.9283	0.8407	0.9729	Ave		0.9530			6.2		30.0				
Chloroethane	++++ 0.5158	++++ 0.4856	0.2254 0.4927	0.4648	0.5416	Ave		0.4543			25.0		30.0				
Vinyl bromide	++++ 1.4182	1.2679 1.3063	1.2953 1.2964	1.2061	1.3949	Ave		1.3122			5.6		30.0				
Trichlorofluoromethane	++++ 4.3300	4.0385 4.0915	4.3114 3.9435	3.7548	4.3024	Ave		4.1103			5.3		30.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 2.7731	2.6341 2.5978	2.8528 2.4573	2.4543	2.7999	Ave		2.6528			6.1		30.0				
1,1-Dichloroethene	++++ 1.2963	1.1606 1.2262	1.2538 1.1810	1.1104	1.2811	Ave		1.2156			5.6		30.0				
Acetone	++++ 1.3839	++++ 1.3010	++++ 1.2390	1.2874	1.7579	Ave		1.3938			15.0		30.0				
Carbon disulfide	++++ 3.3188	++++ 3.1671	3.2853 3.0449	2.8640	3.3170	Ave		3.1662			5.8		30.0				
Isopropanol	++++ 1.0521	++++ 0.9581	++++ 0.9067	0.9342	1.0931	Ave		0.9889			8.1		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-20258-1 Analy Batch No.: 65930

SDG No.: 200-20258

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/12/2013 18:12 Calibration End Date: 12/12/2013 23:57 Calibration ID: 24718

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Allyl chloride	++++ 0.9529	0.7130 0.9184	0.8157 0.9056	0.7955	0.9269	Ave		0.8611			10.0		30.0				
Methylene Chloride	++++ 0.9162	++++ 0.8753	0.5943 0.8480	0.8205	0.8977	Ave		0.8253			14.0		30.0				
tert-Butyl alcohol	++++ 2.0611	++++ 1.8960	++++ 1.8468	1.7433	2.0981	Ave		1.9291			7.7		30.0				
Methyl tert-butyl ether	++++ 3.9933	++++ 3.1244 3.7957	1.6582 3.6202	3.2930	3.8456	Ave		3.3329			24.0		30.0				
1,2-Dichloroethene, trans-	++++ 1.6369	1.4955 1.5692	1.5840 1.5196	1.4066	1.6293	Ave		1.5487			5.3		30.0				
n-Hexane	++++ 1.5715	1.2940 1.5142	1.5414 1.4327	1.3633	1.5581	Ave		1.4679			7.3		30.0				
1,1-Dichloroethane	++++ 1.9752	1.8489 1.9098	1.9653 1.8207	1.7438	1.9724	Ave		1.8909			4.7		30.0				
1,2-Dichloroethene, cis-	++++ 1.4039	1.1574 1.3591	1.3209 1.2567	1.2146	1.4091	Ave		1.3031			7.4		30.0				
Methyl Ethyl Ketone	++++ 0.5831	++++ 0.5510	0.6045 0.5032	0.5151	0.5889	Ave		0.5576			7.5		30.0				
Tetrahydrofuran	++++ 0.1799	++++ 0.1727	++++ 0.1599	0.1542	0.1780	Ave		0.1689			6.7		30.0				
Chloroform	++++ 2.9887	2.7116 2.8775	2.9070 2.7346	2.5775	2.9457	Ave		2.8204			5.3		30.0				
Cyclohexane	++++ 0.3677	0.3032 0.3534	0.3443 0.3168	0.3299	0.3691	Ave		0.3406			7.4		30.0				
1,1,1-Trichloroethane	++++ 0.7235	0.6099 0.7028	0.7024 0.6493	0.6292	0.7194	Ave		0.6766			6.8		30.0				
Carbon tetrachloride	++++ 0.7908	0.6511 0.7634	0.7337 0.7159	0.6803	0.7799	Ave		0.7307			7.1		30.0				
2,2,4-Trimethylpentane	++++ 1.0048	0.7733 0.9658	0.9058 0.8720	0.8786	0.9920	Ave		0.9132			8.9		30.0				
Benzene	++++ 0.7787	0.7042 0.7493	0.7961 0.6858	0.6967	0.7771	Ave		0.7411			6.1		30.0				
1,2-Dichloroethane	++++ 0.3981	0.3284 0.3848	0.3664 0.3690	0.3391	0.3873	Ave		0.3676			7.0		30.0				
n-Heptane	++++ 0.3103	0.2608 0.2965	0.2792 0.2704	0.2688	0.3038	Ave		0.2843			6.8		30.0				
Trichloroethene	++++ 0.4107	0.3613 0.3932	0.3894 0.3643	0.3620	0.4070	Ave		0.3840			5.6		30.0				
1,2-Dichloropropane	++++ 0.2391	0.2000 0.2287	0.2206 0.2118	0.2080	0.2353	Ave		0.2205			6.6		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-20258-1 Analy Batch No.: 65930

SDG No.: 200-20258

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/12/2013 18:12 Calibration End Date: 12/12/2013 23:57 Calibration ID: 24718

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Methyl methacrylate	++++ 0.2758	++++ 0.2658	0.1902 0.2540	0.2276	0.2684	Ave		0.2470			13.0		30.0				
1,4-Dioxane	++++ 0.1316	++++ 0.1144	++++ 0.1080	0.1186	0.1368	Ave		0.1219			9.8		30.0				
Bromodichloromethane	++++ 0.6786	0.4998 0.6491	0.5790 0.6097	0.5733	0.6554	Ave		0.6064			10.0		30.0				
1,3-Dichloropropene, cis-	++++ 0.4533	0.2725 0.4369	0.3344 0.4179	0.3679	0.4282	Ave		0.3873			17.0		30.0				
Methyl isobutyl ketone	++++ 0.4086	++++ 0.3849	0.2963 0.3680	0.3381	0.4012	Ave		0.3662			12.0		30.0				
Toluene	++++ 0.6821	0.6506 0.6332	0.7231 0.5633	0.6455	0.6786	Ave		0.6538			7.6		30.0				
1,3-Dichloropropene, trans-	++++ 0.5024	0.2947 0.4781	0.3569 0.4683	0.4023	0.4751	Ave		0.4254			18.0		30.0				
1,1,2-Trichloroethane	++++ 0.3259	0.2529 0.3077	0.2995 0.2854	0.2861	0.3176	Ave		0.2964			8.2		30.0				
Tetrachloroethene	++++ 0.8043	0.7107 0.7517	0.8045 0.6710	0.7319	0.7988	Ave		0.7533			6.9		30.0				
Dibromochloromethane	++++ 0.8885	0.6111 0.8410	0.7075 0.7812	0.7548	0.8739	Ave		0.7797			13.0		30.0				
1,2-Dibromoethane	++++ 0.6951	0.5209 0.6601	0.5965 0.6178	0.5896	0.6748	Ave		0.6221			9.6		30.0				
Chlorobenzene	++++ 1.0500	1.0179 0.9866	1.0602 0.9115	0.9373	1.0422	Ave		1.0008			5.8		30.0				
Ethylbenzene	++++ 1.6261	1.3137 1.5326	1.5311 1.3970	1.4466	1.6153	Ave		1.4946			7.7		30.0				
m-Xylene & p-Xylene	++++ 0.6266	0.5340 0.5827	0.6358 0.5275	0.5793	0.6315	Ave		0.5882			7.7		30.0				
o-Xylene	++++ 0.6382	0.5077 0.5950	0.5602 0.5416	0.5745	0.6461	Ave		0.5805			8.6		30.0				
Styrene	++++ 0.9731	0.5870 0.9224	0.7597 0.8530	0.8441	0.9741	Ave		0.8448			16.0		30.0				
Bromoform	++++ 0.8919	0.5369 0.8411	0.6649 0.7660	0.7618	0.8827	Ave		0.7636			17.0		30.0				
1,1,2,2-Tetrachloroethane	++++ 0.8322	0.7302 0.7774	0.7998 0.7020	0.7563	0.8514	Ave		0.7785			6.9		30.0				
4-Ethyltoluene	++++ 2.0442	1.5885 1.8941	1.9315 1.6601	1.8352	2.0833	Ave		1.8624			9.9		30.0				
2-Chlorotoluene	++++ 1.6750	1.4841 1.5583	1.6449 1.3976	1.4965	1.7026	Ave		1.5656			7.2		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-20258-1 Analy Batch No.: 65930
 SDG No.: 200-20258
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 12/12/2013 18:12 Calibration End Date: 12/12/2013 23:57 Calibration ID: 24718

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,3,5-Trimethylbenzene	+++++	1.5650	1.7970	1.6518	1.8635	Ave		1.7068			7.9		30.0				
	1.8416	1.7093	1.5197														
1,2,4-Trimethylbenzene	+++++	1.3752	1.6759	1.6080	1.8398	Ave		1.6455			10.0		30.0				
	1.8234	1.6847	1.5115														
1,3-Dichlorobenzene	+++++	0.9539	1.0523	1.0279	1.2481	Ave		1.1095			10.0		30.0				
	1.2482	1.1704	1.0654														
1,4-Dichlorobenzene	+++++	0.8651	0.9451	0.9710	1.2075	Ave		1.0618			13.0		30.0				
	1.2249	1.1573	1.0617														
1,2-Dichlorobenzene	+++++	0.9727	1.0090	1.0144	1.2132	Ave		1.0853			9.4		30.0				
	1.2186	1.1329	1.0366														
1,2,4-Trichlorobenzene	+++++	+++++	0.3613	0.3752	0.6525	Ave		0.5669			28.0		30.0				
	0.7080	0.6290	0.6751														
Hexachlorobutadiene	+++++	0.8408	0.9076	0.8045	0.9536	Ave		0.8601			8.8		30.0				
	0.9320	0.8418	0.7408														

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-20258-1 Analy Batch No.: 65930

SDG No.: 200-20258

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/12/2013 18:12 Calibration End Date: 12/12/2013 23:57 Calibration ID: 24718

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-65930/4	wak004.d
Level 2	IC 200-65930/5	wak005.d
Level 3	IC 200-65930/6	wak006.d
Level 4	IC 200-65930/7	wak007.d
Level 5	ICIS 200-65930/8	wak008.d
Level 6	IC 200-65930/9	wak009.d
Level 7	IC 200-65930/10	wak010.d
Level 8	IC 200-65930/11	wak011.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Dichlorodifluoromethane	BCM	Ave	++++ 1498852	++++ 2036941	49981 3865186	485352	999456	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	++++ 1384998	18222 1884732	47401 3519414	449033	928242	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	++++ 255025	++++ 355046	8328 692163	81439	167606	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	++++ 345433	4172 504923	10843 924618	106280	229012	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	++++ 221609	2746 339558	4226 621026	70353	149610	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	++++ 370868	4680 531610	12473 993761	115181	241442	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	++++ 192683	++++ 261212	2763 527430	63675	134403	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Vinyl bromide	BCM	Ave	++++ 529735	6379 702612	15879 1387891	165241	346182	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	++++ 1617376	20318 2200642	52854 4221765	514440	1067747	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloro-1,2,2-trifluoroethane	BCM	Ave	++++ 1035821	13252 1397265	34973 2630721	336259	694880	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethene	BCM	Ave	++++ 484212	5839 659534	15370 1264367	152129	317945	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetone	BCM	Ave	++++ 516939	++++ 699772	++++ 1326389	176381	436259	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Carbon disulfide	BCM	Ave	++++ 1239670	++++ 1703476	40275 3259822	392390	823193	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Isopropanol	BCM	Ave	++++ 392981	++++ 515348	++++ 970703	127995	271288	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Allyl chloride	BCM	Ave	++++ 355925	3587 493946	10000 969536	108983	230038	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
 AIR - GC/MS VOA INITIAL CALIBRATION DATA
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-20258-1 Analy Batch No.: 65930

SDG No.: 200-20258

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/12/2013 18:12 Calibration End Date: 12/12/2013 23:57 Calibration ID: 24718

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Methylene Chloride	BCM	Ave	++++ 342226	++++ 470784	7285 907794	112408	222792	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
tert-Butyl alcohol	BCM	Ave	++++ 769883	++++ 1019788	++++ 1977171	238846	520688	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Methyl tert-butyl ether	BCM	Ave	++++ 1491587	15719 2041570	20328 3875641	451169	954394	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethene, trans-	BCM	Ave	++++ 611440	7524 844028	19418 1626841	192709	404364	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Hexane	BCM	Ave	++++ 586998	6510 814414	18896 1533795	186775	386694	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethane	BCM	Ave	++++ 737782	9302 1027200	24093 1949133	238918	489508	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethene, cis-	BCM	Ave	++++ 524392	5823 731013	16193 1345344	166414	349712	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Ethyl Ketone	BCM	Ave	++++ 217816	++++ 296370	7410 538711	70567	146155	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Tetrahydrofuran	DFB	Ave	++++ 329205	++++ 451139	++++ 852155	101249	214828	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Chloroform	BCM	Ave	++++ 1116352	13642 1547678	35637 2927600	353138	731043	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFB	Ave	++++ 673028	7515 923175	20413 1688008	216636	445466	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFB	Ave	++++ 1324300	15118 1835675	41648 3459556	413102	868137	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFB	Ave	++++ 1447512	16139 1993842	43501 3814449	446706	941186	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFB	Ave	++++ 1839233	19168 2522729	53707 4646331	576881	1197101	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFB	Ave	++++ 1425296	17456 1957216	47199 3654247	457446	937791	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFB	Ave	++++ 728704	8141 1005157	21725 1966384	222650	467406	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFB	Ave	++++ 568000	6465 774565	16555 1440616	176521	366662	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichloroethene	DFB	Ave	++++ 751793	8957 1026975	23087 1941309	237693	491220	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFB	Ave	++++ 437616	4958 597332	13080 1128560	136596	284011	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFB	Ave	++++ 504843	++++ 694248	11279 1353223	149417	323850	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFB	Ave	++++ 240826	++++ 298849	++++ 575243	77888	165035	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-20258-1 Analy Batch No.: 65930

SDG No.: 200-20258

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/12/2013 18:12 Calibration End Date: 12/12/2013 23:57 Calibration ID: 24718

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Bromodichloromethane	DFB	Ave	++++ 1242171	12388 1695508	34332 3248918	376429	790894	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichloropropene, cis-	DFB	Ave	++++ 829761	6754 1141045	19828 2226486	241583	516718	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl isobutyl ketone	DFB	Ave	++++ 747823	++++ 1005345	17569 1960750	222015	484157	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Toluene	CBZ	Ave	++++ 1121753	13704 1485517	37247 2730529	374209	734178	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichloropropene, trans-	DFB	Ave	++++ 919654	7304 1248842	21161 2495427	264182	573361	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBZ	Ave	++++ 536001	5327 721781	15426 1383319	165867	343630	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Tetrachloroethene	CBZ	Ave	++++ 1322635	14970 1763608	41440 3252617	424268	864187	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBZ	Ave	++++ 1461120	12873 1972982	36443 3787104	437541	945498	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dibromoethane	CBZ	Ave	++++ 1143093	10973 1548606	30725 2994648	341782	730003	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chlorobenzene	CBZ	Ave	++++ 1726735	21441 2314513	54606 4418570	543348	1127504	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylbenzene	CBZ	Ave	++++ 2674126	27672 3595593	78861 6771998	838534	1747508	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
m-Xylene & p-Xylene	CBZ	Ave	++++ 2060996	22497 2733985	65501 5114351	671615	1366350	++++ 30.0	0.401 40.0	1.00 80.0	9.99	20.0
o-Xylene	CBZ	Ave	++++ 1049575	10695 1395981	28855 2625249	333005	699008	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Styrene	CBZ	Ave	++++ 1600269	12364 2163997	39130 4134957	489313	1053878	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoform	CBZ	Ave	++++ 1466678	11309 1973332	34246 3713054	441577	954966	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	++++ 1368578	15382 1823711	41194 3402773	438385	921128	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Ethyltoluene	CBZ	Ave	++++ 3361751	33462 4443607	99489 8047332	1063848	2253825	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2-Chlorotoluene	CBZ	Ave	++++ 2754570	31263 3655890	84726 6775236	867515	1842004	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3,5-Trimethylbenzene	CBZ	Ave	++++ 3028455	32967 4010127	92557 7366666	957486	2016034	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,4-Trimethylbenzene	CBZ	Ave	++++ 2998517	28967 3952293	86321 7327196	932117	1990462	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBZ	Ave	++++ 2052740	20094 2745844	54201 5164611	595827	1350281	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
 AIR - GC/MS VOA INITIAL CALIBRATION DATA
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-20258-1 Analy Batch No.: 65930

SDG No.: 200-20258

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/12/2013 18:12 Calibration End Date: 12/12/2013 23:57 Calibration ID: 24718

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
1,4-Dichlorobenzene	CBZ	Ave	++++ 2014386	18222 2715131	48678 5146856	562877	1306309	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorobenzene	CBZ	Ave	++++ 2004035	20489 2657751	51971 5024963	588045	1312502	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,4-Trichlorobenzene	CBZ	Ave	++++ 1164315	++++ 1475667	18612 3272796	217472	705913	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Hexachlorobutadiene	CBZ	Ave	++++ 1532640	17711 1974819	46747 3591316	466367	1031628	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

Curve Type Legend:

Ave = Average ISTD

FORM III
AIR - GC/MS VOA INITIAL CALIBRATION VERIFICATION RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-20258-1
 SDG No.: 200-20258
 Matrix: Air Level: Low Lab File ID: wak014.d
 Lab ID: ICV 200-65930/14 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	ICV CONCENTRATION (ppb v/v)	ICV % REC	QC LIMITS REC	#
Vinyl chloride	10.0	10.8	108	70-130	
1,1-Dichloroethene	10.0	12.4	124	70-130	
1,2-Dichloroethene, trans-	10.0	11.3	114	70-130	
1,1-Dichloroethane	10.0	11.3	113	70-130	
1,2-Dichloroethene, cis-	10.0	11.7	117	70-130	
1,1,1-Trichloroethane	10.0	12.0	120	70-130	
Carbon tetrachloride	10.0	11.3	113	70-130	
1,2-Dichloroethane	10.0	11.5	115	70-130	
Trichloroethene	10.0	11.3	113	70-130	
Tetrachloroethene	10.0	10.6	106	70-130	

Column to be used to flag recovery and RPD values

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-20258-1
 SDG No.: 200-20258
 Lab Sample ID: CCVIS 200-66781/15 Calibration Date: 01/03/2014 12:39
 Instrument ID: CHW.i Calib Start Date: 12/12/2013 18:12
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 12/12/2013 23:57
 Lab File ID: wak015.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	3.843	3.913		10.2	10.0	1.8	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.572	3.673		10.3	10.0	2.8	30.0
Chloromethane	Ave	0.6564	0.6735		10.3	10.0	2.6	30.0
Vinyl chloride	Ave	0.8771	0.9149		10.4	10.0	4.3	30.0
1,3-Butadiene	Ave	0.5445	0.6003		11.0	10.0	10.2	30.0
Bromomethane	Ave	0.9530	0.9537		10.0	10.0	0.0	30.0
Chloroethane	Ave	0.4543	0.4894		10.8	10.0	7.7	30.0
Vinyl bromide	Ave	1.312	1.362		10.4	10.0	3.8	30.0
Trichlorofluoromethane	Ave	4.110	4.165		10.1	10.0	1.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.653	2.680		10.1	10.0	1.0	30.0
1,1-Dichloroethene	Ave	1.216	1.239		10.2	10.0	1.9	30.0
Acetone	Ave	1.394	1.781		12.8	10.0	27.8	30.0
Carbon disulfide	Ave	3.166	3.187		10.1	10.0	0.7	30.0
Isopropanol	Ave	0.9889	0.9718		9.83	10.0	-1.7	30.0
Allyl chloride	Ave	0.8611	0.8859		10.3	10.0	2.9	30.0
Methylene Chloride	Ave	0.8253	0.8507		10.3	10.0	3.1	30.0
tert-Butyl alcohol	Ave	1.929	1.872		9.70	10.0	-3.0	30.0
Methyl tert-butyl ether	Ave	3.333	3.654		11.0	10.0	9.6	30.0
1,2-Dichloroethene, trans-	Ave	1.549	1.540		9.94	10.0	-0.6	30.0
n-Hexane	Ave	1.468	1.475		10.0	10.0	0.5	30.0
1,1-Dichloroethane	Ave	1.891	1.851		9.78	10.0	-2.1	30.0
1,2-Dichloroethene, cis-	Ave	1.303	1.345		10.3	10.0	3.2	30.0
Methyl Ethyl Ketone	Ave	0.5576	0.5601		10.0	10.0	0.4	30.0
Tetrahydrofuran	Ave	0.1689	0.1755		10.4	10.0	3.9	30.0
Chloroform	Ave	2.820	2.836		10.1	10.0	0.6	30.0
Cyclohexane	Ave	0.3406	0.3638		10.7	10.0	6.8	30.0
1,1,1-Trichloroethane	Ave	0.6766	0.7148		10.6	10.0	5.6	30.0
Carbon tetrachloride	Ave	0.7307	0.7808		10.7	10.0	6.8	30.0
2,2,4-Trimethylpentane	Ave	0.9132	0.9761		10.7	10.0	6.9	30.0
Benzene	Ave	0.7411	0.7691		10.4	10.0	3.8	30.0
1,2-Dichloroethane	Ave	0.3676	0.3782		10.3	10.0	2.9	30.0
n-Heptane	Ave	0.2843	0.3015		10.6	10.0	6.1	30.0
Trichloroethene	Ave	0.3840	0.4070		10.6	10.0	6.0	30.0
1,2-Dichloropropane	Ave	0.2205	0.2324		10.5	10.0	5.4	30.0
Methyl methacrylate	Ave	0.2470	0.2666		10.8	10.0	8.0	30.0
1,4-Dioxane	Ave	0.1219	0.1333		10.9	10.0	9.4	30.0
Bromodichloromethane	Ave	0.6064	0.6613		10.9	10.0	9.0	30.0
1,3-Dichloropropene, cis-	Ave	0.3873	0.4343		11.2	10.0	12.1	30.0
Methyl isobutyl ketone	Ave	0.3662	0.3936		10.7	10.0	7.5	30.0
Toluene	Ave	0.6538	0.6675		10.2	10.0	2.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-20258-1
 SDG No.: 200-20258
 Lab Sample ID: CCVIS 200-66781/15 Calibration Date: 01/03/2014 12:39
 Instrument ID: CHW.i Calib Start Date: 12/12/2013 18:12
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 12/12/2013 23:57
 Lab File ID: wak015.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropene, trans-	Ave	0.4254	0.4797		11.3	10.0	12.8	30.0
1,1,2-Trichloroethane	Ave	0.2964	0.3124		10.5	10.0	5.4	30.0
Tetrachloroethene	Ave	0.7533	0.7972		10.6	10.0	5.8	30.0
Dibromochloromethane	Ave	0.7797	0.8775		11.3	10.0	12.5	30.0
1,2-Dibromoethane	Ave	0.6221	0.6706		10.8	10.0	7.8	30.0
Chlorobenzene	Ave	1.001	1.030		10.3	10.0	2.9	30.0
Ethylbenzene	Ave	1.495	1.580		10.6	10.0	5.7	30.0
m-Xylene & p-Xylene	Ave	0.5882	0.6255		21.3	20.0	6.3	30.0
o-Xylene	Ave	0.5805	0.6339		10.9	10.0	9.2	30.0
Styrene	Ave	0.8448	0.9555		11.3	10.0	13.1	30.0
Bromoform	Ave	0.7636	0.8966		11.7	10.0	17.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7785	0.8433		10.8	10.0	8.3	30.0
4-Ethyltoluene	Ave	1.862	2.078		11.2	10.0	11.6	30.0
2-Chlorotoluene	Ave	1.566	1.688		10.8	10.0	7.8	30.0
1,3,5-Trimethylbenzene	Ave	1.707	1.853		10.9	10.0	8.6	30.0
1,2,4-Trimethylbenzene	Ave	1.645	1.838		11.2	10.0	11.7	30.0
1,3-Dichlorobenzene	Ave	1.109	1.282		11.6	10.0	15.6	30.0
1,4-Dichlorobenzene	Ave	1.062	1.250		11.8	10.0	17.8	30.0
1,2-Dichlorobenzene	Ave	1.085	1.173		10.8	10.0	8.1	30.0
1,2,4-Trichlorobenzene	Ave	0.5669	0.5299		9.35	10.0	-6.5	30.0
Hexachlorobutadiene	Ave	0.8601	0.8935		10.4	10.0	3.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-20258-1
 SDG No.: 200-20258
 Lab Sample ID: CCVC 200-66781/13 Calibration Date: 01/03/2014 23:20
 Instrument ID: CHW.i Calib Start Date: 12/12/2013 18:12
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 12/12/2013 23:57
 Lab File ID: wakn13.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	3.843	4.025		10.5	10.0	4.7	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.572	3.786		10.6	10.0	6.0	30.0
Chloromethane	Ave	0.6564	0.6888		10.5	10.0	4.9	30.0
Vinyl chloride	Ave	0.8771	0.9489		10.8	10.0	8.2	30.0
1,3-Butadiene	Ave	0.5445	0.6229		11.4	10.0	14.4	30.0
Bromomethane	Ave	0.9530	0.9758		10.2	10.0	2.4	30.0
Chloroethane	Ave	0.4543	0.5218		11.5	10.0	14.8	30.0
Vinyl bromide	Ave	1.312	1.396		10.6	10.0	6.4	30.0
Trichlorofluoromethane	Ave	4.110	4.247		10.3	10.0	3.3	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.653	2.789		10.5	10.0	5.1	30.0
1,1-Dichloroethene	Ave	1.216	1.285		10.6	10.0	5.7	30.0
Acetone	Ave	1.394	1.816		13.0	10.0	30.3*	30.0
Carbon disulfide	Ave	3.166	3.361		10.6	10.0	6.2	30.0
Isopropanol	Ave	0.9889	0.9861		9.97	10.0	-0.3	30.0
Allyl chloride	Ave	0.8611	0.9108		10.6	10.0	5.8	30.0
Methylene Chloride	Ave	0.8253	0.8894		10.8	10.0	7.8	30.0
tert-Butyl alcohol	Ave	1.929	1.852		9.60	10.0	-4.0	30.0
Methyl tert-butyl ether	Ave	3.333	3.672		11.0	10.0	10.2	30.0
1,2-Dichloroethene, trans-	Ave	1.549	1.597		10.3	10.0	3.1	30.0
n-Hexane	Ave	1.468	1.504		10.2	10.0	2.5	30.0
1,1-Dichloroethane	Ave	1.891	1.906		10.1	10.0	0.8	30.0
1,2-Dichloroethene, cis-	Ave	1.303	1.389		10.7	10.0	6.6	30.0
Methyl Ethyl Ketone	Ave	0.5576	0.5835		10.5	10.0	4.6	30.0
Tetrahydrofuran	Ave	0.1689	0.1837		10.9	10.0	8.7	30.0
Chloroform	Ave	2.820	2.949		10.5	10.0	4.6	30.0
Cyclohexane	Ave	0.3406	0.3762		11.0	10.0	10.4	30.0
1,1,1-Trichloroethane	Ave	0.6766	0.7366		10.9	10.0	8.9	30.0
Carbon tetrachloride	Ave	0.7307	0.8035		11.0	10.0	10.0	30.0
2,2,4-Trimethylpentane	Ave	0.9132	1.007		11.0	10.0	10.2	30.0
Benzene	Ave	0.7411	0.8084		10.9	10.0	9.1	30.0
1,2-Dichloroethane	Ave	0.3676	0.3878		10.5	10.0	5.5	30.0
n-Heptane	Ave	0.2843	0.3121		11.0	10.0	9.8	30.0
Trichloroethene	Ave	0.3840	0.4256		11.1	10.0	10.8	30.0
1,2-Dichloropropane	Ave	0.2205	0.2410		10.9	10.0	9.3	30.0
Methyl methacrylate	Ave	0.2470	0.2726		11.0	10.0	10.4	30.0
1,4-Dioxane	Ave	0.1219	0.1368		11.2	10.0	12.3	30.0
Bromodichloromethane	Ave	0.6064	0.6858		11.3	10.0	13.1	30.0
1,3-Dichloropropene, cis-	Ave	0.3873	0.4440		11.5	10.0	14.6	30.0
Methyl isobutyl ketone	Ave	0.3662	0.4024		11.0	10.0	9.9	30.0
Toluene	Ave	0.6538	0.6925		10.6	10.0	5.9	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-20258-1
 SDG No.: 200-20258
 Lab Sample ID: CCVC 200-66781/13 Calibration Date: 01/03/2014 23:20
 Instrument ID: CHW.i Calib Start Date: 12/12/2013 18:12
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 12/12/2013 23:57
 Lab File ID: wakn13.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropene, trans-	Ave	0.4254	0.4902		11.5	10.0	15.2	30.0
1,1,2-Trichloroethane	Ave	0.2964	0.3254		11.0	10.0	9.8	30.0
Tetrachloroethene	Ave	0.7533	0.8276		11.0	10.0	9.9	30.0
Dibromochloromethane	Ave	0.7797	0.8982		11.5	10.0	15.2	30.0
1,2-Dibromoethane	Ave	0.6221	0.6904		11.1	10.0	11.0	30.0
Chlorobenzene	Ave	1.001	1.067		10.7	10.0	6.6	30.0
Ethylbenzene	Ave	1.495	1.623		10.9	10.0	8.6	30.0
m-Xylene & p-Xylene	Ave	0.5882	0.6473		22.0	20.0	10.1	30.0
o-Xylene	Ave	0.5805	0.6545		11.3	10.0	12.7	30.0
Styrene	Ave	0.8448	0.9830		11.6	10.0	16.4	30.0
Bromoform	Ave	0.7636	0.9243		12.1	10.0	21.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7785	0.8799		11.3	10.0	13.0	30.0
4-Ethyltoluene	Ave	1.862	2.147		11.5	10.0	15.3	30.0
2-Chlorotoluene	Ave	1.566	1.762		11.2	10.0	12.5	30.0
1,3,5-Trimethylbenzene	Ave	1.707	1.922		11.3	10.0	12.6	30.0
1,2,4-Trimethylbenzene	Ave	1.645	1.900		11.5	10.0	15.5	30.0
1,3-Dichlorobenzene	Ave	1.109	1.325		11.9	10.0	19.4	30.0
1,4-Dichlorobenzene	Ave	1.062	1.276		12.0	10.0	20.2	30.0
1,2-Dichlorobenzene	Ave	1.085	1.286		11.8	10.0	18.5	30.0
1,2,4-Trichlorobenzene	Ave	0.5669	0.6650		11.7	10.0	17.3	30.0
Hexachlorobutadiene	Ave	0.8601	1.006		11.7	10.0	17.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-20258-1
 SDG No.: 200-20258
 Lab Sample ID: CCVC 200-66781/14 Calibration Date: 01/04/2014 00:10
 Instrument ID: CHW.i Calib Start Date: 12/12/2013 18:12
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 12/12/2013 23:57
 Lab File ID: wakn14.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	3.843	4.246		11.0	10.0	10.5	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.572	3.963		11.1	10.0	10.9	30.0
Chloromethane	Ave	0.6564	0.7312		11.1	10.0	11.4	30.0
Vinyl chloride	Ave	0.8771	1.008		11.5	10.0	14.9	30.0
1,3-Butadiene	Ave	0.5445	0.6559		12.0	10.0	20.4	30.0
Bromomethane	Ave	0.9530	1.090		11.4	10.0	14.4	30.0
Chloroethane	Ave	0.4543	0.5607		12.3	10.0	23.4	30.0
Vinyl bromide	Ave	1.312	1.517		11.6	10.0	15.6	30.0
Trichlorofluoromethane	Ave	4.110	4.525		11.0	10.0	10.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.653	2.977		11.2	10.0	12.2	30.0
1,1-Dichloroethene	Ave	1.216	1.380		11.3	10.0	13.5	30.0
Acetone	Ave	1.394	1.943		13.9	10.0	39.4*	30.0
Carbon disulfide	Ave	3.166	3.568		11.3	10.0	12.7	30.0
Isopropanol	Ave	0.9889	1.081		10.9	10.0	9.3	30.0
Allyl chloride	Ave	0.8611	0.9757		11.3	10.0	13.3	30.0
Methylene Chloride	Ave	0.8253	0.9512		11.5	10.0	15.3	30.0
tert-Butyl alcohol	Ave	1.929	2.076		10.8	10.0	7.6	30.0
Methyl tert-butyl ether	Ave	3.333	4.032		12.1	10.0	21.0	30.0
1,2-Dichloroethene, trans-	Ave	1.549	1.718		11.1	10.0	10.9	30.0
n-Hexane	Ave	1.468	1.641		11.2	10.0	11.8	30.0
1,1-Dichloroethane	Ave	1.891	2.057		10.9	10.0	8.8	30.0
1,2-Dichloroethene, cis-	Ave	1.303	1.497		11.5	10.0	14.9	30.0
Methyl Ethyl Ketone	Ave	0.5576	0.6307		11.3	10.0	13.1	30.0
Tetrahydrofuran	Ave	0.1689	0.1951		11.5	10.0	15.5	30.0
Chloroform	Ave	2.820	3.125		11.1	10.0	10.8	30.0
Cyclohexane	Ave	0.3406	0.4048		11.9	10.0	18.8	30.0
1,1,1-Trichloroethane	Ave	0.6766	0.7913		11.7	10.0	17.0	30.0
Carbon tetrachloride	Ave	0.7307	0.8538		11.7	10.0	16.8	30.0
2,2,4-Trimethylpentane	Ave	0.9132	1.081		11.8	10.0	18.4	30.0
Benzene	Ave	0.7411	0.8626		11.6	10.0	16.4	30.0
1,2-Dichloroethane	Ave	0.3676	0.4148		11.3	10.0	12.8	30.0
n-Heptane	Ave	0.2843	0.3335		11.7	10.0	17.3	30.0
Trichloroethene	Ave	0.3840	0.4507		11.7	10.0	17.4	30.0
1,2-Dichloropropane	Ave	0.2205	0.2600		11.8	10.0	17.9	30.0
Methyl methacrylate	Ave	0.2470	0.2957		12.0	10.0	19.7	30.0
1,4-Dioxane	Ave	0.1219	0.1486		12.2	10.0	21.9	30.0
Bromodichloromethane	Ave	0.6064	0.7278		12.0	10.0	20.0	30.0
1,3-Dichloropropene, cis-	Ave	0.3873	0.4815		12.4	10.0	24.3	30.0
Methyl isobutyl ketone	Ave	0.3662	0.4314		11.8	10.0	17.8	30.0
Toluene	Ave	0.6538	0.7335		11.2	10.0	12.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-20258-1
 SDG No.: 200-20258
 Lab Sample ID: CCVC 200-66781/14 Calibration Date: 01/04/2014 00:10
 Instrument ID: CHW.i Calib Start Date: 12/12/2013 18:12
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 12/12/2013 23:57
 Lab File ID: wakn14.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropene, trans-	Ave	0.4254	0.5307		12.5	10.0	24.8	30.0
1,1,2-Trichloroethane	Ave	0.2964	0.3417		11.5	10.0	15.3	30.0
Tetrachloroethene	Ave	0.7533	0.8731		11.6	10.0	15.9	30.0
Dibromochloromethane	Ave	0.7797	0.9520		12.2	10.0	22.1	30.0
1,2-Dibromoethane	Ave	0.6221	0.7356		11.8	10.0	18.2	30.0
Chlorobenzene	Ave	1.001	1.124		11.2	10.0	12.3	30.0
Ethylbenzene	Ave	1.495	1.719		11.5	10.0	15.0	30.0
m-Xylene & p-Xylene	Ave	0.5882	0.6872		23.4	20.0	16.8	30.0
o-Xylene	Ave	0.5805	0.6925		11.9	10.0	19.3	30.0
Styrene	Ave	0.8448	1.044		12.4	10.0	23.5	30.0
Bromoform	Ave	0.7636	0.9912		13.0	10.0	29.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7785	0.9523		12.2	10.0	22.3	30.0
4-Ethyltoluene	Ave	1.862	2.301		12.4	10.0	23.6	30.0
2-Chlorotoluene	Ave	1.566	1.857		11.9	10.0	18.6	30.0
1,3,5-Trimethylbenzene	Ave	1.707	2.038		11.9	10.0	19.4	30.0
1,2,4-Trimethylbenzene	Ave	1.645	1.989		12.1	10.0	20.9	30.0
1,3-Dichlorobenzene	Ave	1.109	1.406		12.7	10.0	26.7	30.0
1,4-Dichlorobenzene	Ave	1.062	1.374		12.9	10.0	29.4	30.0
1,2-Dichlorobenzene	Ave	1.085	1.350		12.4	10.0	24.4	30.0
1,2,4-Trichlorobenzene	Ave	0.5669	0.6906		12.2	10.0	21.8	30.0
Hexachlorobutadiene	Ave	0.8601	1.041		12.1	10.0	21.0	30.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-20258-1
 SDG No.: 200-20258
 Client Sample ID: _____ Lab Sample ID: MB 200-66781/3
 Matrix: Air Lab File ID: wako03.d
 Analysis Method: TO15LL/NJ Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 01/03/2014 13:40
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 66781 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.20	U	0.20	0.038
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.024
156-60-5	1,2-Dichloroethene, trans-	0.20	U	0.20	0.029
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.038
156-59-2	1,2-Dichloroethene, cis-	0.20	U	0.20	0.038
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.021
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.021
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.017
79-01-6	Trichloroethene	0.20	U	0.20	0.024
127-18-4	Tetrachloroethene	0.20	U	0.20	0.016

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-20258-1
 SDG No.: 200-20258
 Client Sample ID: _____ Lab Sample ID: LCS 200-66781/4
 Matrix: Air Lab File ID: wako04.d
 Analysis Method: TO15LL/NJ Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 01/03/2014 14:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 66781 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.213		0.20	0.038
75-35-4	1,1-Dichloroethene	0.209		0.20	0.024
156-60-5	1,2-Dichloroethene, trans-	0.195	J	0.20	0.029
75-34-3	1,1-Dichloroethane	0.212		0.20	0.038
156-59-2	1,2-Dichloroethene, cis-	0.206		0.20	0.038
71-55-6	1,1,1-Trichloroethane	0.202		0.20	0.021
56-23-5	Carbon tetrachloride	0.205		0.20	0.021
107-06-2	1,2-Dichloroethane	0.198	J	0.20	0.017
79-01-6	Trichloroethene	0.211		0.20	0.024
127-18-4	Tetrachloroethene	0.211		0.20	0.016

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-20258-1

SDG No.: 200-20258

Instrument ID: CHW.i Start Date: 12/12/2013 15:40

Analysis Batch Number: 65930 End Date: 12/13/2013 04:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-65930/1		12/12/2013 15:40	1	wak001.d	RTX-624 0.32 (mm)
VIBLK 200-65930/2		12/12/2013 16:35	1		RTX-624 0.32 (mm)
VIBLK 200-65930/3		12/12/2013 17:24	1		RTX-624 0.32 (mm)
IC 200-65930/4		12/12/2013 18:12	1	wak004.d	RTX-624 0.32 (mm)
IC 200-65930/5		12/12/2013 19:03	1	wak005.d	RTX-624 0.32 (mm)
IC 200-65930/6		12/12/2013 19:52	1	wak006.d	RTX-624 0.32 (mm)
IC 200-65930/7		12/12/2013 20:40	1	wak007.d	RTX-624 0.32 (mm)
ICIS 200-65930/8		12/12/2013 21:29	1	wak008.d	RTX-624 0.32 (mm)
IC 200-65930/9		12/12/2013 22:18	1	wak009.d	RTX-624 0.32 (mm)
IC 200-65930/10		12/12/2013 23:07	1	wak010.d	RTX-624 0.32 (mm)
IC 200-65930/11		12/12/2013 23:57	1	wak011.d	RTX-624 0.32 (mm)
VIBLK 200-65930/12		12/13/2013 00:46	1		RTX-624 0.32 (mm)
VIBLK 200-65930/13		12/13/2013 01:36	1		RTX-624 0.32 (mm)
ICV 200-65930/14		12/13/2013 02:26	1	wak014.d	RTX-624 0.32 (mm)
ZZZZZ		12/13/2013 03:16	1		RTX-624 0.32 (mm)
VIBLK 200-65930/16		12/13/2013 04:06	1		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-20258-1

SDG No.: 200-20258

Instrument ID: CHW.i Start Date: 01/03/2014 10:21

Analysis Batch Number: 66781 End Date: 01/04/2014 00:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-66781/1		01/03/2014 10:21	1	wako01.d	RTX-624 0.32 (mm)
CCVIS 200-66781/2		01/03/2014 11:30	1		RTX-624 0.32 (mm)
CCVIS 200-66781/15		01/03/2014 12:39	1	wako15.d	RTX-624 0.32 (mm)
MB 200-66781/3		01/03/2014 13:40	1	wako03.d	RTX-624 0.32 (mm)
LCS 200-66781/4		01/03/2014 14:30	1	wako04.d	RTX-624 0.32 (mm)
LCS 200-66781/5		01/03/2014 15:19	1	wakn05.d	RTX-624 0.32 (mm)
LCS 200-66781/6		01/03/2014 16:08	1	wakn06.d	RTX-624 0.32 (mm)
ZZZZZ		01/03/2014 18:29	0.4		RTX-624 0.32 (mm)
ZZZZZ		01/03/2014 19:17	99.1		RTX-624 0.32 (mm)
ZZZZZ		01/03/2014 20:05	256		RTX-624 0.32 (mm)
200-20258-1	SG-122313-SGP-01	01/03/2014 20:53	10	wakn10.d	RTX-624 0.32 (mm)
200-20258-2	AA-122313-SGP-01	01/03/2014 21:41	10	wakn11.d	RTX-624 0.32 (mm)
ZZZZZ		01/03/2014 22:31	1		RTX-624 0.32 (mm)
CCVC 200-66781/13		01/03/2014 23:20	1	wakn13.d	RTX-624 0.32 (mm)
CCVC 200-66781/14		01/04/2014 00:10	1	wakn14.d	RTX-624 0.32 (mm)

**ADQM DATA REVIEW
NARRATIVE**

Site POM – Pompton Lakes Works

Project EISB Monitoring 1/14

Project Reviewer Candia Carle

Sampling Date January 13 – 16, 20 – 24 and 27, 2014

Analytical Protocol

<u>Laboratory</u>	<u>Analytical Method</u>	<u>Parameter(s)</u>
Lancaster	EPA 300	Bromide
Lancaster	EPA 300	Chloride
Lancaster	RSK-175	Ethane, Ethene, Methane
Lancaster	EPA 300	Sulfate
Lancaster	SM 4500-S2 D-2000	Sulfide
Lancaster	SW 846 9060A	TOC
Lancaster	8260B 25 mL purge	Volatile organics
SiREM		Gene-Trac® VC, Vinyl Chloride Reductase (vcrA) Assay
Test America Burlington	TO-15 NJ LL SUMMA	Volatile organics

Sample Receipt

The following items are noted for this dataset:

- Assay samples were received at SiREM on January 27, 2014.
- Air samples were received at TAL Burlington on January 17, 2014 in satisfactory condition. The labels did not match the chain of custody. The lab logged the samples per the chain of custody.
- All remaining samples were received at Lancaster Labs on January 17 and 28, 2014 in satisfactory condition and within EPA temperature guidelines.
- Samples GW-011314IW02-UPPER and GW-011314IW03-UPPER were not recorded on the chain of custody. Lancaster logged per the container labels.
- Three samples were recorded on the chain with the incorrect collection date as part of the field sample ID. Corrected chains were submitted to the lab and the samples were logged with the correct date as part of the ID.
- The sulfide container for W-011514-ML04-3-FB did not match the chain of custody. The lab logged per the chain of custody.
- Line-outs on the chains were not both initialed and dated.
- Each of the seven coolers had a trip blank included. However, the trip blanks were all labeled with the same ID and after unpacking all coolers, the lab could not determine which TB was associated with which cooler. Only one TB was logged, analyzed and then associated with all samples in the lot when the DVM was run.

Data Review

The electronic data submitted for this project was reviewed via the automated DuPont Data Review (DDR) process via the EIM Data Validation Module (DVM). Overall the data is acceptable for use without qualification, except as noted below:

- Some of the analytical results have been qualified in the database. See the DuPont Data Review (DDR) Narrative Report for which samples were qualified, the specific reasons for qualification, and potential bias in reported results.
- Due to the lack of QC to be checked, the data from SiREM was not run through the DVM.

Attachments

The DDR Narrative report, SiREM lab reports, and the summary level TAL Burlington and Lancaster Labs reports are attached. The full deliverables provided by the labs, due to the large file size, are not attached but are stored on the server in the project folder.

DuPont In-House Review (DDR)

The DDR is an internal review process used by the ADQM group to assist with the determination of data usability. The electronic data deliverables received from the laboratory are loaded into the Locus EIM™ database and processed through a series of data quality checks, which are a combination of software (Locus EIM™ database Data Validation Module (DVM) and manual reviewer evaluations. The data is evaluated against the following data usability checks:

- Field and laboratory blank contamination
- US EPA hold time criteria
- Missing Quality Control (QC) samples
- Matrix spike(MS)/matrix spike duplicate (MSD) recoveries and the relative percent differences (RPDs) between these spikes
- Laboratory control sample(LCS)/control sample duplicate (LCSD) recoveries and the RPD between these spikes
- Surrogate spike recoveries for organic analyses
- RPD between field duplicate sample pairs
- RPD between laboratory replicates for inorganic analyses
- Difference / percent difference between total and dissolved sample pairs.

The DDR applies the following data evaluation qualifiers to analysis results, as warranted:

Qualifier	Definition
B	Not detected substantially above the level reported in the laboratory or field blanks.
R	Unusable result. Analyte may or may not be present in the sample.
J	Analyte present. Reported value may not be accurate or precise.
UJ	Not detected. Reporting limit may not be accurate or precise.

Please refer to the laboratory report for a description of the lab qualifiers.

DDR Narrative Report

Site: Pompton Lakes Works

Sampling Program: EISB Monitoring Program 1/14

Validation Options: LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit. The actual detection limits may be higher than reported.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-011514-ML02-2	01/15/2014	7341027	1,1,1-Trichloroethane	0.5	UG/L	MDL	0.5	2.5	UJ	8260B		5030B

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values higher than the upper control limit. The reported result may be biased high.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-011514-ML02-2	01/15/2014	7341027	trans-1,2-Dichloroethene	76	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-011514-ML04-3	01/15/2014	7341037	trans-1,2-Dichloroethene	95	UG/L	MDL	0.5	2.5	J	8260B		5030B

Site: Pompton Lakes Works

Sampling Program: EISB Monitoring Program 1/14

Validation Options: LABSTATS

Validation Reason Code: Associated MS and/or MSD analysis had relative percent recovery (RPR) values less than the lower control limit but above the rejection limit. The reported result may be biased low.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-011514-ML02-2	01/15/2014	7341027	1,1-Dichloroethane	1.2	UG/L	MDL	0.5	2.5	J	8260B		5030B

Validation Reason Code: The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-011314-IW01-LOWER	01/13/2014	7341019	1,1-Dichloroethane	3.4	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-011514-ML04-5	01/15/2014	7341045	Ethane	3.8	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-011514-ML04-5	01/15/2014	7341045	Ethene	4.7	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-011514-ML04-5	01/15/2014	7341045	1,1-Dichloroethane	1.6	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-011514-ML04-5	01/15/2014	7341045	1,1-Dichloroethene	1.9	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-011514-ML04-6	01/15/2014	7341031	1,1-Dichloroethene	0.4	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-011614-128-D	01/16/2014	7341042	1,1-Dichloroethane	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-011614-128-D	01/16/2014	7341042	1,1-Dichloroethene	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-011614-IW01-UPPER	01/16/2014	7341041	1,1-Dichloroethene	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-011614-ML04-2	01/16/2014	7341043	1,1,1-Trichloroethane	1.6	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-011614-ML04-7	01/16/2014	7341044	1,1-Dichloroethane	1.8	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-011614-ML04-7	01/16/2014	7341044	1,1-Dichloroethene	0.7	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-011614-ML04-7	01/16/2014	7341044	Trichloroethene	1.4	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-011514-ML02-2	01/15/2014	7341027	Sulfide	0.12	MG/L	MDL	0.054	0.16	J	4500-S2 D-2000		
GW-011514-ML02-2	01/15/2014	7341027	Ethane	3.1	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-011514-ML02-2	01/15/2014	7341027	Ethene	3.9	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-011514-ML02-2	01/15/2014	7341027	1,1-Dichloroethene	2.0	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-011514-ML02-7	01/15/2014	7341032	Ethane	4.6	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-011514-ML02-7	01/15/2014	7341032	1,1-Dichloroethene	0.4	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-011514-ML02-7	01/15/2014	7341032	Trichloroethene	0.2	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-011514-ML04-3	01/15/2014	7341037	Sulfate	1.9	MG/L	MDL	1.5	5.0	J	300.0		
GW-011314-IW01-LOWER	01/13/2014	7341019	1,1-Dichloroethene	4.1	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-011314-IW01-LOWER	01/13/2014	7341019	Trichloroethene	4.1	UG/L	MDL	1.0	5.0	J	8260B		5030B

Validation Reason Code: The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-011314-IW02-UPPER	01/13/2014	7341017	Ethane	3.5	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-011314-IW02-UPPER	01/13/2014	7341017	1,1-Dichloroethane	2.4	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-011314-IW02-UPPER	01/13/2014	7341017	1,1-Dichloroethene	3.1	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-011314-IW02-UPPER	01/13/2014	7341017	Trichloroethene	4.5	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-011314-IW03-UPPER	01/13/2014	7341018	1,1-Dichloroethene	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-011314-ML02-1	01/13/2014	7341021	Sulfide	0.075	MG/L	MDL	0.054	0.16	J	4500-S2 D-2000		
GW-011314-ML02-1	01/13/2014	7341021	1,1,1-Trichloroethane	0.1	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-011314-ML02-1	01/13/2014	7341021	Ethane	1.1	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-011414-EW01-LOWER	01/14/2014	7341046	Tetrachloroethene	1.0	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-011414-IW02-LOWER	01/14/2014	7341022	1,1-Dichloroethane	2.6	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-011414-IW02-LOWER	01/14/2014	7341022	1,1-Dichloroethene	3.5	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-011414-ML02-3	01/14/2014	7341025	Sulfide	0.12	MG/L	MDL	0.054	0.16	J	4500-S2 D-2000		
GW-011414-ML02-3	01/14/2014	7341025	Trichloroethene	0.9	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-011414-ML02-3-D	01/14/2014	7341026	Sulfide	0.11	MG/L	MDL	0.054	0.16	J	4500-S2 D-2000		
GW-011414-ML02-3-D	01/14/2014	7341026	Trichloroethene	0.9	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-011414-ML02-4	01/14/2014	7341024	Sulfate	4.9	MG/L	MDL	1.5	5.0	J	300.0		
GW-011414-ML02-5	01/14/2014	7341023	Ethane	4.6	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-011414-ML02-5	01/14/2014	7341023	1,1-Dichloroethane	2.4	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-011414-ML02-5	01/14/2014	7341023	Trichloroethene	1.3	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-011414-ML02-6	01/14/2014	7341047	Bromide	2.0	MG/L	MDL	2.0	2.5	J	300.0		
GW-011414-ML02-6	01/14/2014	7341047	Ethane	1.1	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-011414-ML02-6	01/14/2014	7341047	Ethene	1.5	UG/L	MDL	1.0	5.0	J	RSK-175		
GW-011414-ML02-6	01/14/2014	7341047	1,1-Dichloroethane	0.8	UG/L	MDL	0.5	2.5	J	8260B		5030B

Validation Reason Code: The result is estimated since the concentration is between the method detection limit and practical quantitation limit.

Field Sample ID	Date Sampled	Lab Sample ID	Analyte	Result	Units	Type	MDL	PQL	Validation Qualifier	Analytical Method	Pre-prep	Prep
GW-011414-ML02-6	01/14/2014	7341047	1,1-Dichloroethene	1.6	UG/L	MDL	0.5	2.5	J	8260B		5030B
GW-011514-128-I	01/15/2014	7341033	Trichloroethene	2.4	UG/L	MDL	1.0	5.0	J	8260B		5030B
GW-011514-128S	01/15/2014	7341035	1,2-Dichloroethane	0.3	UG/L	MDL	0.1	0.5	J	8260B		5030B
GW-011514-128S-D	01/15/2014	7341036	1,2-Dichloroethane	0.3	UG/L	MDL	0.1	0.5	J	8260B		5030B

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

January 30, 2014

Project: POM - EISB MONITORING PROGRAM

Submission Date: 01/17/2014
Group Number: 1446969
SDG: POM06
PO Number: LBIO-66380
State of Sample Origin: NJ

Client Sample Description

Lancaster Labs (LL) #

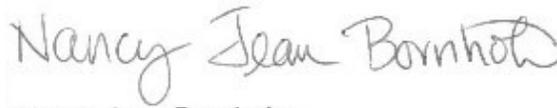
GW-011314-ML04-1 Groundwater	7341016
GW-011314-IW02-UPPER Groundwater	7341017
GW-011314-IW03-UPPER Groundwater	7341018
GW-011314-IW01-LOWER Groundwater	7341019
GW-011314-IW03-LOWER Groundwater	7341020
GW-011314-ML02-1 Groundwater	7341021
GW-011414-IW02-LOWER Groundwater	7341022
GW-011414-ML02-5 Groundwater	7341023
GW-011414-ML02-4 Groundwater	7341024
GW-011414-ML02-3 Groundwater	7341025
GW-011414-ML02-3-D Groundwater	7341026
GW-011514-ML02-2 Groundwater	7341027
GW-011514-ML02-2 MS Groundwater	7341028
GW-011514-ML02-2 MSD Groundwater	7341029
GW-011514-ML02-2 Dupl Groundwater	7341030
GW-011514-ML04-6 Groundwater	7341031
GW-011514-ML02-7 Groundwater	7341032
GW-011514-128-I Groundwater	7341033
GW-011514-ML04-4 Groundwater	7341034
GW-011514-128S Groundwater	7341035
GW-011514-128S-D Groundwater	7341036
GW-011514-ML04-3 Groundwater	7341037
GW-011514-ML04-3 MS Groundwater	7341038
GW-011514-ML04-3 MSD Groundwater	7341039
GW-011514-ML04-3 Dupl Groundwater	7341040
GW-011614-IW01-UPPER Groundwater	7341041
GW-011614-128-D Groundwater	7341042
GW-011614-ML04-2 Groundwater	7341043
GW-011614-ML04-7 Groundwater	7341044
GW-011514-ML04-5 Groundwater	7341045

GW-011414-EW01-LOWER Groundwater	7341046
GW-011414-ML02-6 Groundwater	7341047
W-011514-ML04-3-FB Blank Water	7341048
W-011314-ML04-1-FB Blank Water	7341049
W-011414-ML02-5 Blank Water	7341050
W-011614-ML04-7-FB Blank Water	7341051
W-011614-ML04-7-TB Blank Water	7341052

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

1 COPY TO Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: GW-011314-ML04-1 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341016
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/13/2014 10:52 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK01 SDG#: POM06-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	6.1		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	2.3		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	8.3		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	4.5		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1
Wet Chemistry EPA 300.0							
01505	Bromide	24959-67-9	20.0 U		20.0	25.0	50
Reporting limits were raised due to interference from the sample matrix.							
00224	Chloride	16887-00-6	3,290		200	400	1000
00228	Sulfate	14808-79-8	34.1		1.5	5.0	5
SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	1.2		0.50	1.0	1
The reported result is the average of the following trials:							
	1.366	mg/l					
	1.141	mg/l					
	1.225	mg/l					
	1.116	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140211AA	01/21/2014 13:16	Jason M Long	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140211AA	01/21/2014 13:16	Jason M Long	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140240016A	01/24/2014 16:34	Nicholas R Rossi	1
01505	Bromide	EPA 300.0	1	14020347601A	01/20/2014 11:05	Sandra J Miller	50

*=This limit was used in the evaluation of the final result

Sample Description: GW-011314-ML04-1 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341016
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/13/2014 10:52 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK01 SDG#: POM06-01

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
00224	Chloride	EPA 300.0	1	14020347601A	01/21/2014	09:36	Sandra J Miller	1000
00228	Sulfate	EPA 300.0	1	14020347601A	01/20/2014	10:49	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14020237301A	01/20/2014	15:55	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: **GW-011314-IW02-UPPER Groundwater**
EISB MONITORING PROGRAM 2014

LL Sample # **WW 7341017**
LL Group # **1446969**
Account # **07032**

Project Name: **POM - EISB MONITORING PROGRAM**

Collected: 01/13/2014 12:28 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK02 SDG#: POM06-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	1.0 U		1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	2.4 J		1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U		1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	3.1 J		1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	530		10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	160		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	1.0 U		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U		1.0	5.0	10
02898	Trichloroethene	79-01-6	4.5 J		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	93		1.0	5.0	10
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	3.5 J		1.0	5.0	1
07105	Ethene	74-85-1	5.0		1.0	5.0	1
07105	Methane	74-82-8	580		15	25	5
Wet Chemistry SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	13.1		0.50	1.0	1
The reported result is the average of the following trials:							
	12.922	mg/l					
	12.592	mg/l					
	13.437	mg/l					
	13.544	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140211AA	01/21/2014 14:20	Jason M Long	100
	purge						
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140231AA	01/23/2014 14:58	Jason M Long	10
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140211AA	01/21/2014 14:20	Jason M Long	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140231AA	01/23/2014 14:58	Jason M Long	10
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140240016A	01/24/2014 16:52	Nicholas R Rossi	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140240016A	01/24/2014 23:50	Nicholas R Rossi	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14020237301A	01/20/2014 16:29	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: **GW-011314-IW03-UPPER Groundwater**
EISB MONITORING PROGRAM 2014

LL Sample # **WW 7341018**
LL Group # **1446969**
Account # **07032**

Project Name: **POM - EISB MONITORING PROGRAM**

Collected: 01/13/2014 13:27 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK03 SDG#: POM06-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	20		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	8.0		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	12		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	15		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	1.4		0.1	0.5	1
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	59		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	530		15	25	5
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	1.4		0.50	1.0	1
	The reported result is the average of the following trials:						
	1.485	mg/l					
	1.4	mg/l					
	1.255	mg/l					
	1.31	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140211AA	01/21/2014 14:41	Jason M Long	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140211AA	01/21/2014 14:41	Jason M Long	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140240016A	01/24/2014 17:46	Nicholas R Rossi	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140240016A	01/25/2014 00:09	Nicholas R Rossi	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14020237301A	01/20/2014 17:19	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011314-IW01-LOWER Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341019
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/13/2014 14:42 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK04 SDG#: POM06-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	3.4 J	1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U	1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	4.1 J	1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	650	10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	190	1.0	5.0	10
02898	Tetrachloroethene	127-18-4	1.0 U	1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U	1.0	5.0	10
02898	Trichloroethene	79-01-6	4.1 J	1.0	5.0	10
02898	Vinyl Chloride	75-01-4	150	1.0	5.0	10
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	6.8	1.0	5.0	1
07105	Ethene	74-85-1	21	1.0	5.0	1
07105	Methane	74-82-8	950	15	25	5
Wet Chemistry						
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	7.8	0.50	1.0	1
	The reported result is the average of the following trials:					
	7.303	mg/l				
	7.858	mg/l				
	7.592	mg/l				
	8.35	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140211AA	01/21/2014 15:46	Jason M Long	100
		purge					
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140231AA	01/23/2014 15:19	Jason M Long	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140211AA	01/21/2014 15:46	Jason M Long	100
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140231AA	01/23/2014 15:19	Jason M Long	10
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140240016A	01/24/2014 18:04	Nicholas R Rossi	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140240016A	01/25/2014 00:28	Nicholas R Rossi	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14020237301A	01/20/2014 17:52	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: **GW-011314-IW03-LOWER Groundwater**
EISB MONITORING PROGRAM 2014

LL Sample # **WW 7341020**
LL Group # **1446969**
Account # **07032**

Project Name: **POM - EISB MONITORING PROGRAM**

Collected: 01/13/2014 15:08 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK05 SDG#: POM06-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	3.5		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	3.6		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	410		10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	67		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	1		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	190		1.0	5.0	10
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	5.6		1.0	5.0	1
07105	Ethene	74-85-1	96		1.0	5.0	1
07105	Methane	74-82-8	920		15	25	5
Wet Chemistry							
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	29.1		0.50	1.0	1
	The reported result is the average of the following trials:						
	28.202	mg/l					
	29.807	mg/l					
	30.025	mg/l					
	28.201	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140231AA	01/23/2014 15:40	Jason M Long	1
	purge						
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140231AA	01/23/2014 16:01	Jason M Long	10
	purge						
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 12:24	Jason M Long	100
	purge						
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140231AA	01/23/2014 15:40	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140231AA	01/23/2014 16:01	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	3	I140241AA	01/24/2014 12:24	Jason M Long	100
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140240016A	01/24/2014 18:22	Nicholas R Rossi	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011314-IW03-LOWER Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341020
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/13/2014 15:08 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK05 SDG#: POM06-05

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140240016A	01/25/2014 00:47	Nicholas R Rossi	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14020237301A	01/20/2014 18:26	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011314-ML02-1 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341021
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/13/2014 16:17 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK06 SDG#: POM06-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.5 J		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.7		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	80		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	30		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	12		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 J		0.1	0.5	1
02898	Trichloroethene	79-01-6	13		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	21		0.1	0.5	1
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.1 J		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	90		3.0	5.0	1
Wet Chemistry							
	EPA 300.0		mg/l		mg/l	mg/l	
01505	Bromide	24959-67-9	2.0 U		2.0	2.5	5
00224	Chloride	16887-00-6	57.3		4.0	8.0	20
00228	Sulfate	14808-79-8	23.3		1.5	5.0	5
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	1.6		0.50	1.0	1
	The reported result is the average of the following trials:						
	1.737	mg/l					
	1.706	mg/l					
	1.56	mg/l					
	1.355	mg/l					
	SM 4500-S2 D-2000		mg/l		mg/l	mg/l	
00230	Sulfide	18496-25-8	0.075 J		0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140231AA	01/23/2014 16:23	Jason M Long	1
		purge					
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140231AA	01/23/2014 16:44	Jason M Long	10
		purge					

*=This limit was used in the evaluation of the final result

Sample Description: GW-011314-ML02-1 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341021
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/13/2014 16:17 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK06 SDG#: POM06-06

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140231AA	01/23/2014	16:23	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140231AA	01/23/2014	16:44	Jason M Long	10
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140240016A	01/24/2014	18:40	Nicholas R Rossi	1
01505	Bromide	EPA 300.0	1	14020347601A	01/20/2014	11:21	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601A	01/21/2014	09:52	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	14020347601A	01/20/2014	11:21	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14020237301A	01/20/2014	19:16	Joseph E McKenzie	1
00230	Sulfide	SM 4500-S2 D-2000	1	14020023001A	01/20/2014	09:10	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: **GW-011414-IW02-LOWER Groundwater**
EISB MONITORING PROGRAM 2014

LL Sample # **WW 7341022**
LL Group # **1446969**
Account # **07032**

Project Name: **POM - EISB MONITORING PROGRAM**

Collected: 01/14/2014 10:03 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK07 SDG#: POM06-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	1.0 U		1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	2.6 J		1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U		1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	3.5 J		1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	580		10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	190		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	1.0 U		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U		1.0	5.0	10
02898	Trichloroethene	79-01-6	6.6		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	110		1.0	5.0	10
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	5.0		1.0	5.0	1
07105	Ethene	74-85-1	9.5		1.0	5.0	1
07105	Methane	74-82-8	770		15	25	5
Wet Chemistry SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	18.0		0.50	1.0	1
The reported result is the average of the following trials:							
		16.745	mg/l				
		17.983	mg/l				
		18.557	mg/l				
		18.774	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140231AA	01/23/2014 17:05	Jason M Long	10
		purge					
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140231AA	01/23/2014 17:26	Jason M Long	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140231AA	01/23/2014 17:05	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140231AA	01/23/2014 17:26	Jason M Long	100
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014 03:08	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014 16:45	Elizabeth J Marin	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14020237301A	01/20/2014 19:50	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011414-ML02-5 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341023
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/14/2014 11:37 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK08 SDG#: POM06-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	2.4 J		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	3.5		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	590		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	180		5.0	25	50
02898	Tetrachloroethene	127-18-4	0.5 U		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U		0.5	2.5	5
02898	Trichloroethene	79-01-6	1.3 J		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	110		0.5	2.5	5
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	4.6 J		1.0	5.0	1
07105	Ethene	74-85-1	6.6		1.0	5.0	1
07105	Methane	74-82-8	870		15	25	5
Wet Chemistry EPA 300.0							
01505	Bromide	24959-67-9	8.8		2.0	2.5	5
00224	Chloride	16887-00-6	45.6		4.0	8.0	20
00228	Sulfate	14808-79-8	1.5 U		1.5	5.0	5
SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	32.6		0.50	1.0	1
The reported result is the average of the following trials:							
	33.454	mg/l					
	32.812	mg/l					
	31	mg/l					
	32.989	mg/l					
SM 4500-S2 D-2000							
00230	Sulfide	18496-25-8	0.054 U		0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140231AA	01/23/2014 17:47	Jason M Long	5
		purge					
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140231AA	01/23/2014 18:09	Jason M Long	50
		purge					

*=This limit was used in the evaluation of the final result

Sample Description: GW-011414-ML02-5 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341023
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/14/2014 11:37 by GN

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4051 Ogletown Road, Suite 300
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Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK08 SDG#: POM06-08

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140231AA	01/23/2014	17:47	Jason M Long	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140231AA	01/23/2014	18:09	Jason M Long	50
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	03:27	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	17:03	Elizabeth J Marin	5
01505	Bromide	EPA 300.0	1	14020347601A	01/20/2014	12:10	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601A	01/20/2014	12:26	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	14020347601A	01/20/2014	12:10	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14020237301A	01/20/2014	20:41	Joseph E McKenzie	1
00230	Sulfide	SM 4500-S2 D-2000	1	14020023001A	01/20/2014	09:10	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011414-ML02-4 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341024
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/14/2014 13:47 by GN

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URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK09 SDG#: POM06-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	3.2		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.6		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	83		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	110		1.0	5.0	10
02898	Tetrachloroethene	127-18-4	1.1		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	3.8		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	77		1.0	5.0	10
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	5.1		1.0	5.0	1
07105	Ethene	74-85-1	210		1.0	5.0	1
07105	Methane	74-82-8	850		15	25	5
Wet Chemistry EPA 300.0							
01505	Bromide	24959-67-9	9.6		2.0	2.5	5
00224	Chloride	16887-00-6	52.6		4.0	8.0	20
00228	Sulfate	14808-79-8	4.9 J		1.5	5.0	5
SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	8.6		0.50	1.0	1
The reported result is the average of the following trials:							
	8.521	mg/l					
	8.695	mg/l					
	8.277	mg/l					
	8.716	mg/l					
SM 4500-S2 D-2000							
00230	Sulfide	18496-25-8	0.20		0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140231AA	01/23/2014 18:30	Jason M Long	1
		purge					
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140231AA	01/23/2014 18:51	Jason M Long	10
		purge					

*=This limit was used in the evaluation of the final result

Sample Description: GW-011414-ML02-4 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341024
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/14/2014 13:47 by GN

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Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK09 SDG#: POM06-09

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140231AA	01/23/2014	18:30	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140231AA	01/23/2014	18:51	Jason M Long	10
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	03:45	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	17:21	Elizabeth J Marin	5
01505	Bromide	EPA 300.0	1	14020347601A	01/20/2014	12:42	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601A	01/21/2014	10:08	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	14020347601A	01/20/2014	12:42	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14020237301A	01/20/2014	21:15	Joseph E McKenzie	1
00230	Sulfide	SM 4500-S2 D-2000	1	14020023001A	01/20/2014	09:10	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011414-ML02-3 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341025
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/14/2014 14:55 by GN

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URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK10 SDG#: POM06-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	2.6		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	2.8		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	340		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	5.6		0.5	2.5	5
02898	Tetrachloroethene	127-18-4	0.5 U		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U		0.5	2.5	5
02898	Trichloroethene	79-01-6	0.9 J		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	270		5.0	25	50
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	5.2		1.0	5.0	1
07105	Ethene	74-85-1	92		1.0	5.0	1
07105	Methane	74-82-8	3,100		60	100	20
Wet Chemistry							
	EPA 300.0		mg/l		mg/l	mg/l	
01505	Bromide	24959-67-9	9.2		2.0	2.5	5
00224	Chloride	16887-00-6	48.2		4.0	8.0	20
00228	Sulfate	14808-79-8	1.5 U		1.5	5.0	5
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	54.7		0.50	1.0	1
	The reported result is the average of the following trials:						
	56.224	mg/l					
	53.551	mg/l					
	54.533	mg/l					
	54.339	mg/l					
	SM 4500-S2 D-2000		mg/l		mg/l	mg/l	
00230	Sulfide	18496-25-8	0.12 J		0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 12:45	Jason M Long	5
		purge					
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 13:06	Jason M Long	50
		purge					

*=This limit was used in the evaluation of the final result

Sample Description: GW-011414-ML02-3 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341025
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/14/2014 14:55 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK10 SDG#: POM06-10

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140241AA	01/24/2014	12:45	Jason M Long	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140241AA	01/24/2014	13:06	Jason M Long	50
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	04:03	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	17:39	Elizabeth J Marin	20
01505	Bromide	EPA 300.0	1	14020347601A	01/20/2014	12:58	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601A	01/21/2014	10:25	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	14020347601A	01/20/2014	12:58	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14021237301A	01/21/2014	13:21	Joseph E McKenzie	1
00230	Sulfide	SM 4500-S2 D-2000	1	14020023001A	01/20/2014	09:10	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011414-ML02-3-D Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341026
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/14/2014 14:55 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK11 SDG#: POM06-11FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles			SW-846 8260B 25mL	ug/l	ug/l	ug/l	
			purge				
02898	Carbon Tetrachloride	56-23-5	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	2.6		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	2.7		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	350		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	5.5		0.5	2.5	5
02898	Tetrachloroethene	127-18-4	0.5 U		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U		0.5	2.5	5
02898	Trichloroethene	79-01-6	0.9 J		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	280		5.0	25	50
GC Miscellaneous			RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	5.4		1.0	5.0	1
07105	Ethene	74-85-1	96		1.0	5.0	1
07105	Methane	74-82-8	2,700		60	100	20
Wet Chemistry			EPA 300.0	mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	9.2		2.0	2.5	5
00224	Chloride	16887-00-6	48.4		4.0	8.0	20
00228	Sulfate	14808-79-8	1.5 U		1.5	5.0	5
			SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	53.6		0.50	1.0	1
The reported result is the average of the following trials:							
53.04 mg/l							
54.385 mg/l							
53.617 mg/l							
53.272 mg/l							
			SM 4500-S2 D-2000	mg/l	mg/l	mg/l	
00230	Sulfide	18496-25-8	0.11 J		0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 13:28	Jason M Long	5
		purge					
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 13:49	Jason M Long	50
		purge					

*=This limit was used in the evaluation of the final result

Sample Description: GW-011414-ML02-3-D Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341026
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/14/2014 14:55 by GN

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URS Corporation
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4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK11 SDG#: POM06-11FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140241AA	01/24/2014	13:28	Jason M Long	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140241AA	01/24/2014	13:49	Jason M Long	50
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	04:22	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	17:57	Elizabeth J Marin	20
01505	Bromide	EPA 300.0	1	14020347601A	01/20/2014	13:15	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601A	01/21/2014	11:13	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	14020347601A	01/20/2014	13:15	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14021237301A	01/21/2014	13:55	Joseph E McKenzie	1
00230	Sulfide	SM 4500-S2 D-2000	1	14020023001A	01/20/2014	09:10	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML02-2 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341027
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 10:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK12 SDG#: POM06-12BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	1.2 J		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	2.0 J		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	300		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	76		0.5	2.5	5
02898	Tetrachloroethene	127-18-4	2.6		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U		0.5	2.5	5
02898	Trichloroethene	79-01-6	4.3		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	77		0.5	2.5	5
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	3.1 J		1.0	5.0	1
07105	Ethene	74-85-1	3.9 J		1.0	5.0	1
07105	Methane	74-82-8	340		3.0	5.0	1
Wet Chemistry							
	EPA 300.0		mg/l		mg/l	mg/l	
01505	Bromide	24959-67-9	4.2		2.0	2.5	5
00224	Chloride	16887-00-6	343		20.0	40.0	100
00228	Sulfate	14808-79-8	13.2		1.5	5.0	5
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	4.2		0.50	1.0	1
	The reported result is the average of the following trials:						
	4.212	mg/l					
	4.12	mg/l					
	4.435	mg/l					
	4.171	mg/l					
	SM 4500-S2 D-2000		mg/l		mg/l	mg/l	
00230	Sulfide	18496-25-8	0.12 J		0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 10:38	Jason M Long	5
		purge					
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 11:42	Jason M Long	50
		purge					

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML02-2 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341027
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 10:15 by GN

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Reported: 01/30/2014 11:07

PLK12 SDG#: POM06-12BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140241AA	01/24/2014	10:38	Jason M Long	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140241AA	01/24/2014	11:42	Jason M Long	50
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	04:58	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	14020347601A	01/20/2014	09:12	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601A	01/21/2014	04:52	Sandra J Miller	100
00228	Sulfate	EPA 300.0	1	14020347601A	01/20/2014	09:12	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14020237301A	01/20/2014	21:50	Joseph E McKenzie	1
00230	Sulfide	SM 4500-S2 D-2000	1	14020023001A	01/20/2014	09:10	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML02-2 MS Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341028
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 10:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK12 SDG#: POM06-12MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles						
	SW-846 8260B 25mL		ug/l	ug/l	ug/l	
	purge					
02898	Carbon Tetrachloride	56-23-5	21	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	23	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	23	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	23	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	300	E 0.5	2.5	5
02898	trans-1,2-Dichloroethene	156-60-5	100	0.5	2.5	5
02898	Tetrachloroethene	127-18-4	24	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	21	0.5	2.5	5
02898	Trichloroethene	79-01-6	28	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	97	0.5	2.5	5
GC Miscellaneous						
	RSKSOP-175 modified		ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	53	1.0	5.0	1
07105	Ethene	74-85-1	56	1.0	5.0	1
07105	Methane	74-82-8	340	3.0	5.0	1
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	51.4	4.0	5.0	10
00224	Chloride	16887-00-6	541	20.0	40.0	100
00228	Sulfate	14808-79-8	64.3	3.0	10.0	10
	SW-846 9060A		mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	14.5	0.50	1.0	1
	The reported result is the average of the following trials:					
	14.181	mg/l				
	15.561	mg/l				
	14.139	mg/l				
	14.249	mg/l				
	SM 4500-S2 D-2000		mg/l	mg/l	mg/l	
00230	Sulfide	18496-25-8	0.62	0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 10:59	Jason M Long	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140241AA	01/24/2014 10:59	Jason M Long	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML02-2 MS Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341028
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 10:15 by GN

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Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK12 SDG#: POM06-12MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	05:17	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	14020347601A	01/20/2014	10:17	Sandra J Miller	10
00224	Chloride	EPA 300.0	1	14020347601A	01/20/2014	10:33	Sandra J Miller	100
00228	Sulfate	EPA 300.0	1	14020347601A	01/20/2014	10:17	Sandra J Miller	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14020237301A	01/20/2014	22:41	Joseph E McKenzie	1
00230	Sulfide	SM 4500-S2 D-2000	1	14020023001A	01/20/2014	09:10	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML02-2 MSD Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341029
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 10:15 by GN

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URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK12 SDG#: POM06-12MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	22	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	24	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	24	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	25	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	320	E 0.5	2.5	5
02898	trans-1,2-Dichloroethene	156-60-5	110	0.5	2.5	5
02898	Tetrachloroethene	127-18-4	26	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	22	0.5	2.5	5
02898	Trichloroethene	79-01-6	29	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	100	0.5	2.5	5
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	62	1.0	5.0	1
07105	Ethene	74-85-1	68	1.0	5.0	1
07105	Methane	74-82-8	350	3.0	5.0	1
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	14.0	0.50	1.0	1
The reported result is the average of the following trials:						
	13.76	mg/l				
	14.034	mg/l				
	14.138	mg/l				
	13.912	mg/l				
SM 4500-S2 D-2000						
00230	Sulfide	18496-25-8	0.63	0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 11:21	Jason M Long	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140241AA	01/24/2014 11:21	Jason M Long	5
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014 05:35	Elizabeth J Marin	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14020237301A	01/20/2014 23:15	Joseph E McKenzie	1
00230	Sulfide	SM 4500-S2 D-2000	1	14020023001A	01/20/2014 09:10	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML02-2 Dupl Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341030
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 10:15 by GN

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URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK12 SDG#: POM06-12DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	4.2	2.0	2.5	5
00224	Chloride	16887-00-6	353	20.0	40.0	100
00228	Sulfate	14808-79-8	12.7	1.5	5.0	5
	SM 4500-S2 D-2000		mg/l	mg/l	mg/l	
00230	Sulfide	18496-25-8	0.13 J	0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14020347601A	01/20/2014 09:44	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601A	01/21/2014 05:08	Sandra J Miller	100
00228	Sulfate	EPA 300.0	1	14020347601A	01/20/2014 09:44	Sandra J Miller	5
00230	Sulfide	SM 4500-S2 D-2000	1	14020023001A	01/20/2014 09:10	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML04-6 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341031
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 10:42 by GN

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URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK13 SDG#: POM06-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.4 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	27		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	18		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	20		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	23		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	1.1		0.1	0.5	1
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1
Wet Chemistry							
	EPA 300.0		mg/l		mg/l	mg/l	
01505	Bromide	24959-67-9	2.0 U		2.0	2.5	5
00224	Chloride	16887-00-6	20.9		1.0	2.0	5
00228	Sulfate	14808-79-8	46.1		1.5	5.0	5
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	2.1		0.50	1.0	1
	The reported result is the average of the following trials:						
	2.188	mg/l					
	2.074	mg/l					
	2.242	mg/l					
	1.999	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 14:11	Jason M Long	1
		purge					
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 14:33	Jason M Long	10
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140241AA	01/24/2014 14:11	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140241AA	01/24/2014 14:33	Jason M Long	10

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML04-6 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341031
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 10:42 by GN

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Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK13 SDG#: POM06-13

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	05:53	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	14020347601A	01/20/2014	13:31	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601A	01/20/2014	13:31	Sandra J Miller	5
00228	Sulfate	EPA 300.0	1	14020347601A	01/20/2014	13:31	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14021237301A	01/21/2014	14:45	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML02-7 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341032
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 11:41 by GN

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URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK14 SDG#: POM06-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	1.1		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.4 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	57		1.0	5.0	10
02898	trans-1,2-Dichloroethene	156-60-5	3.9		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.2 J		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	120		1.0	5.0	10
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	4.6 J		1.0	5.0	1
07105	Ethene	74-85-1	17		1.0	5.0	1
07105	Methane	74-82-8	2,800		60	100	20
Wet Chemistry EPA 300.0							
01505	Bromide	24959-67-9	4.0		2.0	2.5	5
00224	Chloride	16887-00-6	57.4		4.0	8.0	20
00228	Sulfate	14808-79-8	10.5		1.5	5.0	5
SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	31.6		0.50	1.0	1
The reported result is the average of the following trials:							
	30.4	mg/l					
	33.116	mg/l					
	30.03	mg/l					
	32.729	mg/l					
SM 4500-S2 D-2000							
00230	Sulfide	18496-25-8	0.28		0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 14:54	Jason M Long	1
		purge					
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 15:15	Jason M Long	10
		purge					

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML02-7 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341032
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 11:41 by GN

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URS Corporation
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4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK14 SDG#: POM06-14

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140241AA	01/24/2014	14:54	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140241AA	01/24/2014	15:15	Jason M Long	10
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	06:12	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	18:15	Elizabeth J Marin	20
01505	Bromide	EPA 300.0	1	14020347601A	01/20/2014	13:47	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601A	01/21/2014	11:29	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	14020347601A	01/20/2014	13:47	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14021237301A	01/21/2014	15:19	Joseph E McKenzie	1
00230	Sulfide	SM 4500-S2 D-2000	1	14020023001A	01/20/2014	09:10	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-128-I Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341033
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 13:42 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK15 SDG#: POM06-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	1.0 U		1.0	5.0	10
02898	1,1-Dichloroethane	75-34-3	6.7		1.0	5.0	10
02898	1,2-Dichloroethane	107-06-2	1.0 U		1.0	5.0	10
02898	1,1-Dichloroethene	75-35-4	7.2		1.0	5.0	10
02898	cis-1,2-Dichloroethene	156-59-2	1,100		10	50	100
02898	trans-1,2-Dichloroethene	156-60-5	270		10	50	100
02898	Tetrachloroethene	127-18-4	1.0 U		1.0	5.0	10
02898	1,1,1-Trichloroethane	71-55-6	1.0 U		1.0	5.0	10
02898	Trichloroethene	79-01-6	2.4 J		1.0	5.0	10
02898	Vinyl Chloride	75-01-4	190		1.0	5.0	10
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	8.2		1.0	5.0	1
07105	Ethene	74-85-1	5.9		1.0	5.0	1
07105	Methane	74-82-8	1,200		30	50	10
Wet Chemistry EPA 300.0							
01505	Bromide	24959-67-9	2.0 U		2.0	2.5	5
00224	Chloride	16887-00-6	91.6		5.0	10.0	25
00228	Sulfate	14808-79-8	34.6		1.5	5.0	5
SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	6.7		0.50	1.0	1
The reported result is the average of the following trials:							
	6.722	mg/l					
	6.73	mg/l					
	6.828	mg/l					
	6.385	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 15:36	Jason M Long	10
		purge					
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 15:58	Jason M Long	100
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140241AA	01/24/2014 15:36	Jason M Long	10
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140241AA	01/24/2014 15:58	Jason M Long	100

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-128-I Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341033
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 13:42 by GN

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Newark DE 19713

Submitted: 01/17/2014 20:11

Reported: 01/30/2014 11:07

PLK15 SDG#: POM06-15

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	06:30	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	18:33	Elizabeth J Marin	10
01505	Bromide	EPA 300.0	1	14020347601A	01/20/2014	14:03	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601A	01/21/2014	11:45	Sandra J Miller	25
00228	Sulfate	EPA 300.0	1	14020347601A	01/20/2014	14:03	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14021237301A	01/21/2014	15:52	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML04-4 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341034
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 14:28 by GN

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4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK16 SDG#: POM06-16

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014 06:48	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014 18:51	Elizabeth J Marin	5
01505	Bromide	EPA 300.0	1	14020347601B	01/20/2014 15:40	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601B	01/20/2014 15:56	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	14020347601B	01/20/2014 15:40	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14021237301A	01/21/2014 16:43	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-128S Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341035
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 14:51 by GN

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4051 Ogletown Road, Suite 300
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Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK17 SDG#: POM06-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles			SW-846 8260B 25mL	ug/l	ug/l	ug/l	
			purge				
02898	Carbon Tetrachloride	56-23-5	0.1 U	U	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U	U	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.3 J	J	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U	U	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	4.8		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	2.6		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	8.0		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U	U	0.1	0.5	1
02898	Trichloroethene	79-01-6	7.5		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U	U	0.1	0.5	1
GC Miscellaneous			RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U	U	1.0	5.0	1
07105	Ethene	74-85-1	1.0 U	U	1.0	5.0	1
07105	Methane	74-82-8	3.0 U	U	3.0	5.0	1
Wet Chemistry			EPA 300.0	mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	2.0 U	U	2.0	2.5	5
00224	Chloride	16887-00-6	606		40.0	80.0	200
00228	Sulfate	14808-79-8	27.0		1.5	5.0	5
			SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	3.2		0.50	1.0	1
The reported result is the average of the following trials:							
3.49 mg/l							
3.166 mg/l							
3.313 mg/l							
2.937 mg/l							

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL purge	1	I140241AA	01/24/2014 17:01	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140241AA	01/24/2014 17:01	Jason M Long	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014 07:07	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	14020347601B	01/20/2014 16:12	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601B	01/21/2014 12:50	Sandra J Miller	200

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-128S Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341035
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 14:51 by GN

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Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK17 SDG#: POM06-17

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00228	Sulfate	EPA 300.0	1	14020347601B	01/20/2014 16:12	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14021237301A	01/21/2014 17:17	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-128S-D Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341036
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 14:51 by GN

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4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK18 SDG#: POM06-18FD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles			SW-846 8260B 25mL	ug/l	ug/l	ug/l	
			purge				
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.3 J		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	5.0		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	2.7		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	8.3		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	8.0		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC Miscellaneous			RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1
Wet Chemistry			EPA 300.0	mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	2.0 U		2.0	2.5	5
00224	Chloride	16887-00-6	600		40.0	80.0	200
00228	Sulfate	14808-79-8	26.6		1.5	5.0	5
			SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	3.3		0.50	1.0	1
The reported result is the average of the following trials:							
	3.496	mg/l					
	3.181	mg/l					
	3.321	mg/l					
	3.307	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL purge	1	I140241AA	01/24/2014 17:44	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140241AA	01/24/2014 17:44	Jason M Long	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140280018A	01/29/2014 01:19	Nicholas R Rossi	1
01505	Bromide	EPA 300.0	1	14020347601B	01/20/2014 16:45	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601B	01/21/2014 13:06	Sandra J Miller	200

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-128S-D Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341036
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 14:51 by GN

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Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK18 SDG#: POM06-18FD

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
00228	Sulfate	EPA 300.0	1	14020347601B	01/20/2014	16:45	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14021237301A	01/21/2014	18:09	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML04-3 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341037
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 16:15 by GN

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Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK19 SDG#: POM06-19BKG

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.5	U	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	3.1		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5	U	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	3.8		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	650		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	95		0.5	2.5	5
02898	Tetrachloroethene	127-18-4	0.5	U	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5	U	0.5	2.5	5
02898	Trichloroethene	79-01-6	8.9		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	280		5.0	25	50
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	6.3		1.0	5.0	1
07105	Ethene	74-85-1	25		1.0	5.0	1
07105	Methane	74-82-8	890		15	25	5
Wet Chemistry EPA 300.0							
01505	Bromide	24959-67-9	21.7		2.0	2.5	5
00224	Chloride	16887-00-6	56.0		4.0	8.0	20
00228	Sulfate	14808-79-8	1.9	J	1.5	5.0	5
SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	12.9		0.50	1.0	1
The reported result is the average of the following trials:							
	12.892	mg/l					
	13.188	mg/l					
	12.045	mg/l					
	13.277	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140271AA	01/27/2014 12:57	Kerri E Legerlotz	5
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140271AA	01/27/2014 14:00	Kerri E Legerlotz	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140271AA	01/27/2014 12:57	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140271AA	01/27/2014 14:00	Kerri E Legerlotz	50

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML04-3 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341037
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 16:15 by GN

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Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK19 SDG#: POM06-19BKG

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140280018A	01/29/2014	01:55	Nicholas R Rossi	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140280018A	01/29/2014	10:15	Nicholas R Rossi	5
01505	Bromide	EPA 300.0	1	14020347601B	01/20/2014	14:19	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601B	01/21/2014	12:02	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	14020347601B	01/20/2014	14:19	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14021237301A	01/21/2014	18:43	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML04-3 MS Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341038
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 16:15 by GN

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URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK19 SDG#: POM06-19MS

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	26	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	28	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	24	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	31	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	600	E 0.5	2.5	5
02898	trans-1,2-Dichloroethene	156-60-5	130	E 0.5	2.5	5
02898	Tetrachloroethene	127-18-4	27	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	25	0.5	2.5	5
02898	Trichloroethene	79-01-6	37	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	270	E 0.5	2.5	5
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	61	1.0	5.0	1
07105	Ethene	74-85-1	92	1.0	5.0	1
07105	Methane	74-82-8	740	E 3.0	5.0	1
Wet Chemistry EPA 300.0						
01505	Bromide	24959-67-9	69.4	4.0	5.0	10
00224	Chloride	16887-00-6	151	10.0	20.0	50
00228	Sulfate	14808-79-8	54.7	3.0	10.0	10
SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	22.9	0.50	1.0	1
The reported result is the average of the following trials:						
			22.925	mg/l		
			23.04	mg/l		
			23.261	mg/l		
			22.524	mg/l		

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140271AA	01/27/2014 13:18	Kerri E Legerlotz	5
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140271AA	01/27/2014 13:18	Kerri E Legerlotz	5
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140280018A	01/29/2014 02:14	Nicholas R Rossi	1
01505	Bromide	EPA 300.0	1	14020347601B	01/20/2014 15:24	Sandra J Miller	10
00224	Chloride	EPA 300.0	1	14020347601B	01/21/2014 12:34	Sandra J Miller	50

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML04-3 MS Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341038
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 16:15 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK19 SDG#: POM06-19MS

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
00228	Sulfate	EPA 300.0	1	14020347601B	01/20/2014	15:24	Sandra J Miller	10
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14021237301A	01/21/2014	19:17	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML04-3 MSD Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341039
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 16:15 by GN

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Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK19 SDG#: POM06-19MSD

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL						
purge						
02898	Carbon Tetrachloride	56-23-5	28	0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	30	0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	26	0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	33	0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	640	E 0.5	2.5	5
02898	trans-1,2-Dichloroethene	156-60-5	130	E 0.5	2.5	5
02898	Tetrachloroethene	127-18-4	28	0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	27	0.5	2.5	5
02898	Trichloroethene	79-01-6	39	0.5	2.5	5
02898	Vinyl Chloride	75-01-4	280	E 0.5	2.5	5
GC Miscellaneous RSKSOP-175 modified						
07105	Ethane	74-84-0	64	1.0	5.0	1
07105	Ethene	74-85-1	97	1.0	5.0	1
07105	Methane	74-82-8	820	E 3.0	5.0	1
Wet Chemistry SW-846 9060A						
00354	Total Organic Carbon (Quad)	n.a.	22.3	0.50	1.0	1
The reported result is the average of the following trials:						
	22.972	mg/l				
	22.375	mg/l				
	22.072	mg/l				
	21.791	mg/l				

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140271AA	01/27/2014 13:39	Kerri E Legerlotz	5
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140271AA	01/27/2014 13:39	Kerri E Legerlotz	5
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140280018A	01/29/2014 02:32	Nicholas R Rossi	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14021237301A	01/21/2014 20:09	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML04-3 Dupl Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341040
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 16:15 by GN

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Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK19 SDG#: POM06-19DUP

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry			EPA 300.0	mg/l	mg/l	
01505	Bromide	24959-67-9	21.6	2.0	2.5	5
00224	Chloride	16887-00-6	55.0	4.0	8.0	20
00228	Sulfate	14808-79-8	2.2 J	1.5	5.0	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14020347601B	01/20/2014 14:35	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601B	01/21/2014 12:18	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	14020347601B	01/20/2014 14:35	Sandra J Miller	5

*=This limit was used in the evaluation of the final result

Sample Description: **GW-011614-IW01-UPPER Groundwater**
EISB MONITORING PROGRAM 2014

LL Sample # **WW 7341041**
LL Group # **1446969**
Account # **07032**

Project Name: **POM - EISB MONITORING PROGRAM**

Collected: 01/16/2014 10:41 by GN

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URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK20 SDG#: POM06-20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1 ug/l	0.5 ug/l	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1 ug/l	0.5 ug/l	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1 ug/l	0.5 ug/l	1
02898	1,1-Dichloroethene	75-35-4	0.2 J		0.1 ug/l	0.5 ug/l	1
02898	cis-1,2-Dichloroethene	156-59-2	17		0.1 ug/l	0.5 ug/l	1
02898	trans-1,2-Dichloroethene	156-60-5	11		0.1 ug/l	0.5 ug/l	1
02898	Tetrachloroethene	127-18-4	17		0.1 ug/l	0.5 ug/l	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1 ug/l	0.5 ug/l	1
02898	Trichloroethene	79-01-6	25		0.1 ug/l	0.5 ug/l	1
02898	Vinyl Chloride	75-01-4	0.6		0.1 ug/l	0.5 ug/l	1
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	1.0 U		1.0 ug/l	5.0 ug/l	1
07105	Ethene	74-85-1	1.0 U		1.0 ug/l	5.0 ug/l	1
07105	Methane	74-82-8	3.0 U		3.0 ug/l	5.0 ug/l	1
Wet Chemistry SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	1.3		0.50 mg/l	1.0 mg/l	1
The reported result is the average of the following trials:							
	1.4225	mg/l					
	1.4485	mg/l					
	1.228	mg/l					
	1.2515	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140271AA	01/27/2014 11:24	Kerri E Legerlotz	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140271AA	01/27/2014 11:24	Kerri E Legerlotz	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140280018A	01/29/2014 02:50	Nicholas R Rossi	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14021237301A	01/21/2014 20:43	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011614-128-D Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341042
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/16/2014 10:50 by GN

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Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK21 SDG#: POM06-21

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles			SW-846 8260B 25mL	ug/l	ug/l	ug/l	
			purge				
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 J		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	6.4		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 J		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	20		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	7.9		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	1.2		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	3.9		0.1	0.5	1
GC Miscellaneous			RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	1,800		30	50	10
Wet Chemistry			EPA 300.0	mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	2.0 U		2.0	2.5	5
00224	Chloride	16887-00-6	10.4		1.0	2.0	5
00228	Sulfate	14808-79-8	8.0		1.5	5.0	5
			SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	4.5		0.50	1.0	1
The reported result is the average of the following trials:							
	4.287	mg/l					
	4.159	mg/l					
	4.964	mg/l					
	4.598	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL purge	1	I140271AA	01/27/2014 12:14	Kerri E Legerlotz	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140271AA	01/27/2014 12:14	Kerri E Legerlotz	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140280018A	01/29/2014 03:08	Nicholas R Rossi	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140280018A	01/29/2014 10:33	Nicholas R Rossi	10

*=This limit was used in the evaluation of the final result

Sample Description: GW-011614-128-D Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341042
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/16/2014 10:50 by GN

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4051 Ogletown Road, Suite 300
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Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK21 SDG#: POM06-21

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
01505	Bromide	EPA 300.0	1	14020347601B	01/20/2014	17:17	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601B	01/20/2014	17:17	Sandra J Miller	5
00228	Sulfate	EPA 300.0	1	14020347601B	01/20/2014	17:17	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14026237301A	01/24/2014	17:41	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011614-ML04-2 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341043
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/16/2014 13:15 by GN

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URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK22 SDG#: POM06-22

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles			SW-846 8260B 25mL	ug/l	ug/l	ug/l	
			purge				
02898	Carbon Tetrachloride	56-23-5	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	4.1		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	4.7		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	780		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	280		5.0	25	50
02898	Tetrachloroethene	127-18-4	0.5 U		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	1.6 J		0.5	2.5	5
02898	Trichloroethene	79-01-6	5.6		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	160		5.0	25	50
GC Miscellaneous			RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	5.5		1.0	5.0	1
07105	Ethene	74-85-1	7.0		1.0	5.0	1
07105	Methane	74-82-8	830		15	25	5
Wet Chemistry			EPA 300.0	mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	20.6		2.0	2.5	5
00224	Chloride	16887-00-6	54.3		4.0	8.0	20
00228	Sulfate	14808-79-8	1.5 U		1.5	5.0	5
			SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	26.7		0.50	1.0	1
The reported result is the average of the following trials:							
	26.919	mg/l					
	26.831	mg/l					
	26.608	mg/l					
	26.245	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140271AA	01/27/2014 14:21	Kerri E Legerlotz	5
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140271AA	01/27/2014 14:42	Kerri E Legerlotz	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140271AA	01/27/2014 14:21	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140271AA	01/27/2014 14:42	Kerri E Legerlotz	50

*=This limit was used in the evaluation of the final result

Sample Description: GW-011614-ML04-2 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341043
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/16/2014 13:15 by GN

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Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK22 SDG#: POM06-22

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140280018A	01/29/2014 03:27	Nicholas R Rossi	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140280018A	01/29/2014 10:51	Nicholas R Rossi	5
01505	Bromide	EPA 300.0	1	14020347601B	01/20/2014 17:33	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601B	01/21/2014 13:22	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	14020347601B	01/20/2014 17:33	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14026237301A	01/24/2014 18:31	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011614-ML04-7 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341044
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/16/2014 15:00 by GN

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URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK23 SDG#: POM06-23

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles			SW-846 8260B 25mL	ug/l	ug/l	ug/l	
			purge				
02898	Carbon Tetrachloride	56-23-5	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	1.8 J		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	0.7 J		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	110		0.5	2.5	5
02898	trans-1,2-Dichloroethene	156-60-5	7.6		0.5	2.5	5
02898	Tetrachloroethene	127-18-4	0.5 U		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U		0.5	2.5	5
02898	Trichloroethene	79-01-6	1.4 J		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	190		5.0	25	50
GC Miscellaneous			RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	6.0		1.0	5.0	1
07105	Ethene	74-85-1	13		1.0	5.0	1
07105	Methane	74-82-8	2,400		60	100	20
Wet Chemistry			EPA 300.0	mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	2.0 U		2.0	2.5	5
00224	Chloride	16887-00-6	55.1		4.0	8.0	20
00228	Sulfate	14808-79-8	32.3		1.5	5.0	5
			SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	16.4		0.50	1.0	1
The reported result is the average of the following trials:							
	15.358	mg/l					
	16.742	mg/l					
	16.303	mg/l					
	17.113	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140271AA	01/27/2014 15:04	Kerri E Legerlotz	5
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140271AA	01/27/2014 15:25	Kerri E Legerlotz	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140271AA	01/27/2014 15:04	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140271AA	01/27/2014 15:25	Kerri E Legerlotz	50

*=This limit was used in the evaluation of the final result

Sample Description: GW-011614-ML04-7 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341044
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/16/2014 15:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK23 SDG#: POM06-23

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140280018A	01/29/2014	03:45	Nicholas R Rossi	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140280018A	01/29/2014	11:09	Nicholas R Rossi	20
01505	Bromide	EPA 300.0	1	14020347601B	01/20/2014	17:49	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601B	01/21/2014	13:39	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	14020347601B	01/20/2014	17:49	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14026237301A	01/24/2014	19:21	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML04-5 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341045
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 12:00 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK24 SDG#: POM06-24

CAT No.	Analysis Name	CAS Number	As Received Result	Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	1.6 J		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	1.9 J		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	280		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	110		0.5	2.5	5
02898	Tetrachloroethene	127-18-4	3.4		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U		0.5	2.5	5
02898	Trichloroethene	79-01-6	12		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	67		0.5	2.5	5
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	3.8 J		1.0	5.0	1
07105	Ethene	74-85-1	4.7 J		1.0	5.0	1
07105	Methane	74-82-8	750		15	25	5
Wet Chemistry							
	EPA 300.0		mg/l		mg/l	mg/l	
01505	Bromide	24959-67-9	12.2		2.0	2.5	5
00224	Chloride	16887-00-6	46.2		4.0	8.0	20
00228	Sulfate	14808-79-8	5.0		1.5	5.0	5
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	5.3		0.50	1.0	1
	The reported result is the average of the following trials:						
	5.144	mg/l					
	5.588	mg/l					
	5.301	mg/l					
	5.192	mg/l					

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140271AA	01/27/2014 15:46	Kerri E Legerlotz	5
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140271AA	01/27/2014 16:07	Kerri E Legerlotz	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140271AA	01/27/2014 15:46	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140271AA	01/27/2014 16:07	Kerri E Legerlotz	50

*=This limit was used in the evaluation of the final result

Sample Description: GW-011514-ML04-5 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341045
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 12:00 by GN

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Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK24 SDG#: POM06-24

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140280018A	01/29/2014	04:03	Nicholas R Rossi	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140280018A	01/29/2014	11:27	Nicholas R Rossi	5
01505	Bromide	EPA 300.0	1	14020347601B	01/20/2014	18:38	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601B	01/21/2014	14:27	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	14020347601B	01/20/2014	18:38	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14026237301A	01/24/2014	19:55	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011414-EW01-LOWER Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341046
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/14/2014 12:34 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK25 SDG#: POM06-25

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles SW-846 8260B 25mL							
purge							
02898	Carbon Tetrachloride	56-23-5	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	3.0		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	4.2		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	680		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	250		5.0	25	50
02898	Tetrachloroethene	127-18-4	1.0 J		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U		0.5	2.5	5
02898	Trichloroethene	79-01-6	30		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	160		5.0	25	50
GC Miscellaneous RSKSOP-175 modified							
07105	Ethane	74-84-0	6.6		1.0	5.0	1
07105	Ethene	74-85-1	11		1.0	5.0	1
07105	Methane	74-82-8	1,100		30	50	10
Wet Chemistry EPA 300.0							
01505	Bromide	24959-67-9	12.5		2.0	2.5	5
00224	Chloride	16887-00-6	53.2		4.0	8.0	20
00228	Sulfate	14808-79-8	27.2		1.5	5.0	5
SW-846 9060A							
00354	Total Organic Carbon (Quad)	n.a.	8.5		0.50	1.0	1
The reported result is the average of the following trials:							
	8.604	mg/l					
	8.421	mg/l					
	7.97	mg/l					
	9.068	mg/l					
SM 4500-S2 D-2000							
00230	Sulfide	18496-25-8	0.054 U		0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140271AA	01/27/2014 16:28	Kerri E Legerlotz	5
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140271AA	01/27/2014 16:50	Kerri E Legerlotz	50

*=This limit was used in the evaluation of the final result

Sample Description: GW-011414-EW01-LOWER Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341046
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/14/2014 12:34 by GN

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URS Corporation
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Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK25 SDG#: POM06-25

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140271AA	01/27/2014	16:28	Kerri E Legerlotz	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140271AA	01/27/2014	16:50	Kerri E Legerlotz	50
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	02:14	Elizabeth J Marin	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	16:28	Elizabeth J Marin	10
01505	Bromide	EPA 300.0	1	14020347601B	01/20/2014	18:54	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601B	01/21/2014	14:43	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	14020347601B	01/20/2014	18:54	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14026237301A	01/24/2014	20:46	Joseph E McKenzie	1
00230	Sulfide	SM 4500-S2 D-2000	1	14020023001A	01/20/2014	09:10	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: GW-011414-ML02-6 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341047
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/14/2014 10:20 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK26 SDG#: POM06-26

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethane	75-34-3	0.8 J		0.5	2.5	5
02898	1,2-Dichloroethane	107-06-2	0.5 U		0.5	2.5	5
02898	1,1-Dichloroethene	75-35-4	1.6 J		0.5	2.5	5
02898	cis-1,2-Dichloroethene	156-59-2	240		5.0	25	50
02898	trans-1,2-Dichloroethene	156-60-5	99		0.5	2.5	5
02898	Tetrachloroethene	127-18-4	14		0.5	2.5	5
02898	1,1,1-Trichloroethane	71-55-6	0.5 U		0.5	2.5	5
02898	Trichloroethene	79-01-6	26		0.5	2.5	5
02898	Vinyl Chloride	75-01-4	36		0.5	2.5	5
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.1 J		1.0	5.0	1
07105	Ethene	74-85-1	1.5 J		1.0	5.0	1
07105	Methane	74-82-8	130		3.0	5.0	1
Wet Chemistry							
	EPA 300.0		mg/l		mg/l	mg/l	
01505	Bromide	24959-67-9	2.0 J		2.0	2.5	5
00224	Chloride	16887-00-6	62.0		4.0	8.0	20
00228	Sulfate	14808-79-8	37.1		1.5	5.0	5
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	2.6		0.50	1.0	1
	The reported result is the average of the following trials:						
	2.618	mg/l					
	2.61	mg/l					
	2.433	mg/l					
	2.677	mg/l					
	SM 4500-S2 D-2000		mg/l		mg/l	mg/l	
00230	Sulfide	18496-25-8	0.054 U		0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 18:27	Jason M Long	5
		purge					
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 18:48	Jason M Long	50
		purge					

*=This limit was used in the evaluation of the final result

Sample Description: GW-011414-ML02-6 Groundwater
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341047
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/14/2014 10:20 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK26 SDG#: POM06-26

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140241AA	01/24/2014	18:27	Jason M Long	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	I140241AA	01/24/2014	18:48	Jason M Long	50
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	02:32	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	14020347601B	01/20/2014	19:10	Sandra J Miller	5
00224	Chloride	EPA 300.0	1	14020347601B	01/21/2014	14:59	Sandra J Miller	20
00228	Sulfate	EPA 300.0	1	14020347601B	01/20/2014	19:10	Sandra J Miller	5
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14026237301A	01/24/2014	21:19	Joseph E McKenzie	1
00230	Sulfide	SM 4500-S2 D-2000	1	14020023001A	01/20/2014	09:10	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: W-011514-ML04-3-FB Blank Water
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341048
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 16:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK27 SDG#: POM06-27FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1
Wet Chemistry							
	EPA 300.0		mg/l		mg/l	mg/l	
01505	Bromide	24959-67-9	0.40 U		0.40	0.50	1
00224	Chloride	16887-00-6	0.20 U		0.20	0.40	1
00228	Sulfate	14808-79-8	0.30 U		0.30	1.0	1
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	0.50 U		0.50	1.0	1
	The reported result is the average of the following trials:						
	0.271	mg/l					
	0.156	mg/l					
	0.275	mg/l					
	0.037	mg/l					
	SM 4500-S2 D-2000		mg/l		mg/l	mg/l	
00230	Sulfide	18496-25-8	0.054 U		0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 09:13	Jason M Long	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140241AA	01/24/2014 09:13	Jason M Long	1

*=This limit was used in the evaluation of the final result

Sample Description: W-011514-ML04-3-FB Blank Water
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341048
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/15/2014 16:30 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK27 SDG#: POM06-27FB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140280018A	01/29/2014	04:21	Nicholas R Rossi	1
01505	Bromide	EPA 300.0	1	14020347902A	01/20/2014	19:13	Sandra J Miller	1
00224	Chloride	EPA 300.0	1	14020347902A	01/20/2014	19:13	Sandra J Miller	1
00228	Sulfate	EPA 300.0	1	14020347902A	01/20/2014	19:13	Sandra J Miller	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14026237301A	01/24/2014	21:53	Joseph E McKenzie	1
00230	Sulfide	SM 4500-S2 D-2000	1	14020023001A	01/20/2014	09:10	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: W-011314-ML04-1-FB Blank Water
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341049
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/13/2014 11:10 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK28 SDG#: POM06-28FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1
Wet Chemistry							
	EPA 300.0		mg/l		mg/l	mg/l	
01505	Bromide	24959-67-9	0.40 U		0.40	0.50	1
00224	Chloride	16887-00-6	0.20 U		0.20	0.40	1
00228	Sulfate	14808-79-8	0.30 U		0.30	1.0	1
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	0.50 U		0.50	1.0	1
	The reported result is the average of the following trials:						
	0.168	mg/l					
	0.081	mg/l					
	0.122	mg/l					
	0.003	mg/l					
	SM 4500-S2 D-2000		mg/l		mg/l	mg/l	
00230	Sulfide	18496-25-8	0.054 U		0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 09:34	Jason M Long	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140241AA	01/24/2014 09:34	Jason M Long	1

*=This limit was used in the evaluation of the final result

Sample Description: W-011314-ML04-1-FB Blank Water
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341049
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/13/2014 11:10 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK28 SDG#: POM06-28FB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140240016A	01/25/2014	09:49	Nicholas R Rossi	1
01505	Bromide	EPA 300.0	1	14020347902A	01/20/2014	19:29	Sandra J Miller	1
00224	Chloride	EPA 300.0	1	14020347902A	01/20/2014	19:29	Sandra J Miller	1
00228	Sulfate	EPA 300.0	1	14020347902A	01/20/2014	19:29	Sandra J Miller	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14026237301A	01/24/2014	22:44	Joseph E McKenzie	1
00230	Sulfide	SM 4500-S2 D-2000	1	14020023001A	01/20/2014	09:10	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: W-011414-ML02-5 Blank Water
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341050
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/14/2014 15:10 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK29 SDG#: POM06-29FB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1
Wet Chemistry							
	EPA 300.0		mg/l		mg/l	mg/l	
01505	Bromide	24959-67-9	0.40 U		0.40	0.50	1
00224	Chloride	16887-00-6	0.87 U		0.20	0.40	1
00228	Sulfate	14808-79-8	0.30 U		0.30	1.0	1
	SW-846 9060A		mg/l		mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	0.50 U		0.50	1.0	1
	The reported result is the average of the following trials:						
	0.186	mg/l					
	0.036	mg/l					
	0.151	mg/l					
	0.002	mg/l					
	SM 4500-S2 D-2000		mg/l		mg/l	mg/l	
00230	Sulfide	18496-25-8	0.054 U		0.054	0.16	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 09:55	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140241AA	01/24/2014 09:55	Jason M Long	1

*=This limit was used in the evaluation of the final result

Sample Description: W-011414-ML02-5 Blank Water
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341050
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/14/2014 15:10 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK29 SDG#: POM06-29FB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis		Analyst	Dilution Factor
					Date	Time		
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140270027A	01/28/2014	02:50	Elizabeth J Marin	1
01505	Bromide	EPA 300.0	1	14020347902A	01/20/2014	19:45	Sandra J Miller	1
00224	Chloride	EPA 300.0	1	14020347902A	01/20/2014	19:45	Sandra J Miller	1
00228	Sulfate	EPA 300.0	1	14020347902A	01/20/2014	19:45	Sandra J Miller	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14026237301A	01/24/2014	23:18	Joseph E McKenzie	1
00230	Sulfide	SM 4500-S2 D-2000	1	14020023001A	01/20/2014	09:10	Susan E Hibner	1

*=This limit was used in the evaluation of the final result

Sample Description: W-011614-ML04-7-FB Blank Water
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341051
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/16/2014 14:55 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK30 SDG#: POM06-30FB

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles			SW-846 8260B 25mL	ug/l	ug/l	ug/l	
			purge				
02898	Carbon Tetrachloride	56-23-5	0.1	U	0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1	U	0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1	U	0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1	U	0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1	U	0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1	U	0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1	U	0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1	U	0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1	U	0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1	U	0.1	0.5	1
GC Miscellaneous			RSKSOP-175 modified	ug/l	ug/l	ug/l	
07105	Ethane	74-84-0	1.0	U	1.0	5.0	1
07105	Ethene	74-85-1	1.0	U	1.0	5.0	1
07105	Methane	74-82-8	3.0	U	3.0	5.0	1
Wet Chemistry			EPA 300.0	mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	0.40	U	0.40	0.50	1
00224	Chloride	16887-00-6	0.20	U	0.20	0.40	1
00228	Sulfate	14808-79-8	0.30	U	0.30	1.0	1
			SW-846 9060A	mg/l	mg/l	mg/l	
00354	Total Organic Carbon (Quad)	n.a.	0.50	U	0.50	1.0	1
The reported result is the average of the following trials:							
			0.233	mg/l			
			0	mg/l			
			0.166	mg/l			
			0.052	mg/l			

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time		Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL purge	1	I140241AA	01/24/2014	10:16	Jason M Long	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140241AA	01/24/2014	10:16	Jason M Long	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140280018A	01/29/2014	00:38	Nicholas R Rossi	1
01505	Bromide	EPA 300.0	1	14020347902A	01/20/2014	22:22	Sandra J Miller	1
00224	Chloride	EPA 300.0	1	14020347902A	01/20/2014	22:22	Sandra J Miller	1

*=This limit was used in the evaluation of the final result

Sample Description: W-011614-ML04-7-FB Blank Water
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341051
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/16/2014 14:55 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK30 SDG#: POM06-30FB

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
00228	Sulfate	EPA 300.0	1	14020347902A	01/20/2014 22:22	Sandra J Miller	1
00354	Total Organic Carbon (Quad)	SW-846 9060A	1	14026237301A	01/25/2014 00:09	Joseph E McKenzie	1

*=This limit was used in the evaluation of the final result

Sample Description: W-011614-ML04-7-TB Blank Water
EISB MONITORING PROGRAM 2014

LL Sample # WW 7341052
LL Group # 1446969
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/16/2014 10:41 by GN

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

Submitted: 01/17/2014 20:11
Reported: 01/30/2014 11:07

PLK31 SDG#: POM06-31TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method	As Received Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles							
	SW-846 8260B 25mL		ug/l		ug/l	ug/l	
	purge						
02898	Carbon Tetrachloride	56-23-5	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethane	75-34-3	0.1 U		0.1	0.5	1
02898	1,2-Dichloroethane	107-06-2	0.1 U		0.1	0.5	1
02898	1,1-Dichloroethene	75-35-4	0.1 U		0.1	0.5	1
02898	cis-1,2-Dichloroethene	156-59-2	0.1 U		0.1	0.5	1
02898	trans-1,2-Dichloroethene	156-60-5	0.1 U		0.1	0.5	1
02898	Tetrachloroethene	127-18-4	0.1 U		0.1	0.5	1
02898	1,1,1-Trichloroethane	71-55-6	0.1 U		0.1	0.5	1
02898	Trichloroethene	79-01-6	0.1 U		0.1	0.5	1
02898	Vinyl Chloride	75-01-4	0.1 U		0.1	0.5	1
GC Miscellaneous							
	RSKSOP-175 modified		ug/l		ug/l	ug/l	
07105	Ethane	74-84-0	1.0 U		1.0	5.0	1
07105	Ethene	74-85-1	1.0 U		1.0	5.0	1
07105	Methane	74-82-8	3.0 U		3.0	5.0	1

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
02898	POM Compliance Volatiles	SW-846 8260B 25mL	1	I140241AA	01/24/2014 12:03	Jason M Long	1
		purge					
01163	GC/MS VOA Water Prep	SW-846 5030B	1	I140241AA	01/24/2014 12:03	Jason M Long	1
07105	Methane, Ethane & Ethene	RSKSOP-175 modified	1	140280018A	01/29/2014 00:56	Nicholas R Rossi	1

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 01/30/14 at 11:07 AM

Group Number: 1446969

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>	
Batch number: I140211AA Sample number(s): 7341016-7341019										
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	97	95	80-129	3	30	
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	94	92	80-120	2	30	
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	96	93	80-127	2	30	
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	100	99	80-123	1	30	
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	99	98	80-120	1	30	
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	102	102	80-120	1	30	
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	100	100	80-120	0	30	
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	96	95	80-120	1	30	
Trichloroethene	0.1 U	0.1	0.5	ug/l	101	99	80-120	2	30	
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	98	97	65-127	1	30	
Batch number: I140231AA Sample number(s): 7341017,7341019-7341024										
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	94	93	80-129	1	30	
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	94	93	80-120	2	30	
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	94	92	80-127	2	30	
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	97	96	80-123	1	30	
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	99	97	80-120	2	30	
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	101	99	80-120	1	30	
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	97	96	80-120	1	30	
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	93	93	80-120	0	30	
Trichloroethene	0.1 U	0.1	0.5	ug/l	101	100	80-120	1	30	
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	96	96	65-127	1	30	
Batch number: I140241AA Sample number(s): 7341020,7341025-7341029,7341031-7341036,7341047-7341052										
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	92		80-129			
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	93		80-120			
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	94		80-127			
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	95		80-123			
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	97		80-120			
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	99		80-120			
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	96		80-120			
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	94		80-120			
Trichloroethene	0.1 U	0.1	0.5	ug/l	99		80-120			
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	91		65-127			
Batch number: I140271AA Sample number(s): 7341037-7341039,7341041-7341046										
Carbon Tetrachloride	0.1 U	0.1	0.5	ug/l	97		80-129			
1,1-Dichloroethane	0.1 U	0.1	0.5	ug/l	94		80-120			
1,2-Dichloroethane	0.1 U	0.1	0.5	ug/l	96		80-127			
1,1-Dichloroethene	0.1 U	0.1	0.5	ug/l	99		80-123			
cis-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	97		80-120			
trans-1,2-Dichloroethene	0.1 U	0.1	0.5	ug/l	101		80-120			
Tetrachloroethene	0.1 U	0.1	0.5	ug/l	98		80-120			

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 01/30/14 at 11:07 AM

Group Number: 1446969

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCS %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
1,1,1-Trichloroethane	0.1 U	0.1	0.5	ug/l	95		80-120		
Trichloroethene	0.1 U	0.1	0.5	ug/l	102		80-120		
Vinyl Chloride	0.1 U	0.1	0.5	ug/l	89		65-127		
Batch number: 140240016A	Sample number(s): 7341016-7341021,7341049								
Ethane	1.0 U	1.0	5.0	ug/l	100		80-120		
Ethene	1.0 U	1.0	5.0	ug/l	101		80-120		
Methane	3.0 U	3.0	5.0	ug/l	105		80-120		
Batch number: 140270027A	Sample number(s): 7341022-7341029,7341031-7341035,7341046-7341047,7341050								
Ethane	1.0 U	1.0	5.0	ug/l	102		80-120		
Ethene	1.0 U	1.0	5.0	ug/l	100		80-120		
Methane	3.0 U	3.0	5.0	ug/l	106		80-120		
Batch number: 140280018A	Sample number(s): 7341036-7341039,7341041-7341045,7341048,7341051-7341052								
Ethane	1.0 U	1.0	5.0	ug/l	98		80-120		
Ethene	1.0 U	1.0	5.0	ug/l	96		80-120		
Methane	3.0 U	3.0	5.0	ug/l	102		80-120		
Batch number: 14020237301A	Sample number(s): 7341016-7341024,7341027-7341029								
Total Organic Carbon (Quad)	0.50 U	0.50	1.0	mg/l	98		91-113		
Batch number: 14020347601A	Sample number(s): 7341016,7341021,7341023-7341028,7341030-7341033								
Bromide	0.40 U	0.40	0.50	mg/l	93		90-110		
Chloride	0.20 U	0.20	0.40	mg/l	95		90-110		
Sulfate	0.30 U	0.30	1.0	mg/l	100		90-110		
Batch number: 14020347601B	Sample number(s): 7341034-7341038,7341040,7341042-7341047								
Bromide	0.40 U	0.40	0.50	mg/l	93		90-110		
Chloride	0.20 U	0.20	0.40	mg/l	95		90-110		
Sulfate	0.30 U	0.30	1.0	mg/l	100		90-110		
Batch number: 14020347902A	Sample number(s): 7341048-7341051								
Bromide	0.40 U	0.40	0.50	mg/l	100		90-110		
Chloride	0.20 U	0.20	0.40	mg/l	100		90-110		
Sulfate	0.30 U	0.30	1.0	mg/l	102		90-110		
Batch number: 14021237301A	Sample number(s): 7341025-7341026,7341031-7341039,7341041								
Total Organic Carbon (Quad)	0.50 U	0.50	1.0	mg/l	97		91-113		
Batch number: 14026237301A	Sample number(s): 7341042-7341051								
Total Organic Carbon (Quad)	0.50 U	0.50	1.0	mg/l	99		91-113		
Batch number: 14020023001A	Sample number(s): 7341021,7341023-7341030,7341032,7341046-7341050								
Sulfide	0.054 U	0.054	0.16	mg/l	99		90-110		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
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*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 01/30/14 at 11:07 AM

Group Number: 1446969

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: I140241AA	Sample number(s): 7341020,7341025-7341029,7341031-7341036,7341047-7341052 UNSPK: 7341027								
Carbon Tetrachloride	84	90	81-148	7	30				
1,1-Dichloroethane	85*	93	88-136	8	30				
1,2-Dichloroethane	91	96	82-135	5	30				
1,1-Dichloroethene	85	92	83-150	8	30				
cis-1,2-Dichloroethene	111 (2)	193 (2)	82-129	7	30				
trans-1,2-Dichloroethene	99	128*	88-127	7	30				
Tetrachloroethene	86	93	75-129	7	30				
1,1,1-Trichloroethane	84*	90	85-140	7	30				
Trichloroethene	93	100	85-131	7	30				
Vinyl Chloride	80	106	62-135	6	30				
Batch number: I140271AA	Sample number(s): 7341037-7341039,7341041-7341046 UNSPK: 7341037								
Carbon Tetrachloride	104	110	81-148	6	30				
1,1-Dichloroethane	98	106	88-136	7	30				
1,2-Dichloroethane	95	103	82-135	8	30				
1,1-Dichloroethene	108	115	83-150	5	30				
cis-1,2-Dichloroethene	136 (2)	302 (2)	82-129	7	30				
trans-1,2-Dichloroethene	150*	161*	88-127	2	30				
Tetrachloroethene	107	113	75-129	6	30				
1,1,1-Trichloroethane	102	108	85-140	6	30				
Trichloroethene	112	119	85-131	5	30				
Vinyl Chloride	132 (2)	185 (2)	62-135	5	30				
Batch number: 140240016A	Sample number(s): 7341016-7341021,7341049 UNSPK: 7341017								
Ethane	94	82	32-129	13	20				
Ethene	111	96	35-162	14	20				
Methane	-115 (2)	-145 (2)	35-157	4	20				
Batch number: 140270027A	Sample number(s): 7341022-7341029,7341031-7341035,7341046-7341047,7341050 UNSPK: 7341027								
Ethane	82	98	32-129	17	20				
Ethene	85	105	35-162	19	20				
Methane	10 (2)	30 (2)	35-157	3	20				
Batch number: 140280018A	Sample number(s): 7341036-7341039,7341041-7341045,7341048,7341051-7341052 UNSPK: 7341037								
Ethane	90	96	32-129	5	20				
Ethene	109	117	35-162	6	20				
Methane	-252 (2)	-104 (2)	35-157	11	20				
Batch number: 14020237301A	Sample number(s): 7341016-7341024,7341027-7341029 UNSPK: 7341027								
Total Organic Carbon (Quad)	103	97	63-142	4	20				
Batch number: 14020347601A	Sample number(s): 7341016,7341021,7341023-7341028,7341030-7341033 UNSPK: 7341027 BKG: 7341027								
Bromide	94		90-110			4.2	4.2	1 (1)	20
Chloride	99		90-110			343	353	3	20
Sulfate	102		90-110			13.2	12.7	3 (1)	20

*- Outside of specification

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(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 01/30/14 at 11:07 AM

Group Number: 1446969

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 14020347601B	Sample number(s): 7341034-7341038,7341040,7341042-7341047 UNSPK: 7341037 BKG: 7341037								
Bromide	95		90-110			21.7	21.6	1	20
Chloride	95		90-110			56.0	55.0	2	20
Sulfate	106		90-110			1.9	J 2.2	J 15 (1)	20
Batch number: 14020347902A	Sample number(s): 7341048-7341051 UNSPK: P337315 BKG: P337315								
Bromide	99		90-110			2.0	U 2.0	U 0 (1)	20
Chloride	97		90-110			7.0	6.1	14 (1)	20
Sulfate	100		90-110			25.8	25.8	0	20
Batch number: 14021237301A	Sample number(s): 7341025-7341026,7341031-7341039,7341041 UNSPK: 7341037								
Total Organic Carbon (Quad)	101	95	63-142	3	20				
Batch number: 14026237301A	Sample number(s): 7341042-7341051 UNSPK: 7341042								
Total Organic Carbon (Quad)	101	100	63-142	1	20				
Batch number: 14020023001A	Sample number(s): 7341021,7341023-7341030,7341032,7341046-7341050 UNSPK: 7341027								
Sulfide	95	97	42-131	1	16	0.12	J 0.13	J 7* (1)	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: POM Compliance Volatiles
Batch number: I140211AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7341016	99	101	98	96
7341018	100	101	98	95
Blank	99	103	98	95
LCS	99	102	99	97
LCSD	98	102	98	98
Limits:	77-114	74-113	77-110	78-110

Analysis Name: POM Compliance Volatiles
Batch number: I140231AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7341017	98	98	97	94
7341019	97	99	98	95
7341020	99	98	98	95
7341021	98	97	97	93
7341022	99	100	98	94
7341023	98	102	97	96

*- Outside of specification

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- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 01/30/14 at 11:07 AM

Group Number: 1446969

Surrogate Quality Control

7341024	98	101	97	95
Blank	98	100	98	94
LCS	97	99	99	97
LCSD	97	100	100	97

Limits: 77-114 74-113 77-110 78-110

Analysis Name: POM Compliance Volatiles
Batch number: I140241AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7341025	98	102	97	95
7341026	98	101	98	95
7341027	99	103	97	96
7341028	99	105	98	99
7341029	99	101	99	98
7341031	99	101	96	95
7341032	97	100	97	95
7341033	99	102	97	96
7341034	98	99	97	94
7341035	100	104	96	94
7341036	101	102	97	95
7341047	100	103	97	96
7341048	97	98	97	92
7341049	98	102	96	94
7341050	99	102	97	94
7341051	98	102	97	94
7341052	99	100	98	96
Blank	99	103	98	94
LCS	98	100	100	97
MS	99	105	98	99
MSD	99	101	99	98

Limits: 77-114 74-113 77-110 78-110

Analysis Name: POM Compliance Volatiles
Batch number: I140271AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7341037	101	106	95	96
7341038	100	101	99	99
7341039	99	102	99	98
7341041	100	103	96	96
7341042	98	96	96	95
7341043	101	103	96	96
7341044	99	102	96	97
7341045	100	101	96	95
7341046	101	105	96	95
Blank	100	102	96	95
LCS	100	104	98	100
MS	100	101	99	99
MSD	99	102	99	98

Limits: 77-114 74-113 77-110 78-110

Analysis Name: Methane, Ethane & Ethene

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 01/30/14 at 11:07 AM

Group Number: 1446969

Surrogate Quality Control

Batch number: 140240016A
Propene

7341016	87
7341017	73
7341018	79
7341019	70
7341020	69
7341021	76
7341049	83
Blank	99
LCS	99
MS	82
MSD	74

Limits: 42-131

Analysis Name: Methane, Ethane & Ethene
Batch number: 140270027A
Propene

7341022	87
7341023	70
7341024	84
7341025	82
7341026	82
7341027	89
7341028	75
7341029	89
7341031	88
7341032	76
7341033	82
7341034	73
7341035	89
7341046	85
7341047	81
7341050	97
Blank	97
LCS	99
MS	75
MSD	89

Limits: 42-131

Analysis Name: Methane, Ethane & Ethene
Batch number: 140280018A
Propene

7341036	86
7341037	77
7341038	77
7341039	80
7341041	81
7341042	83
7341043	75
7341044	74

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

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- (2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 01/30/14 at 11:07 AM

Group Number: 1446969

Surrogate Quality Control

7341045	75
7341048	85
7341051	87
7341052	72
Blank	96
LCS	96
MS	77
MSD	80

Limits: 42-131

*- Outside of specification

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- (2) The unspiked result was more than four times the spike added.



Lancaster
Laboratories

Analysis Request / Environmental Services Chain of Custody

1 of 1

For Lancaster Laboratories Use Only

Group No.: 1446969 Sample Nos.: 7341016-S2
 Acc't: 07032 SF: _____ SCR No.: 150499 Cooler No.: C18980 **27696**
 Cooler Temperature upon receipt: 0.6-5.8 °C Container No.: T-7

Facility Name: Pompton Lakes		Project Manager: George Nemeth		Analyses Required										Comments:		
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735		TOC Quad (SW-846 9060A) Methane, Ethane, Ethene (RSK-175) POM Site List of Volatiles (8260)										Condition upon receipt: <u>intact</u>		
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882														
2000 Cannonball Road		Release No.:														
Pompton Lakes NJ 07442		PO Number: LBIO-66380														
Sampler(s): <u>G. Nemeth / M. Ng</u>		Project Name: EISB MONITORING PROGRAM 2013														
Sample Identification	Date Collected	Time Collected	Matrix	Containers			TOC	Methane	Ethane	Ethene	POM	Site	List	Volatiles	(8260)	
				Volume (ml)	Preserv	No.										
GW-011314-IW01-Lower	1/13/14	1442	WW	40	H3PO4	5	X									
GW-011314-IW01-Lower	↓	↓	WW	40	HCl	3		X								
GW-011314-IW01-Lower	↓	↓	WW	40	HCl	2		X								
GW-011314-IW03-Lower	1/13/14	1508	WW	40	H3PO4	5	X									
GW-011314-IW03-Lower	↓	↓	WW	40	HCl	3			X							
GW-011314-IW03-Lower	↓	↓	WW	40	HCl	2		X								
GW-011314-MLO2-1	1/13/14	1617	WW	40	H3PO4	5	X									
GW-011314-MLO2-1	↓	↓	WW	40	HCl	3			X							
GW-011314-MLO2-1	↓	↓	WW	40	HCl	2		X								
Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>							Special Instructions: Full Deliverables needed									
Bottles Relinquished by: <u>Ken Z. ...</u>		Date: <u>1-9-14</u>	Time: <u>1050</u>	Bottles Received by: <u>George Nemeth</u>		Date: <u>1/9/14</u>	Time: _____									
Bottles Relinquished by: <u>George Nemeth</u>		Date: <u>1/17/14</u>	Time: <u>1145</u>	Bottles Received by: <u>W. Ashby</u>		Date: <u>1/17/14</u>	Time: <u>1335</u>									
Bottles Relinquished by: <u>W. Ashby</u>		Date: <u>1-17-14</u>	Time: <u>2011</u>	Bottles Received by: _____		Date: _____	Time: _____									
Bottles Relinquished by: _____		Date: _____	Time: _____	Bottles Received by: _____		Date: <u>1/17/14</u>	Time: <u>2011</u>									



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Analysis Request / Environmental Services Chain of Custody

1 of 1

For Lancaster Laboratories Use Only

Group No.: 1446969 Sample Nos.: 147341016-52
 Acc't: 07032 SF: _____ SCR No.: 150499 Cooler No.: 020497 **27696**
 Cooler Temperature upon receipt: 06-5.8 °C Container No.: 1

Facility Name: Pompton Lakes		Project Manager: George Nemeth		Analyses Required										Comments:					
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735		TOC Quad (SW-846 9060A) Methane, Ethane, Ethene (RSK-175) POM Site List of Volatiles (8260)															
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																	
2000 Cannonball Road		Release No.:																	
Pompton Lakes NJ 07442		PO Number: LBIO-66380																	
Sampler(s): <u>G. Nemeth / M. Ng</u>		Project Name: EISB MONITORING PROGRAM 2013												Condition upon receipt: <u>Intact</u>					
Sample Identification			Date Collected	Time Collected	Matrix	Volume (ml)	Preserv	No.	TOC Quad	Methane, Ethane, Ethene	POM Site List of Volatiles								Condition upon receipt:
GW-011414-MLO2-3			1/14/14	1455	WW	40	H3PO4	5	X										
GW-011414-MLO2-3			↓	↓	WW	40	HCl	3			X								
GW-011414-MLO2-3			↓	↓	WW	40	HCl	2		X									
GW-011414-MLO2-3-D			1/14/14	1455	WW	40	H3PO4	5	X										
GW-011414-MLO2-3-D			↓	↓	WW	40	HCl	3			X								
GW-011414-MLO2-3-D			↓	↓	WW	40	HCl	2		X									
GW-011514-MLO2-2			1/15/14	1015	WW	40	H3PO4	5	X										
GW-011514-MLO2-2			↓	↓	WW	40	HCl	3			X								
GW-011514-MLO2-2			↓	↓	WW	40	HCl	2		X									
Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>										Special Instructions: <u>Full Deliverables needed</u>									
Bottles Relinquished by: <u>George Nemeth</u>			Date: <u>1-9-14</u>	Time: <u>0945</u>	Bottles Received by: <u>George Nemeth</u>			Date: <u>1/9/14</u>	Time: _____										
Bottles Relinquished by: <u>Washington</u>			Date: <u>1/17/14</u>	Time: <u>1145</u>	Bottles Received by: <u>Washington</u>			Date: <u>1/17/14</u>	Time: <u>1325</u>										
Bottles Relinquished by: _____			Date: <u>1-17-14</u>	Time: <u>2011</u>	Bottles Received by: _____			Date: _____	Time: _____										
Bottles Relinquished by: _____			Date: _____	Time: _____	Bottles Received by: _____			Date: <u>1/17/14</u>	Time: <u>2011</u>										



Lancaster Laboratories

Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only

Group No.: 1446969 Sample Nos.: 7341016-52
Acc't: 07032 SF: _____ SCR No.: 150499 Cooler No.: C18980 **27696**
Cooler Temperature upon receipt: 0.C-5.8 °C Container No.: 1-7

Facility Name: Pompton Lakes		Project Manager: George Nemeth		Analyses Required										Comments:																					
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735		<table border="1"> <tr><td>TOC Quad (SW-846 9060A)</td><td>Methane, Ethane, Ethene (RSK-175)</td><td>POM Site List of Volatiles (8260)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>										TOC Quad (SW-846 9060A)	Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)																			
TOC Quad (SW-846 9060A)	Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)																																	
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																																	
2000 Cannonball Road		Release No.:																																	
Pompton Lakes NJ 07442		PO Number: LBIO-66380																																	
Sampler(s): <u>G. Nemeth / Mr. Ng</u>		Project Name: EISB MONITORING PROGRAM 2013												Condition upon receipt: <u>intact</u>																					
Sample Identification				Date Collected	Time Collected	Matrix	Containers																												
							Volume (ml)	Preserv	No.																										
GW-011514-MLO4-6				<u>1/15/14</u>	<u>1042</u>	<u>WW</u>	<u>40</u>	<u>H3PO4</u>	<u>5</u>	<u>X</u>																									
GW-011514-MLO4-6				<u>↓</u>	<u>↓</u>	<u>WW</u>	<u>40</u>	<u>HCl</u>	<u>3</u>		<u>X</u>																								
GW-011514-MLO4-6				<u>↓</u>	<u>↓</u>	<u>WW</u>	<u>40</u>	<u>HCl</u>	<u>2</u>		<u>X</u>																								
GW-011514-MLO2-7				<u>1/15/14</u>	<u>1141</u>	<u>WW</u>	<u>40</u>	<u>H3PO4</u>	<u>5</u>	<u>X</u>																									
GW-011514-MLO2-7				<u>↓</u>	<u>↓</u>	<u>WW</u>	<u>40</u>	<u>HCl</u>	<u>3</u>		<u>X</u>																								
GW-011514-MLO2-7				<u>↓</u>	<u>↓</u>	<u>WW</u>	<u>40</u>	<u>HCl</u>	<u>2</u>		<u>X</u>																								
GW-011514-128-I				<u>1/15/14</u>	<u>1342</u>	<u>WW</u>	<u>40</u>	<u>H3PO4</u>	<u>5</u>	<u>X</u>																									
GW-011514-128-I				<u>↓</u>	<u>↓</u>	<u>WW</u>	<u>40</u>	<u>HCl</u>	<u>3</u>		<u>X</u>																								
GW-011514-128-I				<u>↓</u>	<u>↓</u>	<u>WW</u>	<u>40</u>	<u>HCl</u>	<u>2</u>		<u>X</u>																								
Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>										Special Instructions: <u>Full Deliverables needed</u>																									
Bottles Relinquished by: <u>George Nemeth</u>				Date: <u>1-9-14</u>	Time: <u>1050</u>	Bottles Received by: <u>George Nemeth</u>				Date: <u>1/9/14</u>	Time:																								
Bottles Relinquished by: <u>George Nemeth</u>				Date: <u>1/17/14</u>	Time: <u>1145</u>	Bottles Received by: <u>Washington</u>				Date: <u>1/17/14</u>	Time: <u>1325</u>																								
Bottles Relinquished by: <u>Washington</u>				Date: <u>1-17-14</u>	Time: <u>20:11</u>	Bottles Received by: _____				Date:	Time:																								
Bottles Relinquished by: _____				Date:	Time:	Bottles Received by: _____				Date: <u>1/17/14</u>	Time: <u>2011</u>																								



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Analysis Request / Environmental Services Chain of Custody

1 of 1

For Lancaster Laboratories Use Only

Group No.: 1446969 Sample Nos.: 7341016-52
 Acc't: 07032 SF: 178283 SCR No.: 150499 Cooler No.: C14398 **27690**
 Cooler Temperature upon receipt: 0.6-5.8 °C Container No.: 1-7

Facility Name: Pompton Lakes		Project Manager: George Nemeth		Analyses Required										Comments:										
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735																						
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																						
2000 Cannonball Road		Release No.:																						
Pompton Lakes NJ 07442		PO Number: LBIO-66380																						
Sampler(s): <u>G. Nemeth / M. Ng</u>													Condition upon receipt: <u>intact</u>											
Project Name: EISB MONITORING PROGRAM 2013																								
Sample Identification	Date Collected	Time Collected	Matrix	Containers			Br- (300.0)	Cl- (300.0)	S2- (4500 S2 D)	SO4 (300.0)														
				Volume (ml)	Preserv	No.																		
GW-011514-MLO2-2	1/15/14	1015	WW	40	None	2	X	X	X															MS
GW-011514-MLO2-2	↓	↓	WW	250	NaOH/ZnAc	1			X															MS
GW-011514-MLO2-2	1/15/14	1015	WW	40	None	2	X	X	X															MSD
GW-011514-MLO2-2	↓	↓	WW	250	NaOH/ZnAc	1			X															MSD
GW-011414-MLO2-3 -D	1/14/14	1455	WW	40	None	2	X	X	X															
GW-011414-MLO2-3 -D	↓	↓	WW	250	NaOH/ZnAc	1			X															
GW-011514-MLO4-6	1/15/14	1042	WW	40	None	2	X	X	X															
GW-011514-MLO2-7	1/15/14	1141	WW	40	None	2	X	X	X															
GW-011514-MLO2-7	↓	↓	WW	250	NaOH/ZnAc	1			X															
GW-011514-128-I	1/15/14	1342	WW	40	None	2	X	X	X															
GW-011514-MLO4-4	1/15/14	1428	WW	40	None	2	X	X	X															
Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>							Special Instructions: Full Deliverables needed																	
Bottles Relinquished by: <u>Ken Z. Smith</u>		Date: <u>1-9-14</u>	Time: <u>1320</u>	Bottles Received by: <u>George Nemeth</u>		Date: <u>1/17/14</u>	Time: <u></u>																	
Bottles Relinquished by: <u>George Nemeth</u>		Date: <u>1/17/14</u>	Time: <u>1145</u>	Bottles Received by: <u>W. King</u>		Date: <u>1/12/14</u>	Time: <u>1325</u>																	
Bottles Relinquished by: <u>W. King</u>		Date: <u>1-17-14</u>	Time: <u>2011</u>	Bottles Received by: <u></u>		Date: <u></u>	Time: <u></u>																	
Bottles Relinquished by: <u></u>		Date: <u></u>	Time: <u></u>	Bottles Received by: <u></u>		Date: <u>1/17/14</u>	Time: <u>2011</u>																	



Lancaster
Laboratories

Analysis Request / Environmental Services Chain of Custody

1 of 1

For Lancaster Laboratories Use Only

Group No.: 1446969 Sample Nos.: 7341016-52 C14398
 Acc't: 07032 SF: 178283 SGR No.: 150499 Cooler No.: 27690
 Cooler Temperature upon receipt: 0.6-5.8 °C Container No.: 1-7

Facility Name: Pompton Lakes		Project Manager: George Nemeth			Analyses Required								Comments:						
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735																	
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																	
2000 Cannonball Road		Release No.:																	
Pompton Lakes NJ 07442		PO Number: LBIO-66380																	
Sampler(s):																			
Project Name: EISB MONITORING PROGRAM 2013																			
Sample Identification				Containers			Br- (300.0)	Cl- (300.0)	S2- (4500 S2 D)	SO4 (300.0)									Condition upon receipt:
Date Collected	Time Collected	Matrix	Volume (ml)	Preserv	No.														
GW- 011514 - MLO4-3	1/15/14	1615	WW	40	None	2	X	X		X									intact
GW-			WW	250	NaOH/ZnAc	1													MS (EN)
GW- 011514 - MLO4-3	1/15/14	1615	WW	40	None	2	X	X		X									MSD
GW-			WW	250	NaOH/ZnAc	1													MSD (EN)
GW- 011514 - 128 S	-D	1/15/14	1451	WW	40	None	2	X	X		X								
GW- 011514 - 128 S	-D	↓	↓	WW	250	NaOH/ZnAc	1												(EN)
Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>						Special Instructions: Full Deliverables needed													
Bottles Relinquished by: <u>George Nemeth</u>		Date: <u>1-9-14</u>	Time: <u>1320</u>	Bottles Received by: <u>George Nemeth</u>		Date: <u>1/9/14</u>	Time: <u></u>									Date: <u>1/17/14</u>	Time: <u>1355</u>		
Bottles Relinquished by: <u>George Nemeth</u>		Date: <u>1/17/14</u>	Time: <u>1145</u>	Bottles Received by: <u>Washington</u>		Date: <u>1/17/14</u>	Time: <u>1355</u>									Date: <u>1/17/14</u>	Time: <u>2011</u>		
Bottles Relinquished by: <u>Washington</u>		Date: <u>1/17/14</u>	Time: <u>2011</u>	Bottles Received by: <u>George Nemeth</u>		Date: <u>1/17/14</u>	Time: <u>2011</u>									Date: <u>1/17/14</u>	Time: <u>2011</u>		



Lancaster Laboratories

Analysis Request / Environmental Services Chain of Custody

1 of 2

For Lancaster Laboratories Use Only

Group No.: 1446969 Sample Nos.: 7341016-52
Acc't: 07032 SF: 178283 SCR No.: 150499 Cooler No.: C23537 **27692**
Cooler Temperature upon receipt: 0.6-5.8 °C Container No.: 1-7

Facility Name: Pompton Lakes		Project Manager: George Nemeth		Analyses Required										Comments:							
Facility Contact: George Nemeth		Facility Contact Phone No.: 973-492-7735																			
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																			
2000 Cannonball Road		Release No.:																			
Pompton Lakes NJ 07442		PO Number: LBIO-66380																			
Sampler(s): <u>G. Nemeth/M. Ng</u>																					
Project Name: EISB MONITORING PROGRAM 2013																					
Sample Identification				Containers			Br- (300.0)	Cl- (300.0)	S2- (4500 S2 D)	SO4 (300.0)	TOC Quad (SW-846 9060A)	Methane, Ethane, Ethene (RSK-175)	POM Site List of Volatiles (8260)							Condition upon receipt:	
Date Collected	Time Collected	Matrix	Volume (ml)	Preserv	No.	intact															
<u>W-011514-ML04-3-FB</u>	<u>1/19/14</u>	<u>1630</u>	<u>WW</u>	<u>40</u>	<u>None</u>	<u>2</u>	X	X	X	X											
<u>W- FB</u>	<u>↓</u>	<u>↓</u>	<u>WW</u>	<u>250</u>	<u>NaOH/ZnAc</u>	<u>1</u>			X												
<u>W- FB</u>	<u>↓</u>	<u>↓</u>	<u>WW</u>	<u>40</u>	<u>H3PO4</u>	<u>5</u>				X											
<u>W- FB</u>	<u>↓</u>	<u>↓</u>	<u>WW</u>	<u>40</u>	<u>HCl</u>	<u>3</u>							X								
<u>W- FB</u>	<u>↓</u>	<u>↓</u>	<u>WW</u>	<u>40</u>	<u>HCl</u>	<u>2</u>							X								
<u>W-011314-ML04-1-FB</u>	<u>1/13/14</u>	<u>1110</u>	<u>↓</u>	<u>↓</u>	<u>HCl</u>	<u>3</u>							X								
<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>HCl</u>	<u>2</u>							X								
<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>HCl</u>	<u>2</u>	X	X	X	X											<u>unpreserved vials</u>
<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>H3PO4</u>	<u>5</u>				X											
<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	<u>250 NaOH/ZnAc</u>	<u>1</u>			X	X											
Turnaround Time Requested (please circle): <u>Standard</u> RUSH Number of days: <u>8</u>				Special Instructions: <u>Full Deliverables needed</u>																	
Bottles Relinquished by: <u>George Nemeth</u>		Date: <u>1-9-14</u>	Time: <u>1240</u>	Bottles Received by: <u>George Nemeth</u>		Date: <u>1/19/14</u>	Time: <u></u>														
Bottles Relinquished by: <u>George Nemeth</u>		Date: <u>1/10/14</u>	Time: <u>1145</u>	Bottles Received by: <u>H. Washington</u>		Date: <u>1/17/14</u>	Time: <u>1235</u>														
Bottles Relinquished by: <u>Washington</u>		Date: <u>1/7/14</u>	Time: <u>2011</u>	Bottles Received by: <u></u>		Date: <u></u>	Time: <u></u>														
Bottles Relinquished by: <u></u>		Date: <u></u>	Time: <u></u>	Bottles Received by: <u></u>		Date: <u>1/15/14</u>	Time: <u>2011</u>														

Client: Dupont Pompton Lakes

1446969

EISB Monitoring Program 2013

Delivery and Receipt Information

Delivery Method: ELLE Courier Arrival Timestamp: 01/17/2014 20:11
 Number of Packages: 7 Number of Projects: 1
 State/Province of Origin: NJ

Arrival Condition Summary

Shipping Container Sealed:	<u>No</u>	Trip Blank Present:	<u>Yes</u>
Custody Seal Present:	<u>No</u>	Trip Blank Indicated on COC:	<u>No</u>
Custody Seal Intact:	<u>N/A</u>	Trip Blank Type:	<u>HCl</u>
Samples Chilled:	<u>Yes</u>	Trip Blank Qty:	<u>24</u>
Paperwork Enclosed:	<u>Yes</u>	Air Quality Samples Present:	<u>No</u>
Samples Intact:	<u>Yes</u>	Air Quality Flow Controllers Present:	<u>N/A</u>
Missing Samples:	<u>No</u>	Flow Controller Quantity:	<u>0</u>
Extra Samples:	<u>No</u>	Air Quality Returns:	<u>N/A</u>
Discrepancy in Container Qty on COC:	<u>No</u>		
Sample IDs on COC match Containers:	<u>No</u>		
Sample Date/Times match COC:	<u>No</u>		
VOA Vial Headspace at least 6mm:	<u>No</u>		
VOA IDs (≥ 6mm):	<u>N/A</u>		

General Comments: All trip blank vials labeled W-011614-ML04-7-TB
 Unpacked by Wesley Miller (2308) at 21:55 on 01/17/2014

Samples Chilled Details: EISB Monitoring Program 2013

Cooler #	Thermometer ID	Raw Temp (°C)	Corrected Temp (°C)	Thermometer Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	5.8	5.8	DT	Wet	Y	Bagged	N
2	DT121	5.0	5.0	DT	Wet	Y	Bagged	N
3	DT121	3.9	3.9	DT	Wet	Y	Bagged	N
4	DT121	1.4	1.4	DT	Wet	Y	Bagged	N
5	DT121	1.7	1.7	DT	Wet	Y	Bagged	N
6	DT121	0.6	0.6	DT	Wet	Y	Bagged	N
7	DT121	2.9	2.9	DT	Wet	Y	Bagged	N

Sample ID Discrepancy Details: EISB Monitoring Program 2013

<u>Sample ID on COC</u>	<u>Sample ID on Label</u>	<u>Comments</u>
GW-011314-ML02-5	GW-011414-ML02-5	On COC only sulfide bottles and unpres. vials have 011314 in id
GW-011314-ML02-4	GW-011414-ML02-4	On COC only sulfide bottles and unpres. vials have 011314 in id
GW-011614-ML04-5	GW-011514-ML04-5	Unpres. vials on COC have 011614 in id

1446969

Client: Dupont Pompton Lakes

Sample Date/Time Discrepancy Details: EISB Monitoring Program 2013

<u>Sample ID on COC</u>	<u>Date/Time on Label</u>	<u>Comments</u>
W-011514-ML04-3-FB	1/15/2014 16:15	Sulfide bottle only

Client: Dupont Pompton Lakes

1446969

EISB Monitoring Program 2013

Delivery and Receipt Information

Delivery Method: ELLE Courier Arrival Timestamp: 01/17/2014 20:11
 Number of Packages: 7 Number of Projects: 1
 State/Province of Origin: NJ

Arrival Condition Summary

Shipping Container Sealed:	<u>No</u>	Trip Blank Present:	<u>Yes</u>
Custody Seal Present:	<u>No</u>	Trip Blank Indicated on COC:	<u>No</u>
Custody Seal Intact:	<u>N/A</u>	Trip Blank Type:	<u>HCl</u>
Samples Chilled:	<u>Yes</u>	Trip Blank Qty:	<u>24</u>
Paperwork Enclosed:	<u>Yes</u>	Air Quality Samples Present:	<u>No</u>
Samples Intact:	<u>Yes</u>	Air Quality Flow Controllers Present:	<u>N/A</u>
Missing Samples:	<u>No</u>	Flow Controller Quantity:	<u>0</u>
Extra Samples:	<u>No</u>	Air Quality Returns:	<u>N/A</u>
Discrepancy in Container Qty on COC:	<u>No</u>		
Sample IDs on COC match Containers:	<u>No</u>		
Sample Date/Times match COC:	<u>No</u>		
VOA Vial Headspace at least 6mm:	<u>No</u>		
VOA IDs (≥ 6mm):	<u>N/A</u>		

General Comments: All trip blank vials labeled W-011614-ML04-7-TB
 Unpacked by Wesley Miller (2308) at 21:55 on 01/17/2014

Samples Chilled Details: EISB Monitoring Program 2013

Cooler #	Thermometer ID	Raw Temp (°C)	Corrected Temp (°C)	Thermometer Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT121	5.8	5.8	DT	Wet	Y	Bagged	N
2	DT121	5.0	5.0	DT	Wet	Y	Bagged	N
3	DT121	3.9	3.9	DT	Wet	Y	Bagged	N
4	DT121	1.4	1.4	DT	Wet	Y	Bagged	N
5	DT121	1.7	1.7	DT	Wet	Y	Bagged	N
6	DT121	0.6	0.6	DT	Wet	Y	Bagged	N
7	DT121	2.9	2.9	DT	Wet	Y	Bagged	N

Sample ID Discrepancy Details: EISB Monitoring Program 2013

Sample ID on COC	Sample ID on Label	Comments
GW-011314-ML02-5	GW-011414-ML02-5	On COC only sulfide bottles and unpres. vials have 011314 in id
GW-011314-ML02-4	GW-011414-ML02-4	On COC only sulfide bottles and unpres. vials have 011314 in id
GW-011614-ML04-5	GW-011514-ML04-5	Unpres. vials on COC have 011614 in id

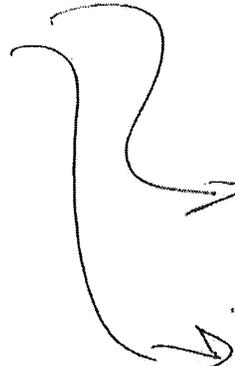
GN corrected on COC
 || || ||
 || || ||

1446969

Client: Dupont Pompton Lakes

Sample Date/Time Discrepancy Details: EISB Monitoring Program 2013

Sample ID on COC	Date/Time on Label	Comments
W-011514-ML04-3-FB	1/15/2014 16:15	Sulfide bottle only



 → 1615 is sample
 GW 011514-ML04-3 MS & MSD
ALSO

 → Field Blank is
 W-011514-ML04-3-FB
 @ 1630 not 1615

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

Inorganic Qualifiers

A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

CRG-E.I.DuPont de Nemours & Co
URS Corporation
Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

February 11, 2014

Project: POM - EISB MONITORING PROGRAM

Submission Date: 01/28/2014
Group Number: 1448797
SDG: POM07
PO Number: LBIO-66380
State of Sample Origin: NJ

Client Sample Description

Lancaster Labs (LL) #

GW-012014-IW02-67-1302 Groundwater	7348128
GW-012014-IW02-47-1257 Groundwater	7348129
GW-012014-IW02-67-1343 Groundwater	7348130
GW-012014-IW02-47-1350 Groundwater	7348131
GW-012014-IW02-67-1436 Groundwater	7348132
GW-012014-IW02-47-1442 Groundwater	7348133
GW-012014-IW02-67-1533 Groundwater	7348134
GW-012014-IW02-47-1539 Groundwater	7348135
GW-012014-IW02-67-1627 Groundwater	7348136
GW-012014-IW02-47-1633 Groundwater	7348137
GW-012114-IW02-67-0816 Groundwater	7348138
GW-012114-IW02-47-0822 Groundwater	7348139
GW-012214-IW02-67-1021 Groundwater	7348140
GW-012214-IW02-47-1026 Groundwater	7348141
GW-012214-IW02-67-1431 Groundwater	7348142
GW-012214-IW02-47-1440 Groundwater	7348143
GW-012314-IW02-67-1350 Groundwater	7348144
GW-012314-IW02-47-1343 Groundwater	7348145
GW-012414-IW02-67-0916 Groundwater	7348146
GW-012414-IW02-47-0922 Groundwater	7348147
GW-012714-IW02-67-0915 Groundwater	7348148
GW-012714-IW02-47-0922 Groundwater	7348149
GW-012014-IW02-TRACER-1230 Groundwater	7348150

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

1 COPY TO Data Package Group

Respectfully Submitted,



Nancy Jean Bornholm
Principal Specialist

(717) 556-7250

Sample Description: GW-012014-IW02-67-1302 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348128
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/20/2014 13:02 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

61302 SDG#: POM07-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	9.7	2.0	2.5	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347601B	01/29/2014 13:23	Sandra J Miller	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-012014-IW02-47-1257 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348129
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/20/2014 12:57 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

41257 SDG#: POM07-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	7.2	2.0	2.5	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347601B	01/29/2014 14:12	Sandra J Miller	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-012014-IW02-67-1343 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348130
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/20/2014 13:43 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

61343 SDG#: POM07-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	9.4	2.0	2.5	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347902A	01/29/2014 16:23	Sandra J Miller	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-012014-IW02-47-1350 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348131
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/20/2014 13:50 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

41350 SDG#: POM07-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	48.9	2.0	2.5	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347902A	01/29/2014 17:12	Sandra J Miller	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-012014-IW02-67-1436 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348132
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/20/2014 14:36 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

61436 SDG#: POM07-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	252	10.0	12.5	25

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347902A	01/30/2014 16:04	Sandra J Miller	25

*=This limit was used in the evaluation of the final result

Sample Description: GW-012014-IW02-47-1442 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348133
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/20/2014 14:42 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

41442 SDG#: POM07-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	66.8	2.0	2.5	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347601B	01/29/2014 14:28	Sandra J Miller	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-012014-IW02-67-1533 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348134
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/20/2014 15:33 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

61533 SDG#: POM07-07

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	267	20.0	25.0	50

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347902A	01/30/2014 17:09	Sandra J Miller	50

*=This limit was used in the evaluation of the final result

Sample Description: GW-012014-IW02-47-1539 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348135
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/20/2014 15:39 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

41539 SDG#: POM07-08

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	77.4	8.0	10.0	20

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347902A	01/30/2014 17:25	Sandra J Miller	20

*=This limit was used in the evaluation of the final result

Sample Description: GW-012014-IW02-67-1627 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348136
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/20/2014 16:27 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

61627 SDG#: POM07-09

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	273	20.0	25.0	50

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347902A	01/30/2014 17:42	Sandra J Miller	50

*=This limit was used in the evaluation of the final result

Sample Description: GW-012014-IW02-47-1633 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348137
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/20/2014 16:33 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

41633 SDG#: POM07-10

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	77.9	4.0	5.0	10

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347601B	01/30/2014 18:40	Sandra J Miller	10

*=This limit was used in the evaluation of the final result

Sample Description: GW-012114-IW02-67-0816 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348138
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/21/2014 08:16 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

60816 SDG#: POM07-11

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	273	20.0	25.0	50

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347902A	01/30/2014 17:58	Sandra J Miller	50

*=This limit was used in the evaluation of the final result

Sample Description: GW-012114-IW02-47-0822 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348139
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/21/2014 08:22 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

40822 SDG#: POM07-12

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	52.0	2.0	2.5	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347601B	01/29/2014 15:00	Sandra J Miller	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-012214-IW02-67-1021 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348140
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/22/2014 10:21 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

61021 SDG#: POM07-13

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	266	20.0	25.0	50

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347902A	01/30/2014 18:14	Sandra J Miller	50

*=This limit was used in the evaluation of the final result

Sample Description: GW-012214-IW02-47-1026 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348141
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/22/2014 10:26 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

41026 SDG#: POM07-14

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	36.7	2.0	2.5	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347601B	01/29/2014 15:16	Sandra J Miller	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-012214-IW02-67-1431 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348142
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/22/2014 14:31 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

61431 SDG#: POM07-15

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	252	20.0	25.0	50

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347902A	01/30/2014 18:30	Sandra J Miller	50

*=This limit was used in the evaluation of the final result

Sample Description: GW-012214-IW02-47-1440 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348143
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/22/2014 14:40 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

41440 SDG#: POM07-16

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	22.7	2.0	2.5	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347601B	01/29/2014 15:33	Sandra J Miller	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-012314-IW02-67-1350 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348144
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/23/2014 13:50 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

61350 SDG#: POM07-17

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	258	10.0	12.5	25

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347902A	01/30/2014 18:46	Sandra J Miller	25

*=This limit was used in the evaluation of the final result

Sample Description: GW-012314-IW02-47-1343 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348145
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/23/2014 13:43 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

41343 SDG#: POM07-18

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	16.6	2.0	2.5	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347601B	01/29/2014 16:21	Sandra J Miller	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-012414-IW02-67-0916 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348146
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/24/2014 09:16 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center
4051 Ogletown Road, Suite 300
Newark DE 19713

60916 SDG#: POM07-19

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	146	8.0	10.0	20

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14031347601B	01/31/2014 15:21	Sandra J Miller	20

*=This limit was used in the evaluation of the final result

Sample Description: GW-012414-IW02-47-0922 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348147
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/24/2014 09:22 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

40922 SDG#: POM07-20

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	12.8	2.0	2.5	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347601B	01/29/2014 16:37	Sandra J Miller	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-012714-IW02-67-0915 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348148
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/27/2014 09:15 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

60915 SDG#: POM07-21

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	92.9	8.0	10.0	20

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14031347601B	01/31/2014 16:09	Sandra J Miller	20

*=This limit was used in the evaluation of the final result

Sample Description: GW-012714-IW02-47-0922 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348149
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/27/2014 09:22 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

09224 SDG#: POM07-22

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	7.9	2.0	2.5	5

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14029347601B	01/29/2014 16:53	Sandra J Miller	5

*=This limit was used in the evaluation of the final result

Sample Description: GW-012014-IW02-TRACER-1230 Groundwater
POM List
EISB MONITORING PROGRAM 2014

LL Sample # WW 7348150
LL Group # 1448797
Account # 07032

Project Name: POM - EISB MONITORING PROGRAM

Collected: 01/20/2014 12:30 by LZ

CRG-E.I.DuPont de Nemours & Co

Submitted: 01/28/2014 09:50

URS Corporation

Reported: 02/11/2014 11:35

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark DE 19713

T1230 SDG#: POM07-23*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
Wet Chemistry						
	EPA 300.0		mg/l	mg/l	mg/l	
01505	Bromide	24959-67-9	472	20.0	25.0	50

General Sample Comments

State of New Jersey Lab Certification No. PA011

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01505	Bromide	EPA 300.0	1	14031347601B	02/03/2014 19:23	Sandra J Miller	50

*=This limit was used in the evaluation of the final result

Quality Control Summary

Client Name: CRG-E.I.DuPont de Nemours & Co
Reported: 02/11/14 at 11:35 AM

Group Number: 1448797

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL**</u>	<u>Blank LOQ</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: 14029347601B	Sample number(s): 7348128-7348129,7348133,7348137,7348139,7348141,7348143,7348145,7348147,7348149								
Bromide	0.40 U	0.40	0.50	mg/l	98		90-110		
Batch number: 14029347902A	Sample number(s): 7348130-7348132,7348134-7348136,7348138,7348140,7348142,7348144								
Bromide	0.40 U	0.40	0.50	mg/l	95		90-110		
Batch number: 14031347601B	Sample number(s): 7348146,7348148,7348150								
Bromide	0.40 U	0.40	0.50	mg/l	97		90-110		

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: 14029347601B	Sample number(s): 7348128-7348129,7348133,7348137,7348139,7348141,7348143,7348145,7348147,7348149 UNSPK: 7348128 BKG: 7348128								
Bromide	98		90-110			9.7	9.7	0 (1)	20
Batch number: 14029347902A	Sample number(s): 7348130-7348132,7348134-7348136,7348138,7348140,7348142,7348144 UNSPK: 7348130 BKG: 7348130								
Bromide	98		90-110			9.4	9.7	2 (1)	20
Batch number: 14031347601B	Sample number(s): 7348146,7348148,7348150 UNSPK: P350969 BKG: P350969								
Bromide	103		90-110			2.0 U	2.0 U	0 (1)	20

*- Outside of specification

** - This limit was used in the evaluation of the final result for the blank

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody



Lancaster Laboratories Environmental

Acct. # 7032 For Eurofins Lancaster Laboratories Environmental use only
 Group # 1448797 Sample # 7348128-50
Instructions on reverse side correspond with circled numbers.

COC # 342762

1 Client Information				4 Matrix				5 Analysis Requested								For Lab Use Only							
Client: <u>Pompton Lakes / Christina Faust</u>		Acct. #:		Sediment <input type="checkbox"/> Potable <input type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Water <input type="checkbox"/> NPDES <input type="checkbox"/> Other: <input type="checkbox"/>	Total # of Containers <u>Br-(300.0)</u>	Preservation Codes								FSC: <u>151899</u>									
Project Name/#: <u>Pompton Lakes works</u> <u>2000 Conestoga Rd Pompton Lakes, NJ</u>		PWSID #:				<table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr> <th colspan="2">Preservation Codes</th> </tr> <tr> <td>H=HCl</td> <td>T=Thiosulfate</td> </tr> <tr> <td>N=HNO₃</td> <td>B=NaOH</td> </tr> <tr> <td>S=H₂SO₄</td> <td>O=Other</td> </tr> </table>								Preservation Codes		H=HCl	T=Thiosulfate	N=HNO ₃	B=NaOH	S=H ₂ SO ₄	O=Other	SCR#: <u>151899</u>	
Preservation Codes																							
H=HCl	T=Thiosulfate																						
N=HNO ₃	B=NaOH																						
S=H ₂ SO ₄	O=Other																						
Project Manager: <u>Christina Faust</u> <u>973-492-7706</u>		P.O. #: <u>LBIO-06380</u>		Quote # <u>9267 7780100C</u> Job # <u>WH06507882</u>		<table border="1" style="width: 100%; height: 100%; border-collapse: collapse;"> <tr> <th colspan="2">6 Remarks</th> </tr> <tr> <td colspan="2" style="height: 100px;"> </td> </tr> </table>								6 Remarks									
6 Remarks																							
Sampler: <u>Laura Zimmerman</u>		Name of state where samples were collected:																					
2 Sample Identification		3 Collected		3 Grab	3 Composite	Soil <input type="checkbox"/>	Water	Other:	Total # of Containers	Analysis Requested								For Lab Use Only					
		Date	Time																				
<u>GW-012014-IW02-67-1302</u>		<u>1/20/14</u>	<u>1302</u>				<u>ww</u>		<u>1</u>	<u>X</u>													
<u>GW-012014-IW02-47-1257</u>			<u>1257</u>							<u>X</u>													
<u>GW-012014-IW02-67-1343</u>			<u>1343</u>							<u>X</u>													
<u>GW-012014-IW02-47-1350</u>			<u>1350</u>							<u>X</u>													
<u>GW-012014-IW02-67-1436</u>			<u>1436</u>							<u>X</u>													
<u>GW-012014-IW02-47-1442</u>			<u>1442</u>							<u>X</u>													
<u>GW-012014-IW02-67-1533</u>			<u>1533</u>							<u>X</u>													
<u>GW-012014-IW02-47-1539</u>			<u>1539</u>							<u>X</u>													
<u>GW-012014-IW02-67-1627</u>			<u>1627</u>							<u>X</u>													
<u>GW-012014-IW02-47-1633</u>			<u>1633</u>							<u>X</u>													

7 Turnaround Time (TAT) Requested (please circle)

Standard Rush

(Rush TAT is subject to laboratory approval and surcharge.)

Date results are needed: _____

E-mail address: _____

Relinquished by: <u>Anne S. Montgomery</u>	Date: <u>1/22/14</u>	Time: <u>1440</u>	Received by: <u>Carly Nter</u>	Date: <u>1/22/14</u>	Time: <u>1440</u>
Relinquished by: <u>Carly Nter</u>	Date: <u>1/27/14</u>	Time: <u>1500</u>	Received by: <u>UPS</u>	Date: <u>1/27/14</u>	Time: <u>1500</u>
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: <u>1/28/14</u>	Time: <u>0950</u>

8 Data Package Options (circle if required)

Type I (Validation/non-CLP) Type VI (Raw Data Only)

Type III (Reduced non-CLP) TX TRRP-13

Type IV (CLP SOW) MA MCP CT RCP

EDD Required? Yes No

If yes, format: _____

Relinquished by Commercial Carrier: _____

UPS FedEx _____ Other _____

Site-Specific QC (MS/MSD/Dup)? Yes No

(If yes, indicate QC sample and submit triplicate sample volume.)

Temperature upon receipt 0.2 °C



Lancaster Laboratories

Analysis Request / Environmental Services Chain of Custody

For Lancaster Laboratories Use Only

Group No.: 1448797 Sample Nos.: 7348/28-50

Acc't: 07032 SF: 178283 SCR No.: 150748 Cooler No.:

27893

Cooler Temperature upon receipt: 0.1 °C Container No.: 1

Facility Name: Pompton Lakes		Project Manager: Christina Faust		Analyses Required										Comments:							
Facility Contact: Christina Faust		Facility Contact Phone No.: 973-492-7706																			
Facility Address: Pompton Lakes Works		Job No.: 9267 7720100C WH06 507882																			
2000 Cannonball Road		Release No.:																			
Pompton Lakes NJ 07442		PO Number: LBIO-66380																			
Sampler(s): <i>Laura Zimmerman</i>		Project Name: EISB MONITORING PROGRAM 2014																			
				Containers			Br- (300.0)											Condition upon receipt:			
Sample Identification		Date Collected	Time Collected	Matrix	Volume (ml)	Preserv		No.											<i>Intact</i>		
GW-012114-IW02-67-0816		1/21/14	8:16	WW	40	None		1	X												
GW-012114-IW02-47-0822		1/21/14	8:22					1	X												
GW-012214-IW02-67-1021		1/22/14	10:21					1	X												
GW-012214-IW02-47-1026		1/22/14	10:26					1	X												
GW-012214-IW02-67-1431		1/22/14	14:31					1	X												
GW-012214-IW02-47-1440		1/22/14	14:40					1	X												
GW-012314-IW02-67-1350		1/23/14	13:50					1	X												
GW-012314-IW02-47-1343		1/23/14	13:43					1	X												
GW-012414-IW02-67-0916		1/24/14	9:16					1	X												
GW-012414-IW02-47-0922		1/24/14	9:22				1	X													
GW-012714-IW02-67-0915		1/27/14	09:15				1	X													
Turnaround Time Requested (please circle): <u>Normal</u> Rush Number of days: <u>14</u>							Special Instructions:														
Bottles Relinquished by: <i>Carly Ather</i>		Date: 1/27/14	Time: 1500	Bottles Received by: <i>UPS</i>		Date: 1/27/14	Time: 1500														
Bottles Relinquished by:		Date:	Time:	Bottles Received by:		Date:	Time:														
Bottles Relinquished by:		Date:	Time:	Bottles Received by:		Date:	Time:														
Bottles Relinquished by:		Date:	Time:	Bottles Received by: <i>MJ</i>		Date: 1/28/14	Time: 09:50														

Client: Pompton Lakes

EISB MONITORING PROGRAM 2014

Delivery and Receipt Information

Delivery Method: UPS Arrival Timestamp: 01/28/2014 9:50
 Number of Packages: 1 Number of Projects: 1
 State/Province of Origin: NJ

Arrival Condition Summary

Shipping Container Sealed:	<u>Yes</u>	Trip Blank Present:	<u>No</u>
Custody Seal Present:	<u>Yes</u>	Trip Blank Indicated on COC:	<u>N/A</u>
Custody Seal Intact:	<u>Yes</u>	Trip Blank Type:	<u>N/A</u>
Samples Chilled:	<u>Yes</u>	Trip Blank Qty:	<u>0</u>
Paperwork Enclosed:	<u>Yes</u>	Air Quality Samples Present:	<u>No</u>
Samples Intact:	<u>Yes</u>	Air Quality Flow Controllers Present:	<u>N/A</u>
Missing Samples:	<u>No</u>	Flow Controller Quantity:	<u>0</u>
Extra Samples:	<u>No</u>	Air Quality Returns:	<u>N/A</u>
Discrepancy in Container Qty on COC:	<u>No</u>		
Sample IDs on COC match Containers:	<u>Yes</u>		
Sample Date/Times match COC:	<u>Yes</u>		
VOA Vial Headspace \geq 6mm:	<u>No</u>		
VOA IDs (\geq 6mm):	<u>N/A</u>		

Unpacked by Joseph Gruber (5200) at 10:33 on 01/28/2014

Samples Chilled Details: EISB MONITORING PROGRAM 2014

Thermometer Types: DT = Digital IR = Infrared

Cooler #	Thermometer ID	Raw Temp (°C)	Corrected Temp (°C)	Thermometer Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	0.2	0.2	DT	Wet	Y	Bagged	N

General Comments:

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
C	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
µg	microgram(s)	mg	milligram(s)
mL	milliliter(s)	L	liter(s)
m³	cubic meter(s)	µL	microliter(s)
		pg/L	picogram/liter

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Data Qualifiers:

C – result confirmed by reanalysis.

J - estimated value – The result is \geq the Method Detection Limit (MDL) and $<$ the Limit of Quantitation (LOQ).

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

Inorganic Qualifiers

A	TIC is a possible aldol-condensation product	B	Value is $<$ CRDL, but \geq IDL
B	Analyte was also detected in the blank	E	Estimated due to interference
C	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quantitated on a diluted sample	N	Spike sample not within control limits
E	Concentration exceeds the calibration range of the instrument	S	Method of standard additions (MSA) used for calculation
N	Presumptive evidence of a compound (TICs only)	U	Compound was not detected
P	Concentration difference between primary and confirmation columns $>$ 25%	W	Post digestion spike out of control limits
U	Compound was not detected	*	Duplicate analysis not within control limits
X,Y,Z	Defined in case narrative	+	Correlation coefficient for MSA $<$ 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

ANALYTICAL REPORT

Job Number: 200-20520-1

SDG Number: 200-20520

Job Description: EISB Pompton Lakes

For:

URS Corporation

C/O Dupont

Iron Hill Corporate Center

4051 Ogletown Road, Suite 300

Newark, DE 19713

Attention: Ms. Candia Carle



Approved for release.
Don C Dawicki
Manager of Project Management
1/31/2014 3:48 PM

Don C Dawicki, Manager of Project Management
30 Community Drive, South Burlington, VT, 05403
(802)660-1990
don.dawicki@testamericainc.com
01/31/2014

cc: Ms. Norma Eichlin

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

TestAmerica Laboratories, Inc.

TestAmerica Burlington 30 Community Drive, Suite 11, South Burlington, VT 05403

Tel (802) 660-1990 Fax (802) 660-1919 www.testamericainc.com



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**ANALYTICAL DATA PACKAGE FOR THE
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NEW JERSEY 08625**

Agency/Division:	NA	Bureau/Office:	NA
Project No:	NA	Contract No.:	NA
Laboratory Name:	TestAmerica Laboratories	Laboratory Location:	South Burlington, Vermont
SDG or Batch No.:	200-20520	NJDEP Certification No.:	VT972
Date of First Sample Receipt:	01/17/2014	Date of Last Sample Receipt:	01/17/2014

Agency Sample Number	Laboratory Sample Number	Sample Location	Date and Time of Collection
AA-011614-SGP-01	200-20520-2	AA-011614-SGP-01	01/16/2014 12:51
SG-011614-SGP-01	200-20520-1	SG-011614-SGP-01	01/16/2014 12:51

I certify that this data package is in compliance with the terms and conditions of this contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in the hardcopy data package and in the computer-readable data submitted on disk or electronically has been authorized by the laboratory manager or his/her designee, as verified by the following signature.

Laboratory Manager (Typed):	Kirstin Daigle	Date:
Laboratory Manager (Signature):		
Quality Assurance Manager (Typed):	Sara Goff	Date:
Quality Assurance Manager (Signature):		

TestAmerica Burlington

30 Community Drive

Suite 11

South Burlington, VT 05403

phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information		Project Manager: <i>Norma Eichhorn</i>		Samples Collected By: <i>GN</i>		1 of 1 COCS																													
Company:	<i>E.I. DuPont</i>	Phone:	<i>973-492-7703</i>																																
Address:	<i>3000 Cannonball Rd.</i>	Email:	<i>norma.eichhorn@eg.com</i>																																
City/State/Zip:	<i>Wilmington, NJ</i>	Site Contact:																																	
Phone:	<i>973-492-7735</i>	TA Contact:																																	
FAX:	<i>973-492-7703</i>	Analysis Turnaround Time:																																	
Project Name:	<i>EISB</i>	Standard (Specify):	<i>14-dys</i>																																
Site:	<i>DuPont / Pompton Lakes</i>	Rush (Specify):																																	
PO #:	<i>50-7882</i>																																		
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)																
<i>SG-011614 - SGP-01</i>	<i>1/16/14</i>	<i>27:23</i>	<i>12:51</i>	<i>27.93</i>	<i>3.22</i>	<i>4675</i>	<i>4840</i>	<i>X</i>																											
<i>AA-011614 - SGP-01</i>	<i>1/16/14</i>	<i>12:46</i>	<i>12:51</i>	<i>28.94</i>	<i>3.54</i>	<i>4626</i>	<i>4641</i>	<i>X</i>																											
<p>Temperature (Fahrenheit)</p> <table border="1"> <tr> <td>Interior</td> <td></td> </tr> <tr> <td>Ambient</td> <td><i>42.8</i></td> </tr> <tr> <td>Start</td> <td></td> </tr> <tr> <td>Stop</td> <td><i>42.8</i></td> </tr> </table> <p>Pressure (Inches of Hg)</p> <table border="1"> <tr> <td>Interior</td> <td></td> </tr> <tr> <td>Ambient</td> <td></td> </tr> <tr> <td>Start</td> <td></td> </tr> <tr> <td>Stop</td> <td></td> </tr> </table>																				Interior		Ambient	<i>42.8</i>	Start		Stop	<i>42.8</i>	Interior		Ambient		Start		Stop	
Interior																																			
Ambient	<i>42.8</i>																																		
Start																																			
Stop	<i>42.8</i>																																		
Interior																																			
Ambient																																			
Start																																			
Stop																																			
<p>Special Instructions/QC Requirements & Comments:</p> <p><i>EISB Sampling Program</i></p>																																			
Samples Shipped by:		<i>FedEx</i>		Date/Time:		<i>1/16/14</i>		Samples Received by:																											
Samples Relinquished by:		<i>Norma</i>		Date/Time:		<i>1/16/14</i>		Received by:																											
Relinquished by:		<i>Norma</i>		Date/Time:		<i>1/17/14</i>		Received by:		<i>Scott - JAR</i>																									
Lab Use Only		Shipper Name		Opened by:		Condition																													

From: (973) 492-7729
David Epps
2000 Cannonball Road
Pompton Lakes, NJ 07442

Origin ID: GMVA



Ship Date: 16JAN14
ActWgt: 9.0 LB
CAD: 102577111/INET3430

Delivery Address Bar Code



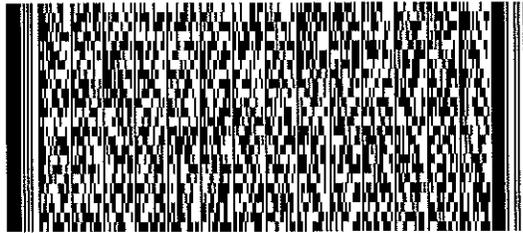
SHIP TO: (802) 660-1990
Sample Receiving
Test America
30 Community Drive
Suite 11
South Burlington, VT 05403

BILL THIRD PARTY

Ref #
Invoice #
PO #
Dept #

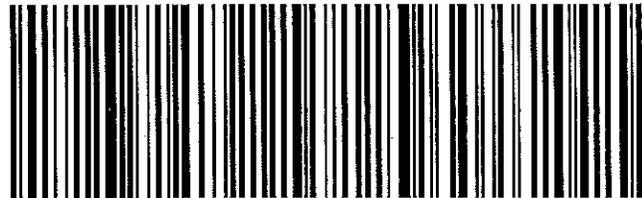
FRI - 17 JAN AA
STANDARD OVERNIGHT

TRK# 7976 5234 6418
0201



EK BTVA

05403
VT-US
BTV



51AG1/08EC1A9E

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

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Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 200-20520-1

SDG Number: 200-20520

Login Number: 20520

List Source: TestAmerica Burlington

List Number: 1

Creator: Gagne, Eric M

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	NO NUMBERS
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	AMBIENT.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
ATT15LLCAL4w_00089	03/04/14	12/11/13		15.463 L	ATTO15CAL6w_00081	155 mL	1,1,1-Trichloroethane	0.20044 ppb v/v
							1,1,2,2-Tetrachloroethane	0.20044 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.20044 ppb v/v
							1,1,2-Trichloroethane	0.20044 ppb v/v
							1,1-Dichloroethane	0.20044 ppb v/v
							1,1-Dichloroethene	0.20044 ppb v/v
							1,2,4-Trichlorobenzene	0.20044 ppb v/v
							1,2,4-Trimethylbenzene	0.20044 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.20044 ppb v/v
							1,2-Dichlorobenzene	0.20044 ppb v/v
							1,2-Dichloroethane	0.20044 ppb v/v
							1,2-Dichloroethene, cis-	0.20044 ppb v/v
							1,2-Dichloroethene, trans-	0.20044 ppb v/v
							1,2-Dichloropropane	0.20044 ppb v/v
							1,3,5-Trimethylbenzene	0.20044 ppb v/v
							1,3-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dichlorobenzene	0.20044 ppb v/v
							1,4-Dioxane	0.20044 ppb v/v
							2-Butanone (MEK)	0.20044 ppb v/v
							2-Chlorotoluene	0.20044 ppb v/v
2-Methyl-2-propanol	0.20044 ppb v/v							
3-Chloro-1-propene	0.20044 ppb v/v							
4-Ethyltoluene	0.20044 ppb v/v							
4-Methyl-2-pentanone (MIBK)	0.20044 ppb v/v							
Acetone	0.20044 ppb v/v							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	0.20044 ppb v/v
							Bromoform	0.20044 ppb v/v
							Bromomethane	0.20044 ppb v/v
							Butadiene	0.20044 ppb v/v
							Carbon disulfide	0.20044 ppb v/v
							Carbon tetrachloride	0.20044 ppb v/v
							Chlorobenzene	0.20044 ppb v/v
							Chlorodibromomethane	0.20044 ppb v/v
							Chloroethane	0.20044 ppb v/v
							Chloroform	0.20044 ppb v/v
							Chloromethane	0.20044 ppb v/v
							cis-1,3-Dichloropropene	0.20044 ppb v/v
							Cyclohexane	0.20044 ppb v/v
							Dichlorobromomethane	0.20044 ppb v/v
							Dichlorodifluoromethane	0.20044 ppb v/v
							Ethylbenzene	0.20044 ppb v/v
							Ethylene Dibromide	0.20044 ppb v/v
							Hexachlorobutadiene	0.20044 ppb v/v
							Hexane	0.20044 ppb v/v
							Isooctane	0.20044 ppb v/v
							Isopropyl alcohol	0.20044 ppb v/v
							m-Xylene & p-Xylene	0.400879 ppb v/v
							Methyl methacrylate	0.20044 ppb v/v
							Methyl tert-butyl ether	0.20044 ppb v/v
							Methylene Chloride	0.20044 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Heptane	0.20044 ppb v/v
							o-Xylene	0.20044 ppb v/v
							Styrene	0.20044 ppb v/v
							Tetrachloroethene	0.20044 ppb v/v
							Tetrahydrofuran	0.20044 ppb v/v
							Toluene	0.20044 ppb v/v
							trans-1,3-Dichloropropene	0.20044 ppb v/v
							Trichloroethene	0.20044 ppb v/v
							Trichlorofluoromethane	0.20044 ppb v/v
							Vinyl bromide	0.20044 ppb v/v
							Vinyl chloride	0.20044 ppb v/v
.ATTO15CAL6w_00081	03/04/14	12/09/13	DI WATER, Lot 3212	15.463 L	ATTO15CALSTKi_00050	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
..ATTO15CALSTKi_00050	03/04/14	12/04/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00014	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
...ATTO15CALs_00014	12/12/14		Spectra Gases, Lot cc-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL2w_00112	03/04/14	12/09/13	DI WATER, Lot 2519	15.463 L	ATTO15CAL6w_00081	387 mL	1,1,1-Trichloroethane	0.500453 ppb v/v
							1,1,2,2-Tetrachloroethane	0.500453 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	0.500453 ppb v/v
							1,1,2-Trichloroethane	0.500453 ppb v/v
							1,1-Dichloroethane	0.500453 ppb v/v
							1,1-Dichloroethene	0.500453 ppb v/v
							1,2,4-Trichlorobenzene	0.500453 ppb v/v
							1,2,4-Trimethylbenzene	0.500453 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.500453 ppb v/v
							1,2-Dichlorobenzene	0.500453 ppb v/v
							1,2-Dichloroethane	0.500453 ppb v/v
							1,2-Dichloroethene, cis-	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethene, trans-	0.500453 ppb v/v
							1,2-Dichloropropane	0.500453 ppb v/v
							1,3,5-Trimethylbenzene	0.500453 ppb v/v
							1,3-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dichlorobenzene	0.500453 ppb v/v
							1,4-Dioxane	0.500453 ppb v/v
							2-Butanone (MEK)	0.500453 ppb v/v
							2-Chlorotoluene	0.500453 ppb v/v
							2-Methyl-2-propanol	0.500453 ppb v/v
							3-Chloro-1-propene	0.500453 ppb v/v
							4-Ethyltoluene	0.500453 ppb v/v
							4-Methyl-2-pentanone (MIBK)	0.500453 ppb v/v
							Acetone	0.500453 ppb v/v
							Benzene	0.500453 ppb v/v
							Bromoform	0.500453 ppb v/v
							Bromomethane	0.500453 ppb v/v
							Butadiene	0.500453 ppb v/v
							Carbon disulfide	0.500453 ppb v/v
							Carbon tetrachloride	0.500453 ppb v/v
							Chlorobenzene	0.500453 ppb v/v
							Chlorodibromomethane	0.500453 ppb v/v
							Chloroethane	0.500453 ppb v/v
							Chloroform	0.500453 ppb v/v
							Chloromethane	0.500453 ppb v/v
							cis-1,3-Dichloropropene	0.500453 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	0.500453 ppb v/v
							Dichlorobromomethane	0.500453 ppb v/v
							Dichlorodifluoromethane	0.500453 ppb v/v
							Ethylbenzene	0.500453 ppb v/v
							Ethylene Dibromide	0.500453 ppb v/v
							Hexachlorobutadiene	0.500453 ppb v/v
							Hexane	0.500453 ppb v/v
							Isooctane	0.500453 ppb v/v
							Isopropyl alcohol	0.500453 ppb v/v
							m-Xylene & p-Xylene	1.00091 ppb v/v
							Methyl methacrylate	0.500453 ppb v/v
							Methyl tert-butyl ether	0.500453 ppb v/v
							Methylene Chloride	0.500453 ppb v/v
							n-Heptane	0.500453 ppb v/v
							o-Xylene	0.500453 ppb v/v
							Styrene	0.500453 ppb v/v
							Tetrachloroethene	0.500453 ppb v/v
							Tetrahydrofuran	0.500453 ppb v/v
							Toluene	0.500453 ppb v/v
							trans-1,3-Dichloropropene	0.500453 ppb v/v
							Trichloroethene	0.500453 ppb v/v
							Trichlorofluoromethane	0.500453 ppb v/v
							Vinyl bromide	0.500453 ppb v/v
							Vinyl chloride	0.500453 ppb v/v
.ATTO15CAL6w_00081	03/04/14	12/09/13	DI WATER, Lot 3212	15.463 L	ATTO15CALSTKi_00050	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v
							2-Methyl-2-propanol	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v
							Isopropyl alcohol	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
..ATTO15CALSTKi_00050	03/04/14	12/04/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00014	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
...ATTO15CALs_00014	12/12/14		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	1 ppm v/v
ATTO15CAL3w_00120	03/04/14	12/09/13	DI WATER, Lot 3503	15.463 L	ATTO15CALSTKi_00050	386 mL	1,1,1-Trichloroethane	4.99256 ppb v/v
							1,1,2,2-Tetrachloroethane	4.99256 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	4.99256 ppb v/v
							1,1,2-Trichloroethane	4.99256 ppb v/v
							1,1-Dichloroethane	4.99256 ppb v/v
							1,1-Dichloroethene	4.99256 ppb v/v
							1,2,4-Trichlorobenzene	4.99256 ppb v/v
							1,2,4-Trimethylbenzene	4.99256 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	4.99256 ppb v/v
							1,2-Dichlorobenzene	4.99256 ppb v/v
							1,2-Dichloroethane	4.99256 ppb v/v
							1,2-Dichloroethene, cis-	4.99256 ppb v/v
							1,2-Dichloroethene, trans-	4.99256 ppb v/v
							1,2-Dichloropropane	4.99256 ppb v/v
							1,3,5-Trimethylbenzene	4.99256 ppb v/v
							1,3-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dichlorobenzene	4.99256 ppb v/v
							1,4-Dioxane	4.99256 ppb v/v
							2-Butanone (MEK)	4.99256 ppb v/v
							2-Chlorotoluene	4.99256 ppb v/v
2-Methyl-2-propanol	4.99256 ppb v/v							
3-Chloro-1-propene	4.99256 ppb v/v							
4-Ethyltoluene	4.99256 ppb v/v							
4-Methyl-2-pentanone (MIBK)	4.99256 ppb v/v							

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	4.99256 ppb v/v
							Benzene	4.99256 ppb v/v
							Bromoform	4.99256 ppb v/v
							Bromomethane	4.99256 ppb v/v
							Butadiene	4.99256 ppb v/v
							Carbon disulfide	4.99256 ppb v/v
							Carbon tetrachloride	4.99256 ppb v/v
							Chlorobenzene	4.99256 ppb v/v
							Chlorodibromomethane	4.99256 ppb v/v
							Chloroethane	4.99256 ppb v/v
							Chloroform	4.99256 ppb v/v
							Chloromethane	4.99256 ppb v/v
							cis-1,3-Dichloropropene	4.99256 ppb v/v
							Cyclohexane	4.99256 ppb v/v
							Dichlorobromomethane	4.99256 ppb v/v
							Dichlorodifluoromethane	4.99256 ppb v/v
							Ethylbenzene	4.99256 ppb v/v
							Ethylene Dibromide	4.99256 ppb v/v
							Hexachlorobutadiene	4.99256 ppb v/v
							Hexane	4.99256 ppb v/v
							Isooctane	4.99256 ppb v/v
							Isopropyl alcohol	4.99256 ppb v/v
							m-Xylene & p-Xylene	9.98513 ppb v/v
							Methyl methacrylate	4.99256 ppb v/v
							Methyl tert-butyl ether	4.99256 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	4.99256 ppb v/v
							n-Heptane	4.99256 ppb v/v
							o-Xylene	4.99256 ppb v/v
							Styrene	4.99256 ppb v/v
							Tetrachloroethene	4.99256 ppb v/v
							Tetrahydrofuran	4.99256 ppb v/v
							Toluene	4.99256 ppb v/v
							trans-1,3-Dichloropropene	4.99256 ppb v/v
							Trichloroethene	4.99256 ppb v/v
							Trichlorofluoromethane	4.99256 ppb v/v
							Vinyl bromide	4.99256 ppb v/v
							Vinyl chloride	4.99256 ppb v/v
.ATTO15CALSTKi_00050	03/04/14	12/04/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00014	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00014	12/12/14		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL4w_00322	03/04/14	12/09/13	DI WATER, Lot 2782	15.463 L	ATTO15CALSTKi_00050	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1,2,2-Tetrachloroethane	9.99806 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	9.99806 ppb v/v
							1,1,2-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2,4-Trichlorobenzene	9.99806 ppb v/v
							1,2,4-Trimethylbenzene	9.99806 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	9.99806 ppb v/v
							1,2-Dichlorobenzene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, cis-	9.99806 ppb v/v
							1,2-Dichloroethene, trans-	9.99806 ppb v/v
							1,2-Dichloropropane	9.99806 ppb v/v
							1,3,5-Trimethylbenzene	9.99806 ppb v/v
							1,3-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dichlorobenzene	9.99806 ppb v/v
							1,4-Dioxane	9.99806 ppb v/v
							2-Butanone (MEK)	9.99806 ppb v/v
							2-Chlorotoluene	9.99806 ppb v/v
							2-Methyl-2-propanol	9.99806 ppb v/v
							3-Chloro-1-propene	9.99806 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Ethyltoluene	9.99806 ppb v/v
							4-Methyl-2-pentanone (MIBK)	9.99806 ppb v/v
							Acetone	9.99806 ppb v/v
							Benzene	9.99806 ppb v/v
							Bromoform	9.99806 ppb v/v
							Bromomethane	9.99806 ppb v/v
							Butadiene	9.99806 ppb v/v
							Carbon disulfide	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Chlorobenzene	9.99806 ppb v/v
							Chlorodibromomethane	9.99806 ppb v/v
							Chloroethane	9.99806 ppb v/v
							Chloroform	9.99806 ppb v/v
							Chloromethane	9.99806 ppb v/v
							cis-1,3-Dichloropropene	9.99806 ppb v/v
							Cyclohexane	9.99806 ppb v/v
							Dichlorobromomethane	9.99806 ppb v/v
							Dichlorodifluoromethane	9.99806 ppb v/v
							Ethylbenzene	9.99806 ppb v/v
							Ethylene Dibromide	9.99806 ppb v/v
							Hexachlorobutadiene	9.99806 ppb v/v
							Hexane	9.99806 ppb v/v
							Isooctane	9.99806 ppb v/v
							Isopropyl alcohol	9.99806 ppb v/v
							m-Xylene & p-Xylene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl methacrylate	9.99806 ppb v/v
							Methyl tert-butyl ether	9.99806 ppb v/v
							Methylene Chloride	9.99806 ppb v/v
							n-Heptane	9.99806 ppb v/v
							o-Xylene	9.99806 ppb v/v
							Styrene	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Tetrahydrofuran	9.99806 ppb v/v
							Toluene	9.99806 ppb v/v
							trans-1,3-Dichloropropene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Trichlorofluoromethane	9.99806 ppb v/v
							Vinyl bromide	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
.ATTO15CALSTKi_00050	03/04/14	12/04/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00014	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00014	12/12/14		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL5w_00042	03/04/14	12/09/13	DI WATER, Lot 3141	15.463 L	ATTO15CALSTKi_00050	1160 mL	1,1,1-Trichloroethane	15.0036 ppb v/v
							1,1,2,2-Tetrachloroethane	15.0036 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	15.0036 ppb v/v
							1,1,2-Trichloroethane	15.0036 ppb v/v
							1,1-Dichloroethane	15.0036 ppb v/v
							1,1-Dichloroethene	15.0036 ppb v/v
							1,2,4-Trichlorobenzene	15.0036 ppb v/v
							1,2,4-Trimethylbenzene	15.0036 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	15.0036 ppb v/v
							1,2-Dichlorobenzene	15.0036 ppb v/v
							1,2-Dichloroethane	15.0036 ppb v/v
							1,2-Dichloroethene, cis-	15.0036 ppb v/v
							1,2-Dichloroethene, trans-	15.0036 ppb v/v
							1,2-Dichloropropane	15.0036 ppb v/v
							1,3,5-Trimethylbenzene	15.0036 ppb v/v
							1,3-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dichlorobenzene	15.0036 ppb v/v
							1,4-Dioxane	15.0036 ppb v/v
							2-Butanone (MEK)	15.0036 ppb v/v
							2-Chlorotoluene	15.0036 ppb v/v
							2-Methyl-2-propanol	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Chloro-1-propene	15.0036 ppb v/v
							4-Ethyltoluene	15.0036 ppb v/v
							4-Methyl-2-pentanone (MIBK)	15.0036 ppb v/v
							Acetone	15.0036 ppb v/v
							Benzene	15.0036 ppb v/v
							Bromoform	15.0036 ppb v/v
							Bromomethane	15.0036 ppb v/v
							Butadiene	15.0036 ppb v/v
							Carbon disulfide	15.0036 ppb v/v
							Carbon tetrachloride	15.0036 ppb v/v
							Chlorobenzene	15.0036 ppb v/v
							Chlorodibromomethane	15.0036 ppb v/v
							Chloroethane	15.0036 ppb v/v
							Chloroform	15.0036 ppb v/v
							Chloromethane	15.0036 ppb v/v
							cis-1,3-Dichloropropene	15.0036 ppb v/v
							Cyclohexane	15.0036 ppb v/v
							Dichlorobromomethane	15.0036 ppb v/v
							Dichlorodifluoromethane	15.0036 ppb v/v
							Ethylbenzene	15.0036 ppb v/v
							Ethylene Dibromide	15.0036 ppb v/v
							Hexachlorobutadiene	15.0036 ppb v/v
							Hexane	15.0036 ppb v/v
							Isooctane	15.0036 ppb v/v
							Isopropyl alcohol	15.0036 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	30.0071 ppb v/v
							Methyl methacrylate	15.0036 ppb v/v
							Methyl tert-butyl ether	15.0036 ppb v/v
							Methylene Chloride	15.0036 ppb v/v
							n-Heptane	15.0036 ppb v/v
							o-Xylene	15.0036 ppb v/v
							Styrene	15.0036 ppb v/v
							Tetrachloroethene	15.0036 ppb v/v
							Tetrahydrofuran	15.0036 ppb v/v
							Toluene	15.0036 ppb v/v
							trans-1,3-Dichloropropene	15.0036 ppb v/v
							Trichloroethene	15.0036 ppb v/v
							Trichlorofluoromethane	15.0036 ppb v/v
							Vinyl bromide	15.0036 ppb v/v
							Vinyl chloride	15.0036 ppb v/v
.ATTO15CALSTKi_00050	03/04/14	12/04/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00014	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15CALs_00014	12/12/14		Spectra Gases, Lot cc-250179			(Purchased Reagent)	1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL6w_00081	03/04/14	12/09/13	DI WATER, Lot 3212	15.463 L	ATTO15CALSTKi_00050	1546 mL	1,1,1-Trichloroethane	19.9961 ppb v/v
							1,1,2,2-Tetrachloroethane	19.9961 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	19.9961 ppb v/v
							1,1,2-Trichloroethane	19.9961 ppb v/v
							1,1-Dichloroethane	19.9961 ppb v/v
							1,1-Dichloroethene	19.9961 ppb v/v
							1,2,4-Trichlorobenzene	19.9961 ppb v/v
							1,2,4-Trimethylbenzene	19.9961 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	19.9961 ppb v/v
							1,2-Dichlorobenzene	19.9961 ppb v/v
							1,2-Dichloroethane	19.9961 ppb v/v
							1,2-Dichloroethene, cis-	19.9961 ppb v/v
							1,2-Dichloroethene, trans-	19.9961 ppb v/v
							1,2-Dichloropropane	19.9961 ppb v/v
							1,3,5-Trimethylbenzene	19.9961 ppb v/v
							1,3-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dichlorobenzene	19.9961 ppb v/v
							1,4-Dioxane	19.9961 ppb v/v
							2-Butanone (MEK)	19.9961 ppb v/v
							2-Chlorotoluene	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methyl-2-propanol	19.9961 ppb v/v
							3-Chloro-1-propene	19.9961 ppb v/v
							4-Ethyltoluene	19.9961 ppb v/v
							4-Methyl-2-pentanone (MIBK)	19.9961 ppb v/v
							Acetone	19.9961 ppb v/v
							Benzene	19.9961 ppb v/v
							Bromoform	19.9961 ppb v/v
							Bromomethane	19.9961 ppb v/v
							Butadiene	19.9961 ppb v/v
							Carbon disulfide	19.9961 ppb v/v
							Carbon tetrachloride	19.9961 ppb v/v
							Chlorobenzene	19.9961 ppb v/v
							Chlorodibromomethane	19.9961 ppb v/v
							Chloroethane	19.9961 ppb v/v
							Chloroform	19.9961 ppb v/v
							Chloromethane	19.9961 ppb v/v
							cis-1,3-Dichloropropene	19.9961 ppb v/v
							Cyclohexane	19.9961 ppb v/v
							Dichlorobromomethane	19.9961 ppb v/v
							Dichlorodifluoromethane	19.9961 ppb v/v
							Ethylbenzene	19.9961 ppb v/v
							Ethylene Dibromide	19.9961 ppb v/v
							Hexachlorobutadiene	19.9961 ppb v/v
							Hexane	19.9961 ppb v/v
							Isooctane	19.9961 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	19.9961 ppb v/v
							m-Xylene & p-Xylene	39.9922 ppb v/v
							Methyl methacrylate	19.9961 ppb v/v
							Methyl tert-butyl ether	19.9961 ppb v/v
							Methylene Chloride	19.9961 ppb v/v
							n-Heptane	19.9961 ppb v/v
							o-Xylene	19.9961 ppb v/v
							Styrene	19.9961 ppb v/v
							Tetrachloroethene	19.9961 ppb v/v
							Tetrahydrofuran	19.9961 ppb v/v
							Toluene	19.9961 ppb v/v
							trans-1,3-Dichloropropene	19.9961 ppb v/v
							Trichloroethene	19.9961 ppb v/v
							Trichlorofluoromethane	19.9961 ppb v/v
							Vinyl bromide	19.9961 ppb v/v
							Vinyl chloride	19.9961 ppb v/v
.ATTO15CALSTKi_00050	03/04/14	12/04/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00014	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
Vinyl bromide	200 ppb v/v							
Vinyl chloride	200 ppb v/v							
..ATTO15CALs_00014	12/12/14		Spectra Gases, Lot cc-250179		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15CAL7w_00043	03/04/14	12/09/13	DI WATER, Lot 3197	15.463 L	ATTO15CALSTKi_00050	3092 mL	1,1,1-Trichloroethane	39.9922 ppb v/v
							1,1,2,2-Tetrachloroethane	39.9922 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	39.9922 ppb v/v
							1,1,2-Trichloroethane	39.9922 ppb v/v
							1,1-Dichloroethane	39.9922 ppb v/v
							1,1-Dichloroethene	39.9922 ppb v/v
							1,2,4-Trichlorobenzene	39.9922 ppb v/v
							1,2,4-Trimethylbenzene	39.9922 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	39.9922 ppb v/v
							1,2-Dichlorobenzene	39.9922 ppb v/v
							1,2-Dichloroethane	39.9922 ppb v/v
							1,2-Dichloroethene, cis-	39.9922 ppb v/v
							1,2-Dichloroethene, trans-	39.9922 ppb v/v
							1,2-Dichloropropane	39.9922 ppb v/v
							1,3,5-Trimethylbenzene	39.9922 ppb v/v
							1,3-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dichlorobenzene	39.9922 ppb v/v
							1,4-Dioxane	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Butanone (MEK)	39.9922 ppb v/v
							2-Chlorotoluene	39.9922 ppb v/v
							2-Methyl-2-propanol	39.9922 ppb v/v
							3-Chloro-1-propene	39.9922 ppb v/v
							4-Ethyltoluene	39.9922 ppb v/v
							4-Methyl-2-pentanone (MIBK)	39.9922 ppb v/v
							Acetone	39.9922 ppb v/v
							Benzene	39.9922 ppb v/v
							Bromoform	39.9922 ppb v/v
							Bromomethane	39.9922 ppb v/v
							Butadiene	39.9922 ppb v/v
							Carbon disulfide	39.9922 ppb v/v
							Carbon tetrachloride	39.9922 ppb v/v
							Chlorobenzene	39.9922 ppb v/v
							Chlorodibromomethane	39.9922 ppb v/v
							Chloroethane	39.9922 ppb v/v
							Chloroform	39.9922 ppb v/v
							Chloromethane	39.9922 ppb v/v
							cis-1,3-Dichloropropene	39.9922 ppb v/v
							Cyclohexane	39.9922 ppb v/v
							Dichlorobromomethane	39.9922 ppb v/v
							Dichlorodifluoromethane	39.9922 ppb v/v
							Ethylbenzene	39.9922 ppb v/v
							Ethylene Dibromide	39.9922 ppb v/v
							Hexachlorobutadiene	39.9922 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	39.9922 ppb v/v
							Isooctane	39.9922 ppb v/v
							Isopropyl alcohol	39.9922 ppb v/v
							m-Xylene & p-Xylene	79.9845 ppb v/v
							Methyl methacrylate	39.9922 ppb v/v
							Methyl tert-butyl ether	39.9922 ppb v/v
							Methylene Chloride	39.9922 ppb v/v
							n-Heptane	39.9922 ppb v/v
							o-Xylene	39.9922 ppb v/v
							Styrene	39.9922 ppb v/v
							Tetrachloroethene	39.9922 ppb v/v
							Tetrahydrofuran	39.9922 ppb v/v
							Toluene	39.9922 ppb v/v
							trans-1,3-Dichloropropene	39.9922 ppb v/v
							Trichloroethene	39.9922 ppb v/v
							Trichlorofluoromethane	39.9922 ppb v/v
							Vinyl bromide	39.9922 ppb v/v
							Vinyl chloride	39.9922 ppb v/v
.ATTO15CALSTKi_00050	03/04/14	12/04/13	DI WATER, Lot 7952	37.5 L	ATTO15CALs_00014	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	200 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,4-Trichlorobenzene	200 ppb v/v
							1,2,4-Trimethylbenzene	200 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethene, trans-	200 ppb v/v
							1,2-Dichloropropane	200 ppb v/v
							1,3,5-Trimethylbenzene	200 ppb v/v
							1,3-Dichlorobenzene	200 ppb v/v
							1,4-Dichlorobenzene	200 ppb v/v
							1,4-Dioxane	200 ppb v/v
							2-Butanone (MEK)	200 ppb v/v
							2-Chlorotoluene	200 ppb v/v
							2-Methyl-2-propanol	200 ppb v/v
							3-Chloro-1-propene	200 ppb v/v
							4-Ethyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	200 ppb v/v
							Acetone	200 ppb v/v
							Benzene	200 ppb v/v
							Bromoform	200 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Chlorobenzene	200 ppb v/v
							Chlorodibromomethane	200 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	200 ppb v/v
							Dichlorobromomethane	200 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Ethylbenzene	200 ppb v/v
							Ethylene Dibromide	200 ppb v/v
							Hexachlorobutadiene	200 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	200 ppb v/v
							m-Xylene & p-Xylene	400 ppb v/v
							Methyl methacrylate	200 ppb v/v
							Methyl tert-butyl ether	200 ppb v/v
							Methylene Chloride	200 ppb v/v
							n-Heptane	200 ppb v/v
							o-Xylene	200 ppb v/v
							Styrene	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	200 ppb v/v
							Toluene	200 ppb v/v
							trans-1,3-Dichloropropene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							Vinyl bromide	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..ATTO15CALs_00014	12/12/14		Spectra Gases, Lot cc-250179			(Purchased Reagent)	Vinyl chloride	200 ppb v/v
							1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	1 ppm v/v
							1,1,2-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,4-Trichlorobenzene	1 ppm v/v
							1,2,4-Trimethylbenzene	1 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1 ppm v/v
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							1,2-Dichloropropane	1 ppm v/v
							1,3,5-Trimethylbenzene	1 ppm v/v
							1,3-Dichlorobenzene	1 ppm v/v
							1,4-Dichlorobenzene	1 ppm v/v
							1,4-Dioxane	1 ppm v/v
							2-Butanone (MEK)	1 ppm v/v
							2-Chlorotoluene	1 ppm v/v
							2-Methyl-2-propanol	1 ppm v/v
							3-Chloro-1-propene	1 ppm v/v
							4-Ethyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1 ppm v/v
							Acetone	1 ppm v/v
							Benzene	1 ppm v/v
							Bromoform	1 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Chlorobenzene	1 ppm v/v
							Chlorodibromomethane	1 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1 ppm v/v
							Dichlorobromomethane	1 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Ethylbenzene	1 ppm v/v
							Ethylene Dibromide	1 ppm v/v
							Hexachlorobutadiene	1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-20520-1

SDG No.: 200-20520

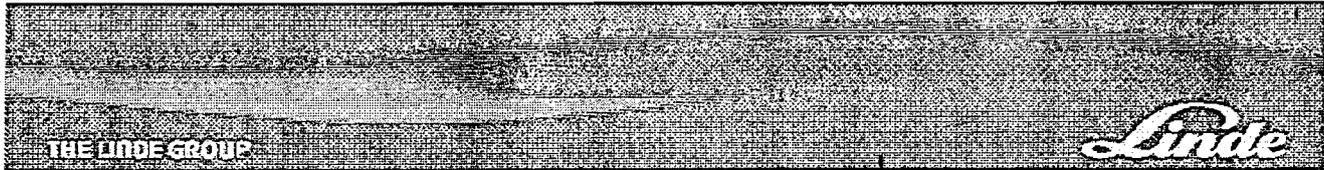
Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropyl alcohol	1 ppm v/v
							m-Xylene & p-Xylene	2 ppm v/v
							Methyl methacrylate	1 ppm v/v
							Methyl tert-butyl ether	1 ppm v/v
							Methylene Chloride	1 ppm v/v
							n-Heptane	1 ppm v/v
							o-Xylene	1 ppm v/v
							Styrene	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1 ppm v/v
							Toluene	1 ppm v/v
							trans-1,3-Dichloropropene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							Vinyl bromide	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15LCSW_00340	02/12/14	11/20/13	DI WATER, Lot 3332	15.463 L	ATTO15LCSSTKi_00045	773 mL	1,1,1-Trichloroethane	9.99806 ppb v/v
							1,1-Dichloroethane	9.99806 ppb v/v
							1,1-Dichloroethene	9.99806 ppb v/v
							1,2-Dichloroethane	9.99806 ppb v/v
							1,2-Dichloroethene, cis-	9.99806 ppb v/v
							1,2-Dichloroethene, trans-	9.99806 ppb v/v
							Carbon tetrachloride	9.99806 ppb v/v
							Tetrachloroethene	9.99806 ppb v/v
							Trichloroethene	9.99806 ppb v/v
							Vinyl chloride	9.99806 ppb v/v
.ATTO15LCSSTKi_00045	02/12/14	11/12/13	DI WATER, Lot 7951	37.5 L	ATTO15LCSS_00014	7500 mL	1,1,1-Trichloroethane	200 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2-Dichloroethane	200 ppb v/v
							1,2-Dichloroethene, cis-	200 ppb v/v
							1,2-Dichloroethene, trans-	200 ppb v/v
							Carbon tetrachloride	200 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Trichloroethene	200 ppb v/v
							Vinyl chloride	200 ppb v/v
..ATTO15LCSS_00014	12/12/14		Spectra Gases, Lot CC-230119		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20520-1

SDG No.: 200-20520

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	1 ppm v/v
							1,2-Dichloroethene, cis-	1 ppm v/v
							1,2-Dichloroethene, trans-	1 ppm v/v
							Carbon tetrachloride	1 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Vinyl chloride	1 ppm v/v
ATTO15WISs_00002	11/23/15		Spectra Gases, Lot CC-172855			(Purchased Reagent)	1,4-Difluorobenzene	100 ppb v/v
							Chlorobenzene-d5	100 ppb v/v
							Chlorobromomethane	100 ppb v/v



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PAGE: 1 of 4



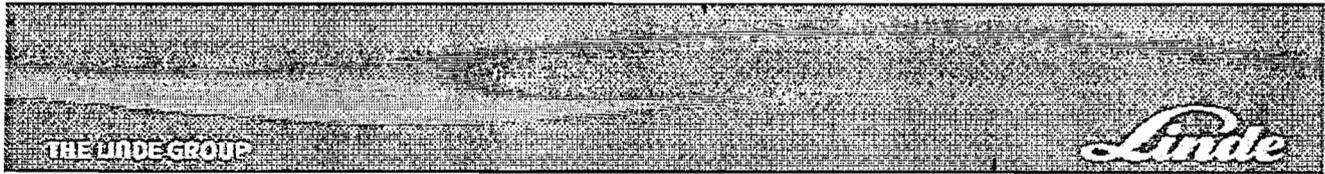
439415

ID: ATTO15CALs_00009
Exp:12/05/13 Pripd:WRD Opn:12/05/12
TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#:	109735129	Cylinder Size:	2A (8" X 47.5")
Production#:	2851880	Cylinder # :	CC-250179
Certification Date:	Dec-05-2012	Cylinder Pressure:	1100 psig
P.O.# :	Verbal-Recert	Cylinder Valve:	CGA 350 / Steel
Blend Type:	CERTIFIED	Cylinder Volume:	29.5 Liter
Material#:	14004443	Cylinder Material:	Aluminum
Traceability:	NIST by weight	Gas Volume:	2200 Liter
Expiration Date:	Dec-05-2013	Blend Tolerance:	10% Relative
Do NOT use under:	150 psig	Analytical Accuracy:	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Propylene	115-07-1	1.00 ppm	1.04 ppm
Chlorodifluoromethane	75-45-6	1.00 ppm	1.02 ppm
Freon-12	75-71-8	1.00 ppm	0.97 ppm
Chloromethane	74-87-3	1.00 ppm	0.98 ppm
Freon-114	76-14-2	1.00 ppm	0.98 ppm
Vinyl Chloride	75-01-4	1.00 ppm	0.98 ppm
1,3-Butadiene	106-99-0	1.00 ppm	1.01 ppm
Methanol (No Stability Guarantee)	67-56-1	1.00 ppm	0.94 ppm
n-Butane	106-97-8	1.00 ppm	1.03 ppm
Bromomethane	74-83-9	1.00 ppm	1.00 ppm
Chloroethane	75-00-3	1.00 ppm	0.98 ppm
Vinyl Bromide	593-60-2	1.00 ppm	1.06 ppm
Acetonitrile (Analytical Accuracy +/-10%)		1.00 ppm	1.02 ppm
Acrolein (Analytical Accuracy +/-10%)		1.00 ppm	1.10 ppm
Isopentane	78-78-4	1.00 ppm	1.06 ppm
Acetone	67-64-1	1.00 ppm	1.06 ppm
Freon-11	75-69-4	1.00 ppm	0.95 ppm
Isopropyl Alcohol	67-63-0	1.00 ppm	1.01 ppm
Acrylonitrile	107-13-1	1.00 ppm	1.06 ppm
n-Pentane	109-66-0	1.00 ppm	1.06 ppm
Ethyl Ether	60-29-7	1.00 ppm	1.09 ppm
1,1-Dichloroethene	75-35-4	1.00 ppm	0.98 ppm
Carbon Disulfide (Analytical Accuracy +/- 10%)	75-15-0	1.00 ppm	1.03 ppm
Methylene Chloride	75-09-2	1.00 ppm	1.03 ppm
Tert-Butanol		1.00 ppm	1.03 ppm
3-Chloropropene	107-05-1	1.00 ppm	1.03 ppm
Freon-113	76-13-1	1.00 ppm	0.97 ppm
Trans-1,2-Dichloroethene	156-60-5	1.00 ppm	1.04 ppm
1,1-Dichloroethane	75-34-3	1.00 ppm	1.02 ppm
Methyl Tert Butyl Ether	1634-04-4	1.00 ppm	1.04 ppm



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439415

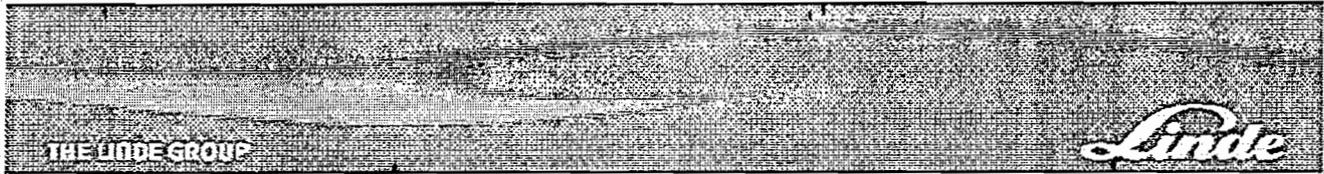
ID: ATTO15CALs_00009
Exp: 12/05/13 Ppd: WRD Opr: 12/05/12
TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#: 109735129
Production#: 2851880
Certification Date: Dec-05-2012
P.O.# : Verbal-Recert
Blend Type: CERTIFIED
Material#: 14004443
Traceability: NIST by weight
Expiration Date: Dec-05-2013
Do NOT use under: 150 psig

Cylinder Size: 2A (8" X 47.5")
Cylinder # : CC-250179
Cylinder Pressure: 1100 psig
Cylinder Valve: CGA 350 / Steel
Cylinder Volume: 29.5 Liter
Cylinder Material: Aluminum
Gas Volume: 2200 Liter
Blend Tolerance: 10% Relative
Analytical Accuracy: 5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Vinyl Acetate	108-05-4	1.00 ppm	1.03 ppm
Methyl Ethyl Ketone	78-93-3	1.00 ppm	1.09 ppm
Cis-1,2-Dichloroethene	156-59-2	1.00 ppm	1.02 ppm
Hexane	110-54-3	1.00 ppm	1.09 ppm
Chloroform	67-66-3	1.00 ppm	1.04 ppm
Ethyl Acetate	141-78-6	1.00 ppm	1.04 ppm
Tetrahydrofuran	109-99-9	1.00 ppm	1.08 ppm
1,2-Dichloroethane	107-06-2	1.00 ppm	1.04 ppm
1,1,1-Trichloroethane	71-55-6	1.00 ppm	1.02 ppm
Benzene	71-43-2	1.00 ppm	1.04 ppm
1-Butanol	71-36-3	1.00 ppm	1.07 ppm
Carbon Tetrachloride	56-23-5	1.00 ppm	1.05 ppm
Cyclohexane	110-82-7	1.00 ppm	1.06 ppm
Dibromomethane	74-95-3	1.00 ppm	1.05 ppm
1,2-Dichloropropane	78-87-5	1.00 ppm	1.05 ppm
Trichloroethylene	79-01-6	1.00 ppm	1.05 ppm
Bromodichloromethane	75-27-4	1.00 ppm	1.05 ppm
1,4-Dioxane	123-91-1	1.00 ppm	1.05 ppm
2,2,4-Trimethylpentane	540-84-1	1.00 ppm	1.03 ppm
Methyl Methacrylate	80-62-6	1.00 ppm	1.06 ppm
Heptane	142-82-5	1.00 ppm	1.06 ppm
Cis-1,3-Dichloropropene	10061-01-5	1.00 ppm	1.03 ppm
Methyl Isobutyl Ketone	108-10-1	1.00 ppm	1.06 ppm
Trans-1,3-Dichloropropene	10061-02-6	1.00 ppm	1.12 ppm
1,1,2-Trichloroethane	79-00-5	1.00 ppm	1.08 ppm
Toluene	108-88-3	1.00 ppm	1.07 ppm
Methyl Butyl Ketone	591-78-6	1.00 ppm	1.10 ppm
Dibromochloromethane	124-48-1	1.00 ppm	1.09 ppm
1,2-Dibromoethane	106-93-4	1.00 ppm	1.07 ppm
n-Octane	111-65-9	1.00 ppm	1.05 ppm



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PAGE: 3 of 4



439415

ID: ATTO15CALs_00009
Exp: 12/05/13 Prpd: WRD Opm: 12/05/12
TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#:	109735129	Cylinder Size:	2A (8" X 47.5")
Production#:	2851880	Cylinder # :	CC-250179
Certification Date:	Dec-05-2012	Cylinder Pressure:	1100 psig
P.O.# :	Verbal-Recert	Cylinder Valve:	CGA 350 / Steel
Blend Type:	CERTIFIED	Cylinder Volume:	29.5 Liter
Material#:	14004443	Cylinder Material:	Aluminum
Traceability:	NIST by weight	Gas Volume:	2200 Liter
Expiration Date:	Dec-05-2013	Blend Tolerance:	10% Relative
Do NOT use under:	150 psig	Analytical Accuracy:	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Tetrachloroethylene	127-18-4	1.00 ppm	1.00 ppm
Chlorobenzene	108-90-7	1.00 ppm	1.09 ppm
Ethylbenzene	100-41-4	1.00 ppm	1.06 ppm
p-xylene	106-42-3	1.00 ppm	1.05 ppm
m-xylene	108-38-3	1.00 ppm	1.05 ppm
Bromoform	75-25-2	1.00 ppm	1.05 ppm
Styrene	100-42-5	1.00 ppm	1.08 ppm
o-xylene	95-47-6	1.00 ppm	1.08 ppm
1,1,2,2-Tetrachloroethane	79-34-5	1.00 ppm	1.08 ppm
1,2,3-Trichloropropane	96-18-4	1.00 ppm	1.05 ppm
Nonane	111-84-2	1.00 ppm	1.03 ppm
Cumene	98-82-8	1.00 ppm	1.05 ppm
2-Chlorotoluene	95-49-8	1.00 ppm	1.08 ppm
n-Propylbenzene	103-65-1	1.00 ppm	1.00 ppm
4-Ethyltoluene	622-96-8	1.00 ppm	1.07 ppm
1,3,5-Trimethylbenzene	108-67-8	1.00 ppm	1.07 ppm
alpha-Methyl Styrene (no stability guarantee)	98-83-9	1.00 ppm	1.03 ppm
Tert-Butyl Benzene	98-06-6	1.00 ppm	1.05 ppm
1,2,4-Trimethylbenzene	95-63-6	1.00 ppm	1.05 ppm
1,3-Dichlorobenzene	541-73-1	1.00 ppm	1.09 ppm
Benzyl Chloride (Analytical Accuracy +/- 10%)	100-44-7	1.00 ppm	1.09 ppm
n-Decane	124-18-5	1.00 ppm	1.05 ppm
1,4-Dichlorobenzene	106-46-7	1.00 ppm	1.05 ppm
Sec-Butyl Benzene	135-98-8	1.00 ppm	1.02 ppm
4-Isopropyltoluene	99-87-6	1.00 ppm	1.02 ppm
1,2-Dichlorobenzene	95-50-1	1.00 ppm	1.10 ppm
n-Butyl Benzene	104-51-8	1.00 ppm	1.04 ppm
n-Undecane	1120-21-4	1.00 ppm	0.97 ppm



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439415

ID: ATTO15CALs_00009
Exp:12/05/13 Prpd:WRD Opr:12/05/12
TO15 Calibration Source T

CERTIFICATE OF ANALYSIS

Sales#:	109735129	Cylinder Size:	2A (8" X 47.5")
Production#:	2851880	Cylinder # :	CC-250179
Certification Date:	Dec-05-2012	Cylinder Pressure:	1100 psig
P.O.# :	Verbal-Recert	Cylinder Valve:	CGA 350 / Steel
Blend Type:	CERTIFIED	Cylinder Volume:	29.5 Liter
Material#:	14004443	Cylinder Material:	Aluminum
Traceability:	NIST by weight	Gas Volume:	2200 Liter
Expiration Date:	Dec-05-2013	Blend Tolerance:	10% Relative
Do NOT use under:	150 psig	Analytical Accuracy:	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
1,2,4-Trichlorobenzene	120-82-1	1.00 ppm	1.08 ppm
Naphthalene (Analytical Accuracy +/- 10%)	91-20-3	1.00 ppm	1.03 ppm
n-Dodecane	112-40-3	1.00 ppm	0.95 ppm
1,2,3-Trichlorobenzene	87-61-6	1.00 ppm	1.05 ppm
Hexachloro-1,3-Butadiene	87-68-3	1.00 ppm	1.09 ppm
Nitrogen	7727-37-9	Balance	Balance

ANALYST: *Lou Lorenzetti*
Lou Lorenzetti

DATE: Dec-05-2012



Spectra Gases, Inc.

3434 Route 22 West, Branchburg, New Jersey 08876 USA

ISO 9001:2000

Recut AT 02-010-05 11/10/08 -> 11/10/09

-CS

Corporate Cal Mix.

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208 South Park Drive, Suite 1
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PAGE: 1 of 4
Exp 1/6/10
MTP 3/2/09

AT 0200614 Lot # 2426

CERTIFICATE OF ANALYSIS

1/9/06 DWW

SGI ORDER #: 0082390
ITEM#: 1
CERTIFICATION DATE: 12/28/2005
P.O.#: 2129987
BLEND TYPE: CERTIFIED
CYLINDER #: CC-230119
CYLINDER PRES: 2000 psig
CYLINDER VALVE: CGA 350
PRODUCT EXPIRATION DATE: 12/28/2006
Recut 1/12/07



439437
ID: ATTO15LCSs_00011
Exp: 12/05/13 Prip: WRD Opn: 12/14/10
TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Propylene	1.00 ppm	1.05 ppm
Freon-22	1.00 ppm	1.04 ppm
Freon-12	1.00 ppm	0.99 ppm
Chloromethane	1.00 ppm	0.99 ppm
Freon-114	1.00 ppm	0.96 ppm
Vinyl Chloride	1.00 ppm	0.99 ppm
1,3-Butadiene	1.00 ppm	1.07 ppm
Methanol (no stability guarantee)	1.00 ppm	1.08 ppm
n-Butane	1.00 ppm	1.03 ppm
Bromomethane	1.00 ppm	0.98 ppm
Chloroethane	1.00 ppm	0.97 ppm
Vinyl Bromide	1.00 ppm	1.05 ppm
Carbon Disulfide (no stability guarantee)	1.00 ppm	1.05 ppm
Acetonitrile	1.00 ppm	1.10 ppm
Acrolien (no stability guarantee)	1.00 ppm	1.06 ppm
Isopentane	1.00 ppm	1.09 ppm
Acetone	1.00 ppm	1.02 ppm
Freon-11	1.00 ppm	1.02 ppm
Isopropyl Alcohol	1.00 ppm	1.05 ppm
Acrylonitrile	1.00 ppm	1.08 ppm
Pentane	1.00 ppm	1.07 ppm
Ethyl Ether	1.00 ppm	1.06 ppm
1,1-Dichloroethene	1.00 ppm	1.09 ppm
Methylene Chloride	1.00 ppm	1.05 ppm
Tert-Butyl Alcohol	1.00 ppm	1.10 ppm
3-Chloropropene	1.00 ppm	1.10 ppm
Freon-113	1.00 ppm	1.07 ppm
Trans-1,2-Dichloroethene	1.00 ppm	1.03 ppm
1,1-Dichloroethane	1.00 ppm	1.04 ppm
Methyl Tert Butyl Ether	1.00 ppm	1.07 ppm



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ISO 9001:2000

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SHIPPED TO: Severn Trent Labs - Burlington
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Colchester, VT 05446

PAGE: 2 of 4

**CERTIFICATE
OF
ANALYSIS**

SGI ORDER # :	0082390	CYLINDER # :	CC-230119
ITEM# :	1	CYLINDER PRES:	2000 psig
CERTIFICATION DATE:	12/28/2005	CYLINDER VALVE:	CGA 350
P.O.# :	2129987	PRODUCT EXPIRATION DATE:	12/28/2006
BLEND TYPE:	CERTIFIED		



439437

ID: ATTO15LCSs_00011
Exp: 12/05/13 P: 10 WRD Opn: 12/14/10
TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Vinyl Acetate	1.00 ppm	1.06 ppm
Methyl Ethyl Ketone	1.00 ppm	1.10 ppm
Cis-1,2-Dichloroethene	1.00 ppm	1.05 ppm
Hexane	1.00 ppm	1.10 ppm
Ethyl Acetate	1.00 ppm	1.07 ppm
Chloroform	1.00 ppm	1.07 ppm
Tetrahydrofuran	1.00 ppm	1.09 ppm
1,2-Dichloroethane	1.00 ppm	1.04 ppm
1,1,1-Trichloroethane	1.00 ppm	1.03 ppm
Benzene	1.00 ppm	1.03 ppm
1-Butanol	1.00 ppm	1.10 ppm
Carbon Tetrachloride	1.00 ppm	1.05 ppm
Cyclohexane	1.00 ppm	1.08 ppm
Dibromomethane	1.00 ppm	1.01 ppm
1,2-Dichloropropane	1.00 ppm	1.03 ppm
Trichloroethylene	1.00 ppm	1.04 ppm
Bromodichloromethane	1.00 ppm	1.04 ppm
1,4-Dioxane	1.00 ppm	1.04 ppm
2,2,4-Trimethylpentane	1.00 ppm	1.04 ppm
Methyl Methacrylate	1.00 ppm	1.06 ppm
Heptane	1.00 ppm	1.07 ppm
Cis-1,3-Dichloropropene	1.00 ppm	1.04 ppm
Methyl Isobutyl Ketone	1.00 ppm	1.07 ppm
Trans-1,3-Dichloropropene	1.00 ppm	1.10 ppm
1,1,2-Trichloroethane	1.00 ppm	1.01 ppm
Toluene	1.00 ppm	1.04 ppm
Methyl Butyl Ketone	1.00 ppm	1.08 ppm
Dibromochloromethane	1.00 ppm	1.10 ppm
1,2-Dibromoethane	1.00 ppm	0.99 ppm
n-Octane	1.00 ppm	1.04 ppm



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 ISO 9001:2000

SHIPPED FROM: 80 INDUSTRIAL DRIVE ALPHA, NJ. 08865

SHIPPED TO: Severn Trent Labs - Burlington
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 Colchester, VT 05446

PAGE: 3 of 4

**CERTIFICATE
 OF
 ANALYSIS**

SGI ORDER # :	0082390	CYLINDER # :	CC-230119
ITEM# :	1	CYLINDER PRES:	2000 psig
CERTIFICATION DATE:	12/28/2005	CYLINDER VALVE:	CGA 350
P.O.# :	2129987	PRODUCT EXPIRATION DATE:	12/28/2006
BLEND TYPE:	CERTIFIED		



439437
 ID: ATTO15LCSs_00011
 Exp:12/05/13 Prpd:WRD Opn:12/14/10
 TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Tetrachloroethylene	1.00 ppm	1.02 ppm
Chlorobenzene	1.00 ppm	1.03 ppm
Ethylbenzene	1.00 ppm	1.04 ppm
p-Xylene	1.00 ppm	1.03 ppm
m-Xylene	1.00 ppm	1.03 ppm
Bromoform	1.00 ppm	1.03 ppm
Styrene	1.00 ppm	1.03 ppm
O-Xylene	1.00 ppm	1.02 ppm
1,1,2,2-Tetrachloroethane	1.00 ppm	1.02 ppm
1,2,3-Trichloropropane	1.00 ppm	1.04 ppm
Nonane	1.00 ppm	1.04 ppm
Cumene	1.00 ppm	1.07 ppm
2-Chlorotoluene	1.00 ppm	1.09 ppm
n-Propylbenzene	1.00 ppm	1.05 ppm
4-Ethyltoluene	1.00 ppm	1.10 ppm
1,3,5-Trimethylbenzene	1.00 ppm	1.04 ppm
a-Methylstyrene (no stability guarantee)	1.00 ppm	1.06 ppm
Tert-Butylbenzene	1.00 ppm	1.03 ppm
1,2,4-Trimethylbenzene	1.00 ppm	1.04 ppm
1,3-Dichlorobenzene	1.00 ppm	1.07 ppm
Benzyl Chloride (no stability guarantee)	1.00 ppm	1.07 ppm
n-Decane	1.00 ppm	1.03 ppm
1,4-Dichlorobenzene	1.00 ppm	1.01 ppm
Sec-Butylbenzene	1.00 ppm	1.03 ppm
4-Isopropyltoluene	1.00 ppm	1.04 ppm
1,2-Dichlorobenzene	1.00 ppm	1.01 ppm
n-Butylbenzene	1.00 ppm	1.03 ppm
n-Undecane	1.00 ppm	1.06 ppm
1,2,4-Trichlorobenzene	1.00 ppm	1.09 ppm
Napthalene (no stability guarantee)	1.00 ppm	1.10 ppm

SHIPPED FROM: 80 INDUSTRIAL DRIVE ALPHA, NJ. 08865

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208 South Park Drive, Suite 1
Colchester, VT 05446

PAGE: 4 of 4

**CERTIFICATE
OF
ANALYSIS**

SGI ORDER # :	0082390	CYLINDER # :	CC-230119
ITEM# :	1	CYLINDER PRES:	2000 psig
CERTIFICATION DATE:	12/28/2005	CYLINDER VALVE:	CGA 350
P.O.# :	2129987	PRODUCT EXPIRATION DATE:	12/28/2006
BLEND TYPE:	CERTIFIED		



439437
ID: ATTO15LCSs_00011
Exp:12/05/13 PpPd:WRD Opn:12/14/10
TO15 Second Source Tank

ANALYTICAL ACCURACY: +/- 5%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
n-Dodecane	1.00 ppm	1.08 ppm
1,2,3-Trichlorobenzene	1.00 ppm	1.03 ppm
Hexachloro-1,3-Butadiene	1.00 ppm	1.06 ppm
Nitrogen	Balance	Balance

ANALYST: 
April Chamberlain

DATE: 12/29/2005



3434 Route 22 West, Branchburg, New Jersey 08876 USA

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SHIPPED TO: Severn Trent Labs
208 South Park Drive
Suite 1
Colchester, VT 05446

AT 02 008 B.
Recat AT-02-010-13 exp 12/10/08

CERTIFICATE
OF
ANALYSIS

Instrument 1

SGI ORDER #: 101783
ITEM#: 1
CERTIFICATION DATE: 12/27/2006
P.O.#: 2172385
BLEND TYPE: CERTIFIED

CYLINDER #: CC-250115
CYLINDER PRES: 2000 psig
CYLINDER VALVE: CGA 350
PRODUCT EXPIRATION DATE: 12/27/2007

ANALYTICAL ACCURACY: +/- 10%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Bromochloromethane	100 ppb	103 ppb
1,4-Difluorobenzene	100 ppb	106 ppb
Chlorobenzene-d5	100 ppb	106 ppb
4-Bromofluorobenzene	100 ppb	107 ppb
Nitrogen	Balance	Balance



248052

ID: ATTO15CISs_00005

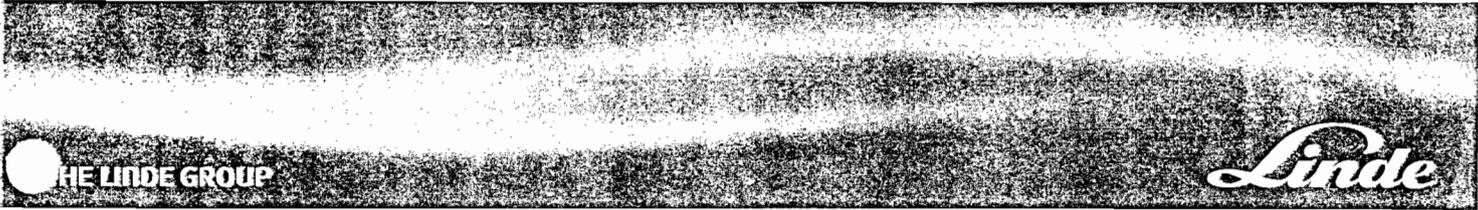
Exp 11/15/15 Prod WFO Ops 12/01/10
Internal Standard for Ins

ANALYST:

April Chamberlain
April Chamberlain

DATE:

12/27/2006



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PAGE: 1 of 1

CERTIFICATE OF ANALYSIS

Sales#: 107763353
Production#: 1160209
Certification Date: 15/11/2010
P.O.# : 2391727
Blend Type: CERTIFIED
Material#: 24088974



Cylinder Size: 2A (8" X 47.5")
Cylinder # : CC-344439
Cylinder Pressure: 2000 psig
Cylinder Valve: CGA 350 / Steel
Cylinder Volume: 29.5 Liter
Cylinder Material: Aluminum
Gas Volume: 4000 Liter
Blend Tolerance: 10% Relative
Analytical Accuracy: 10% Relative

Expiration Date: 15/11/2011
Do NOT use under: 150 psig

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Bromochloromethane		100 ppb	104 ppb
1,4-Difluorobenzene		100 ppb	104 ppb
Chlorobenzene-d5		100 ppb	106 ppb
4-Bromofluorobenzene		100 ppb	104 ppb
Nitrogen		Balance	Balance

SOURCE REFERENCE# 269712

ANALYST: *Lou Lorenzetti*
 Lou Lorenzetti

DATE: 15/11/2010



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G

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AT02-00-13

CERTIFICATE
OF
ANALYSIS

SGI ORDER # :	140016	CYLINDER # :	CC-279057
ITEM# :	1	CYLINDER PRES:	2000 psig
CERTIFICATION DATE:	12/11/2008	CYLINDER VALVE:	CGA 350
P.O.# :	2282386	PRODUCT EXPIRATION DATE:	12/11/2009
BLEND TYPE:	CERTIFIED		

ANALYTICAL ACCURACY: +/-10%

COMPONENT	REQUESTED GAS CONC	ANALYSIS
Bromochloromethane	100 ppb	103 ppb
1,4-Difluorobenzene	100 ppb	106 ppb
Chlorobenzene-d5	100 ppb	107 ppb
4-Bromofluorobenzene	100 ppb	107 ppb
Nitrogen	Balance	Balance


 248058
 ID: ATTO15GIS_00006
 Exp. 11/15/15 Piped WFO Open 1301/10
 Instrument G Internal Sta

SOURCE REFERENCE # 260788

ANALYST: Matthew Booth
Matthew Booth

DATE: 12/11/2008

METHODOLOGY SUMMARY

Laboratory: TestAmerica Laboratories

Project No: NA

Location: South Burlington, Vermont

SDG No: 200-20520

VOA

Volatile Organics - NJDEP-LLTO-15

CASE NARRATIVE

Client: URS Corporation

Project: EISB Pompton Lakes

Report Number: 200-20520-1

The samples in this sample set were analyzed by the EPA Compendium Method TO-15 for specific volatile organic constituents. Unless otherwise noted below, the analytical work followed the requirements outlined in the New Jersey DEP guidelines.

The practice of the laboratory is to analyze one canister from each batch of canisters that have been cleaned for re-use in order to certify the batch. The canisters that were used for this sampling event were from multiple batches. The certifying analyses were free of target analytes down to the concentration levels that are contractually required (nominally 0.2 PPBV). In order to provide for the lower level of detection required for canister certification, the laboratory analyzed a 500 milliliter volume. The laboratory's established practice for the analysis of field samples is based on the analysis of a 200 milliliter sample volume. Documentation of the analytical work supporting canister certification is included in the "Clean Can Certification" section of this submittal. Documentation of canister vacuum as delivered to, and received from, the field is included in the "Clean Can Certification" section of this submittal.

Manual integration was employed in deriving certain of the analytical results. The values that have been derived from manual integration are qualified on the quantitation reports, and extracted ion current profiles are included in the data package.

The following details the column type and trap design that were used in the performance of the analytical work for the sample in this sample set:

Chromatography Column - Restek RTX-624
Length - 60 meters
Inner Diameter - 0.32 millimeters
Film thickness - 1.8 micrometers
Trap Design - Entech Model 7100A (glass bead and Tenax with cryo-focusing)

A summary of the laboratory's current Method Detection Limits (MDLs) has been provided as part of this submittal, immediately following this transmittal letter.

RECEIPT

The samples were received on 01/17/2014; the samples arrived in good condition.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SG-011614-SGP-01. The container label lists an ID of 122313-SGP-01. The COC lists a ID of SG-011614-SGP-01. Logged in per COC.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): AA-011614-SGP-01. The container label lists an ID of AA-122313-SGP-01. The COC lists an ID of AA-011614-SGP-01. Logged in per COC.

VOLATILE ORGANIC COMPOUNDS

Samples SG-011614-SGP-01 and AA-011614-SGP-01 were analyzed for Volatile Organic Compounds in accordance with NJDEP-LLTO-15. The samples were analyzed on 01/22/2014.

No difficulties were encountered during the VOCs analysis.

All quality control parameters were within the acceptance limits.

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20520-1

SDG No.: 200-20520

Instrument ID: CHW.i Analysis Batch Number: 65930

Lab Sample ID: IC 200-65930/4 Client Sample ID: _____

Date Analyzed: 12/12/13 18:12 Lab File ID: wak004.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichlorotetrafluoroethane	4.85	Baseline Event	desjardin sb	12/13/13 07:38
Chloromethane	5.06	Baseline Event	desjardin sb	12/13/13 07:38
Vinyl chloride	5.36	Baseline Event	desjardin sb	12/13/13 07:38
1,3-Butadiene	5.47	Baseline Event	desjardin sb	12/13/13 07:38
Bromomethane	6.33	Baseline Event	desjardin sb	12/13/13 07:38
Chloroethane	6.62	Baseline Event	desjardin sb	12/13/13 07:38
Vinyl bromide	7.10	Baseline Event	desjardin sb	12/13/13 07:38
Trichlorofluoromethane	7.20	Baseline Event	desjardin sb	12/13/13 07:38
1,1,2-Trichloro-1,2,2-trifluoroethane	8.47	Baseline Event	desjardin sb	12/13/13 07:38
1,1-Dichloroethene	8.56	Baseline Event	desjardin sb	12/13/13 07:38
Isopropanol	9.10	Baseline Event	desjardin sb	12/13/13 07:38
Allyl chloride	9.43	Baseline Event	desjardin sb	12/13/13 07:38
Methylene Chloride	9.77	Baseline Event	desjardin sb	12/13/13 07:38
tert-Butyl alcohol	9.95	Baseline Event	desjardin sb	12/13/13 07:38
Methyl tert-butyl ether	10.20	Baseline Event	desjardin sb	12/13/13 07:38
1,2-Dichloroethene, trans-	10.24	Baseline Event	desjardin sb	12/13/13 07:38
n-Hexane	10.67	Baseline Event	desjardin sb	12/13/13 07:38

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20520-1

SDG No.: 200-20520

Instrument ID: CHW.i Analysis Batch Number: 65930

Lab Sample ID: IC 200-65930/4 Client Sample ID: _____

Date Analyzed: 12/12/13 18:12 Lab File ID: wak004.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1-Dichloroethane	11.20	Baseline Event	desjardin sb	12/13/13 07:38
1,2-Dichloroethene, cis-	12.40	Baseline Event	desjardin sb	12/13/13 07:38
Methyl Ethyl Ketone	12.42	Baseline Event	desjardin sb	12/13/13 07:38
Tetrahydrofuran	12.91	Baseline Event	desjardin sb	12/13/13 07:38
Chloroform	12.96	Baseline Event	desjardin sb	12/13/13 07:38
Cyclohexane	13.29	Baseline Event	desjardin sb	12/13/13 07:38
Carbon tetrachloride	13.54	Baseline Event	desjardin sb	12/13/13 07:38
2,2,4-Trimethylpentane	13.94	Baseline Event	desjardin sb	12/13/13 07:38
Benzene	14.00	Baseline Event	desjardin sb	12/13/13 07:38
Trichloroethene	15.22	Baseline Event	desjardin sb	12/13/13 07:38
Methyl methacrylate	15.83	Baseline Event	desjardin sb	12/13/13 07:38
1,4-Dioxane	15.95	Baseline Event	desjardin sb	12/13/13 07:38
Bromodichloromethane	16.24	Baseline Event	desjardin sb	12/13/13 07:38
1,3-Dichloropropene, cis-	17.10	Baseline Event	desjardin sb	12/13/13 07:38
Methyl isobutyl ketone	17.35	Baseline Event	desjardin sb	12/13/13 07:38
1,3-Dichloropropene, trans-	18.21	Baseline Event	desjardin sb	12/13/13 07:38
1,1,2-Trichloroethane	18.58	Baseline Event	desjardin sb	12/13/13 07:38

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20520-1SDG No.: 200-20520Instrument ID: CHW.i Analysis Batch Number: 65930Lab Sample ID: IC 200-65930/4 Client Sample ID: _____Date Analyzed: 12/12/13 18:12 Lab File ID: wak004.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dibromochloromethane	19.32	Baseline Event	desjardin sb	12/13/13 07:38
1,2-Dibromoethane	19.60	Baseline Event	desjardin sb	12/13/13 07:38
Chlorobenzene	20.52	Baseline Event	desjardin sb	12/13/13 07:38
Ethylbenzene	20.63	Analyte misidentified by the data system	desjardin sb	12/13/13 07:38
o-Xylene	21.56	Baseline Event	desjardin sb	12/13/13 07:38
Bromoform	21.97	Baseline Event	desjardin sb	12/13/13 07:38
4-Ethyltoluene	22.93	Analyte misidentified by the data system	desjardin sb	12/13/13 07:38
1,4-Dichlorobenzene	24.23	Baseline Event	desjardin sb	12/13/13 07:38
1,2,4-Trichlorobenzene	27.74	Baseline Event	desjardin sb	12/13/13 07:38
Hexachlorobutadiene	27.94	Baseline Event	desjardin sb	12/13/13 07:38

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20520-1SDG No.: 200-20520Instrument ID: CHW.i Analysis Batch Number: 65930Lab Sample ID: IC 200-65930/5 Client Sample ID: _____Date Analyzed: 12/12/13 19:03 Lab File ID: wak005.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	5.36	Baseline Event	desjardin sb	12/13/13 07:30
Chloroethane	6.61	Baseline Event	desjardin sb	12/13/13 07:30
Trichlorofluoromethane	7.21	Baseline Event	desjardin sb	12/13/13 07:30
1,1,2-Trichloro-1,2,2-trifluoroethane	8.47	Baseline Event	desjardin sb	12/13/13 07:30
1,1-Dichloroethene	8.53	Baseline Event	desjardin sb	12/13/13 07:30
Isopropanol	9.09	Baseline Event	desjardin sb	12/13/13 07:30
tert-Butyl alcohol	9.94	Baseline Event	desjardin sb	12/13/13 07:30
Methyl tert-butyl ether	10.18	Baseline Event	desjardin sb	12/13/13 07:30
1,2-Dichloroethene, trans-	10.25	Baseline Event	desjardin sb	12/13/13 07:30
n-Hexane	10.66	Baseline Event	desjardin sb	12/13/13 07:30
1,1-Dichloroethane	11.22	Baseline Event	desjardin sb	12/13/13 07:30
1,2-Dichloroethene, cis-	12.38	Baseline Event	desjardin sb	12/13/13 07:30
Methyl Ethyl Ketone	12.42	Baseline Event	desjardin sb	12/13/13 07:30
Tetrahydrofuran	12.88	Baseline Event	desjardin sb	12/13/13 07:30
Carbon tetrachloride	13.55	Baseline Event	desjardin sb	12/13/13 07:30
2,2,4-Trimethylpentane	13.95	Baseline Event	desjardin sb	12/13/13 07:30
1,2-Dichloropropane	15.73	Baseline Event	desjardin sb	12/13/13 07:30

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20520-1

SDG No.: 200-20520

Instrument ID: CHW.i Analysis Batch Number: 65930

Lab Sample ID: IC 200-65930/5 Client Sample ID: _____

Date Analyzed: 12/12/13 19:03 Lab File ID: wak005.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromodichloromethane	16.23	Baseline Event	desjardin sb	12/13/13 07:30
1,3-Dichloropropene, cis-	17.11	Baseline Event	desjardin sb	12/13/13 07:30
Chlorobenzene	20.50	Baseline Event	desjardin sb	12/13/13 07:30
o-Xylene	21.55	Baseline Event	desjardin sb	12/13/13 07:30
Hexachlorobutadiene	27.95	Baseline Event	lyonsb	12/18/13 15:09

Lab Sample ID: IC 200-65930/6 Client Sample ID: _____

Date Analyzed: 12/12/13 19:52 Lab File ID: wak006.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dichloropropane	15.75	Baseline Event	lyonsb	12/18/13 15:06
1,2,4-Trichlorobenzene	27.74	Baseline Event	lyonsb	12/18/13 15:06
Hexachlorobutadiene	27.94	Baseline Event	lyonsb	12/18/13 15:06

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20520-1

SDG No.: 200-20520

Instrument ID: CHW.i Analysis Batch Number: 67464

Lab Sample ID: LCS 200-67464/5 Client Sample ID: _____

Date Analyzed: 01/22/14 14:47 Lab File ID: wakv05.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	5.37	Baseline Event	lyonsb	01/22/14 15:36
1,1-Dichloroethene	8.54	Baseline Event	lyonsb	01/22/14 15:36
1,1-Dichloroethane	11.22	Baseline Event	lyonsb	01/22/14 15:36
1,2-Dichloroethene, cis-	12.39	Baseline Event	lyonsb	01/22/14 15:36
1,1,1-Trichloroethane	13.30	Baseline Event	lyonsb	01/22/14 15:36
Carbon tetrachloride	13.55	Baseline Event	lyonsb	01/22/14 15:36
1,2-Dichloroethane	14.16	Baseline Event	lyonsb	01/22/14 15:36
Trichloroethene	15.22	Baseline Event	lyonsb	01/22/14 15:36

Lab Sample ID: CCVC 200-67464/27 Client Sample ID: _____

Date Analyzed: 01/23/14 10:48 Lab File ID: wakv27.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromoform	21.97	Baseline Event	lyonsb	01/23/14 11:45

Project Name: NA
 Field ID Number: SG-011614-SGP-01
 Laboratory ID Number: 200-20520-1

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Sampling Date: 01/16/2014 12:51
 Analysis Date: 01/22/2014 21:29

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>								
			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	2.0	U	5			
1,1-Dichloroethene	75-35-4	96.94	2.0	U	8			
1,2-Dichloroethene, trans-	156-60-5	96.94	2.0	U	8			
1,1-Dichloroethane	75-34-3	98.96	2.0	U	8			
1,2-Dichloroethene, cis-	156-59-2	96.94	2.0	U	8			
1,1,1-Trichloroethane	71-55-6	133.41	2.0	U	11			
Carbon tetrachloride	56-23-5	153.81	2.0	U	13			
1,2-Dichloroethane	107-06-2	98.96	2.0	U	8			
Trichloroethene	79-01-6	131.39	5.7		31			
Tetrachloroethene	127-18-4	165.83	67		450			

Project Name: NA
 Field ID Number: AA-011614-SGP-01
 Laboratory ID Number: 200-20520-2

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Sampling Date: 01/16/2014 12:51
 Analysis Date: 01/22/2014 22:19

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	2.0	U	5			
1,1-Dichloroethene	75-35-4	96.94	2.0	U	8			
1,2-Dichloroethene, trans-	156-60-5	96.94	2.0	U	8			
1,1-Dichloroethane	75-34-3	98.96	2.0	U	8			
1,2-Dichloroethene, cis-	156-59-2	96.94	2.0	U	8			
1,1,1-Trichloroethane	71-55-6	133.41	2.0	U	11			
Carbon tetrachloride	56-23-5	153.81	2.0	U	13			
1,2-Dichloroethane	107-06-2	98.96	2.0	U	8			
Trichloroethene	79-01-6	131.39	2.0	U	11			
Tetrachloroethene	127-18-4	165.83	2.0	U	14			

Project Name: NA
 Field ID Number:
 Laboratory ID Number: MB 200-67464/4

TARGET/NON TARGET ANALYTES -
 AIR RESULTS

Analysis Date: 01/22/2014 13:59

Chemical	CAS Number	Molecular Weight	Lab Results	Q	Corrected Results	Retention		Foot-notes
						Time NT Only	QAS Decision	
<i>TO15LL/NJ</i>			<i>ppb v/v</i>		<i>ug/m3</i>			
Vinyl chloride	75-01-4	62.50	0.20	U	0.5			
1,1-Dichloroethene	75-35-4	96.94	0.20	U	0.8			
1,2-Dichloroethene, trans-	156-60-5	96.94	0.20	U	0.8			
1,1-Dichloroethane	75-34-3	98.96	0.20	U	0.8			
1,2-Dichloroethene, cis-	156-59-2	96.94	0.20	U	0.8			
1,1,1-Trichloroethane	71-55-6	133.41	0.20	U	1			
Carbon tetrachloride	56-23-5	153.81	0.20	U	1			
1,2-Dichloroethane	107-06-2	98.96	0.20	U	0.8			
Trichloroethene	79-01-6	131.39	0.20	U	1			
Tetrachloroethene	127-18-4	165.83	0.20	U	1			

DATA REPORTING QUALIFIERS

Client: URS Corporation

Job Number: 200-20520-1

Sdg Number: 200-20520

Lab Section	Qualifier	Description
Air - GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD:	NJDEPLL TO15	MATRIX:	AIR	QA Review:	Kirstin Daigle			
PREP METHOD:	NA	Instrument(s):	B, C, G	Date Approved:	5/7/2012			
CLEANUP METHOD(s):	NA			TALS Entry:	5/7/2012			
ANALYTE	CAS #	DL ppbv	DL Source ²	LOD ppbv	LOD REF	LOQ ppbv	LOD/DL Ratio	LOQ/LOD Ratio
1,1,1-Trichloroethane	71-55-6	0.020	40CFR	0.080	LOD3	0.20	4.0	2.5
1,1,2,2-Tetrachloroethane	79-34-5	0.011	40CFR	0.040	LOD2	0.20	3.7	5.0
1,1,2-Trichloroethane	79-00-5	0.016	40CFR	0.040	LOD2	0.20	2.6	5.0
1,1-Dichloroethane	75-34-3	0.023	40CFR	0.080	LOD3	0.20	3.5	2.5
1,1-Dichloroethene	75-35-4	0.086	40CFR	0.20	LOD4	0.20	2.3	1.0
1,2,4-Trichlorobenzene	120-82-1	0.030	40CFR	0.080	LOD3	0.50	2.7	6.3
1,2,4-Trimethylbenzene	95-63-6	0.021	40CFR	0.080	LOD3	0.20	3.9	2.5
1,2-Dibromoethane	106-93-4	0.014	40CFR	0.040	LOD2	0.20	2.8	5.0
1,2-Dichlorobenzene	95-50-1	0.026	40CFR	0.080	LOD3	0.20	3.1	2.5
1,2-Dichloroethane	107-06-2	0.018	40CFR	0.040	LOD2	0.20	2.2	5.0
1,2-Dichloropropane	78-87-5	0.023	40CFR	0.080	LOD3	0.20	3.4	2.5
1,2-Dichlorotetrafluoroethane	76-14-2	0.020	40CFR	0.080	LOD3	0.20	4.0	2.5
1,3,5-Trimethylbenzene	108-67-8	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
1,3-Butadiene	106-99-0	0.025	40CFR	0.080	LOD3	0.20	3.3	2.5
1,3-Dichlorobenzene	541-73-1	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
1,4-Dichlorobenzene	106-46-7	0.018	40CFR	0.040	LOD2	0.20	2.2	5.0
1,4-Dioxane	123-91-1	0.070	40CFR	0.20	LOD4	5.0	2.8	25.0
2,2,4-Trimethylpentane	540-84-1	0.015	40CFR	0.040	LOD2	0.20	2.8	5.0
2-Chlorotoluene	95-49-8	0.013	40CFR	0.040	LOD2	0.20	3.1	5.0
3-Chloropropene	107-05-1	0.047	40CFR	0.080	LOD3	0.20	1.7	2.5
4-Ethyltoluene	622-96-8	0.015	40CFR	0.040	LOD2	0.20	2.6	5.0
Acetone	67-64-1	0.40	LTB	0.50	LOD5	5.0	1.3	10.0
Benzene	71-43-2	0.018	40CFR	0.040	LOD2	0.20	2.2	5.0
Bromodichloromethane	75-27-4	0.012	40CFR	0.040	LOD2	0.20	3.4	5.0
Bromoethene(Vinyl Bromide)	593-60-2	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
Bromoform	75-25-2	0.0072	40CFR	0.028	LOD1	0.20	3.9	7.1
Bromomethane	74-83-9	0.027	40CFR	0.080	LOD3	0.20	3.0	2.5
Carbon disulfide	75-15-0	0.020	40CFR	0.080	LOD3	0.50	3.9	6.3
Carbon tetrachloride	56-23-5	0.013	40CFR	0.040	LOD2	0.040	3.0	1.0
Chlorobenzene	108-90-7	0.013	40CFR	0.040	LOD2	0.20	3.0	5.0
Chloroethane	75-00-3	0.033	40CFR	0.080	LOD3	0.50	2.4	6.3
Chloroform	67-66-3	0.024	40CFR	0.080	LOD3	0.20	3.4	2.5
Chloromethane	74-87-3	0.034	LTB	0.080	LOD3	0.50	2.4	6.3
cis-1,2-Dichloroethene	156-59-2	0.084	40CFR	0.20	LOD4	0.20	2.4	1.0
cis-1,3-Dichloropropene	10061-01-5	0.013	40CFR	0.040	LOD2	0.20	3.2	5.0
Cyclohexane	110-82-7	0.019	40CFR	0.040	LOD2	0.20	2.1	5.0
Dibromochloromethane	124-48-1	0.011	40CFR	0.040	LOD2	0.20	3.6	5.0

Detection Limit (DL), Limit of Detection (LOD) & Limit of Quantitation (LOQ) Summary

TEST METHOD:	NJDEPLL TO15	MATRIX:	AIR	QA Review:	Kirstin Daigle			
PREP METHOD:	NA	Instrument(s):	B, C, G	Date Approved:	5/7/2012			
CLEANUP METHOD(s):	NA			TALS Entry:	5/7/2012			
ANALYTE	CAS #	DL ppbv	DL Source ²	LOD ppbv	LOD REF	LOQ ppbv	LOD/DL Ratio	LOQ/LOD Ratio
Dichlorodifluoromethane	75-71-8	0.020	40CFR	0.080	LOD3	0.50	3.9	6.3
Ethylbenzene	100-41-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Freon TF	76-13-1	0.020	40CFR	0.080	LOD3	0.20	3.9	2.5
Hexachlorobutadiene	87-68-3	0.029	40CFR	0.080	LOD3	0.20	2.8	2.5
Isopropyl alcohol	67-63-0	0.076	40CFR	0.20	LOD4	5.0	2.6	25.0
m,p-Xylene	179601-23-1	0.022	40CFR	0.040	LOD2	0.50	1.8	12.5
Methyl Ethyl Ketone	78-93-3	0.025	40CFR	0.080	LOD3	0.50	3.2	6.3
Methyl isobutyl ketone	108-10-1	0.034	40CFR	0.080	LOD3	0.50	2.4	6.3
Methyl methacrylate	80-62-6	0.016	40CFR	0.040	LOD2	0.50	2.5	12.5
Methyl tert-butyl ether	1634-04-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Methylene Chloride	75-09-2	0.023	40CFR	0.080	LOD3	0.50	3.5	6.3
n-Heptane	142-82-5	0.017	40CFR	0.040	LOD2	0.20	2.4	5.0
n-Hexane	110-54-3	0.020	40CFR	0.080	LOD3	0.20	3.9	2.5
Styrene	100-42-5	0.011	40CFR	0.040	LOD2	0.20	3.6	5.0
tert-Butyl alcohol	75-65-0	0.041	40CFR	0.080	LOD3	5.0	2.0	62.4
Tetrachloroethene	127-18-4	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Tetrahydrofuran	109-99-9	0.029	40CFR	0.080	LOD3	5.0	2.7	62.4
Toluene	108-88-3	0.014	40CFR	0.040	LOD2	0.20	2.8	5.0
trans-1,2-Dichloroethene	156-60-5	0.023	40CFR	0.080	LOD3	0.20	3.5	2.5
trans-1,3-Dichloropropene	10061-02-6	0.015	40CFR	0.040	LOD2	0.20	2.7	5.0
Trichloroethene	79-01-6	0.0092	40CFR	0.028	LOD1	0.20	3.1	7.1
Trichlorofluoromethane	75-69-4	0.021	40CFR	0.080	LOD3	0.20	3.9	2.5
Vinyl chloride	75-01-4	0.0091	40CFR	0.028	LOD1	0.20	3.1	7.1
Xylene, o-	95-47-6	0.016	40CFR	0.040	LOD2	0.20	2.4	5.0

¹: Summary Analyte. The DL, LOD and LOQ are set to the value equal to the lowest DL, LOD and LOQ of the component analytes.

²: 40CFR = DL is taken from 40CFR MDL Study. LTB = DL calculated from Long Term Evaluation of Method Blanks

Detection Limit (DL) Study Report

TEST METHOD:	NJDEPLL TO15	Prep Date:	01/26/12
PREP METHOD:	NA	Initial Amount:	200 mL
CLEANUP METHOD(s):	NA	Final Amount:	200 mL
MATRIX:	AIR		
ANALYTE	Date Analyzed:	01/26/12	01/26/12
	Instrument ID:	C	C
	Column Type:	RTX-624	RTX-624
	CAS #	REP 1	REP 2
	Spike	ppbv	ppbv
Carbon tetrachloride	56-23-5	0.031694	0.034823
Trichloroethene	79-01-6	0.036466	0.040282
Vinyl chloride	75-01-4	0.033302	0.039936
		0.042118	0.042118
		0.044945	0.044945
		0.036295	0.036295
		0.042137	0.042137
		0.043993	0.043993
		0.040741	0.040741
		0.041447	0.041447
		0.04253	0.04253
		0.037944	0.037944
		0.038812	0.038812
		0.04377	0.04377
		0.042247	0.042247
	Mean	ppbv	ppbv
	Average	%R	%R
	97%	97%	97%
	105%	105%	105%
	96%	96%	96%
	STD	DEV	DEV
	0.00422	0.00422	0.00422
	0.00292	0.00292	0.00292
	0.00291	0.00291	0.00291
	DL	ppbv	ppbv
	0.013	0.013	0.013
	0.0092	0.0092	0.0092
	0.0091	0.0091	0.0091
	Spike/ DL	Ratio	Ratio
	3.0	3.0	3.0
	4.4	4.4	4.4
	4.4	4.4	4.4

Detection Limit (DL) Study Report

TEST METHOD:		NJDELL TO15		Prep Date:		01/16/12									
PREP METHOD:		NA		Initial Amount:		200 mL									
CLEANUP METHOD(S):		NA		Final Amount:		200 mL									
MATRIX:		AIR													
ANALYTE	CAS #	Spike ppbv	Date Analyzed:		01/16/12		01/16/12		Mean ppbv	Average %R	STD DEV	DL ppbv	Spike/DL Ratio		
			Instrument ID:	Column Type:	C	C	C	C						C	C
Bromoform	75-25-2	0.050	RTX-624	REP 1	ppbv	0.045891	0.041705	0.040813	0.045382	0.039864	0.039841	0.042451	0.00229	0.0072	6.9
Bromomethane	74-83-9	0.10	RTX-624	REP 2	ppbv	0.130761	0.125472	0.136931	0.139073	0.112846	0.128623	0.126832	0.00861	0.027	3.7
Carbon disulfide	75-15-0	0.050	RTX-624	REP 3	ppbv	0.075073	0.058149	0.057821	0.069229	0.067015	0.059374	0.062664	0.00651	0.020	2.4
Chlorobenzene	108-90-7	0.10	RTX-624	REP 4	ppbv	0.102284	0.103269	0.112214	0.1103	0.102188	0.108552	0.103462	0.00420	0.013	7.6
Chloroethane	75-00-3	0.10	RTX-624	REP 5	ppbv	0.122704	0.112536	0.123091	0.135228	0.100856	0.120214	0.120826	0.01056	0.033	3.0
Chloroform	67-66-3	0.10	RTX-624	REP 6	ppbv	0.113871	0.109272	0.121736	0.117094	0.099934	0.119677	0.10854	0.00756	0.024	4.2
Chloromethane	74-87-3	0.050	RTX-624	REP 7	ppbv	0.127751	0.106998	0.116366	0.118031	0.09826	0.119097	0.109065	0.00964	0.030	1.6
cis-1,2-Dichloroethene	156-59-2	0.10	RTX-624	REP 8	ppbv	0.112903	0.087185	0.15046	0.113794	0.081309	0.137783	0.0884	0.02659	0.084	1.2
cis-1,3-Dichloropropene	10061-01-5	0.10	RTX-624	REP 9	ppbv	0.106437	0.106466	0.110124	0.109975	0.09883	0.109418	0.104207	0.00404	0.013	7.9
Cumene	98-82-8	0.10	RTX-624	REP 10	ppbv	0.085224	0.088124	0.091429	0.08698	0.083612	0.090868	0.081757	0.00360	0.011	8.8
Cyclohexane	110-82-7	0.10	RTX-624	REP 11	ppbv	0.102476	0.092597	0.104788	0.109388	0.098017	0.11024	0.103469	0.00619	0.019	5.1
Dibromochloromethane	124-48-1	0.10	RTX-624	REP 12	ppbv	0.085564	0.087052	0.09343	0.091867	0.084292	0.085365	0.085664	0.00357	0.011	8.9
Dibromomethane	74-95-3	0.10	RTX-624	REP 13	ppbv	0.104595	0.107389	0.109047	0.107532	0.096097	0.107164	0.098533	0.00502	0.016	6.3
Dichlorodifluoromethane	75-71-8	0.10	RTX-624	REP 14	ppbv	0.125414	0.126865	0.127053	0.134674	0.122344	0.120975	0.113685	0.00646	0.020	4.9
Ethanol	64-17-5	1.00	RTX-624	REP 15	ppbv	0.969299	1.020308	1.070641	1.039724	0.956727	1.006232	0.900894	0.05696	0.179	5.6
Ethyl acetate	141-78-6	0.50	RTX-624	REP 16	ppbv	0.429368	0.472311	0.454595	0.456607	0.447219	0.465664	0.495475	0.02075	0.065	7.6
Ethyl ether	60-29-7	0.10	RTX-624	REP 17	ppbv	0.093526	0.100116	0.106814	0.099036	0.08939	0.102939	0.094416	0.00598	0.019	5.3
Ethylbenzene	100-41-4	0.10	RTX-624	REP 18	ppbv	0.090417	0.092208	0.095145	0.097014	0.083311	0.096034	0.092317	0.00463	0.015	6.9
Freon 22	75-45-6	0.10	RTX-624	REP 19	ppbv	0.150983	0.139723	0.141181	0.142633	0.132819	0.13492	0.128858	0.00729	0.023	4.4
Freon TF	76-13-1	0.10	RTX-624	REP 20	ppbv	0.107548	0.105615	0.113483	0.116446	0.096401	0.111776	0.108877	0.00651	0.020	4.9
Hexachlorobutadiene	87-68-3	0.10	RTX-624	REP 21	ppbv	0.097644	0.071429	0.074537	0.0913	0.087521	0.085486	0.080987	0.00922	0.029	3.4
Isopentane	78-78-4	0.10	RTX-624	REP 22	ppbv	0.127579	0.187384	0.169759	0.17624	0.141859	0.159417	0.154617	0.02048	0.064	1.6
Isopropyl alcohol	67-63-0	0.50	RTX-624	REP 23	ppbv	0.572061	0.521524	0.50583	0.515674	0.541903	0.502692	0.535203	0.02419	0.076	6.6
m,p-Xylene	179601-23-1	0.20	RTX-624	REP 24	ppbv	0.162862	0.171383	0.181162	0.17433	0.166483	0.180529	0.169046	0.00689	0.022	9.2
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.50	RTX-624	REP 25	ppbv	0.483758	0.451819	0.477876	0.469687	0.482335	0.470408	0.454572	0.01273	0.040	12.5
Methyl Ethyl Ketone	78-93-3	0.10	RTX-624	REP 26	ppbv	0.078894	0.082858	0.089406	0.078321	0.076614	0.08675	0.065473	0.00783	0.025	4.1
Methyl isobutyl ketone	108-10-1	0.50	RTX-624	REP 27	ppbv	0.487199	0.487166	0.491268	0.497069	0.489725	0.508268	0.47318	0.01066	0.034	14.9
Methyl methacrylate	80-62-6	0.10	RTX-624	REP 28	ppbv	0.062633	0.069693	0.075979	0.077813	0.072156	0.072629	0.068253	0.00506	0.016	6.3
Methyl tert-butyl ether	1634-04-4	0.10	RTX-624	REP 29	ppbv	0.096	0.106222	0.105087	0.101422	0.094621	0.101694	0.095566	0.00473	0.015	6.7
Methylene Chloride	75-09-2	0.10	RTX-624	REP 30	ppbv	0.186679	0.180651	0.190941	0.19634	0.17427	0.184107	0.182069	0.00719	0.023	4.4
Naphthalene	91-20-3	0.10	RTX-624	REP 31	ppbv	0.095391	0.069495	0.067525	0.070833	0.078978	0.094064	0.069779	0.01199	0.038	2.6
n-Butane	106-97-8	0.050	RTX-624	REP 32	ppbv	0.09185	0.074788	0.074602	0.085903	0.077214	0.072987	0.081057	0.00694	0.022	2.3
n-Butanol	71-36-3	0.50	RTX-624	REP 33	ppbv	0.60719	0.668807	0.573518	0.531713	0.568194	0.634713	0.604817	0.04541	0.143	3.5

Detection Limit (DL) Study Report

TEST METHOD:		NJDELL TO15		Prep Date:		01/16/12						
PREP METHOD:		NA		Initial Amount:		200 mL						
CLEANUP METHOD(S):		NA		Final Amount:		200 mL						
MATRIX:		AIR										
ANALYTE	CAS #	Date Analyzed:	Spike ppbv	01/16/12		01/16/12		Mean ppbv	Average %R	STD DEV	DL ppbv	Spike/DL Ratio
				Instrument ID:	C	C	C					
		Column Type:		REP 1	REP 2	REP 3	REP 4	REP 5	REP 6	REP 7		
n-Butylbenzene	104-51-8	RTX-624	0.050	0.048137	0.028586	0.029114	0.03042	0.035355	0.029657	0.031059	0.022	2.3
n-Decane	124-18-5	RTX-624	0.050	0.036546	0.022044	0.020162	0.023891	0.026808	0.0212	0.026588	0.018	2.9
n-Dodecane	112-40-3	RTX-624	0.50	0.627098	0.480578	0.473868	0.474722	0.571975	0.47566	0.497409	0.191	2.6
n-Heptane	142-82-5	RTX-624	0.10	0.09942	0.10363	0.111768	0.109175	0.097895	0.109455	0.10716	0.017	6.0
n-Hexane	110-54-3	RTX-624	0.050	0.073875	0.05334	0.057888	0.064359	0.063601	0.06049	0.065062	0.020	2.5
n-Nonane	111-84-2	RTX-624	0.050	0.050916	0.041586	0.043278	0.04702	0.043524	0.045371	0.044423	0.010	5.2
n-Octane	111-65-9	RTX-624	0.10	0.102898	0.102016	0.109872	0.10588	0.0989	0.109196	0.108147	0.013	7.7
n-Pentane	109-66-0	RTX-624	0.10	0.113422	0.112879	0.122504	0.124181	0.10199	0.115375	0.119221	0.023	4.3
n-Propylbenzene	103-65-1	RTX-624	0.050	0.045237	0.034802	0.031889	0.037885	0.039789	0.03589	0.036715	0.013	3.8
n-Undecane	1120-21-4	RTX-624	0.50	0.264815	0.245186	0.235354	0.243748	0.260431	0.239573	0.244349	0.034	14.6
Propylene	115-07-1	RTX-624	0.50	0.60298	0.617479	0.605271	0.627917	0.623967	0.691435	0.636873	0.094	5.3
sec-Butylbenzene	135-98-8	RTX-624	0.10	0.073975	0.076789	0.078233	0.081733	0.076792	0.073771	0.066755	0.015	6.8
Styrene	100-42-5	RTX-624	0.050	0.044637	0.038055	0.034198	0.04162	0.03885	0.036069	0.040379	0.011	4.6
tert-Butyl alcohol	75-65-0	RTX-624	0.50	0.508232	0.496266	0.480641	0.489734	0.509943	0.513052	0.514001	0.041	12.3
tert-Butylbenzene	98-06-6	RTX-624	0.050	0.0437	0.035827	0.032872	0.039288	0.040358	0.036458	0.038936	0.011	4.5
Tetrachloroethene	127-18-4	RTX-624	0.10	0.102889	0.103282	0.109897	0.111806	0.098738	0.10689	0.101255	0.015	6.7
Tetrahydrofuran	109-99-9	RTX-624	0.50	0.526214	0.508039	0.517002	0.536047	0.522949	0.511868	0.51802	0.029	16.9
Toluene	108-88-3	RTX-624	0.10	0.101053	0.100661	0.106148	0.108643	0.097266	0.109432	0.104239	0.014	7.1
trans-1,2-Dichloroethene	156-60-5	RTX-624	0.10	0.107583	0.103375	0.113143	0.112858	0.092156	0.108578	0.109256	0.023	4.4
trans-1,3-Dichloropropene	10061-02-6	RTX-624	0.10	0.095167	0.098962	0.106149	0.106491	0.095199	0.102061	0.09792	0.015	6.7
Trichlorofluoromethane	75-69-4	RTX-624	0.050	0.077581	0.059176	0.059963	0.071561	0.065175	0.064871	0.069117	0.021	2.4
Vinyl acetate	108-05-4	RTX-624	0.50	0.494487	0.509174	0.494689	0.500711	0.516169	0.498506	0.498208	0.025	19.7
Xylene, o-	95-47-6	RTX-624	0.10	0.087382	0.088147	0.097469	0.093614	0.086955	0.091865	0.081519	0.016	6.1

Limit of Detection (LOD) Verification Report

TEST METHOD:		NJDEPLLT015		Prep Date:	1/31/2012, 02/06/12		Instrument(s):					
PREP METHOD:		NA		Initial Amount:	200 mL		B			C		
CLEANUP METHOD(s):		NA		Final Amount:	200 mL		RTX-624			RTX-624		
MATRIX:		AIR		LOD Ref:	1							
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
Bromoform	75-25-2	0.0072	0.0072	0.028	3.9	Y	0.0236358	01/31/12	0.0269937	02/06/12	0.0310274	01/31/12
Trichloroethene	79-01-6	0.0092	0.0092	0.028	3.1	Y	0.0369347	01/31/12	0.0357282	02/06/12	0.0370572	01/31/12
Vinyl chloride	75-01-4	0.0091	0.0091	0.028	3.1	Y	0.0382497	01/31/12	0.0271757	02/06/12	0.0427657	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLO15		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
	PREP METHOD:	NA	Initial Amount:	200 mL	B			C			G	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624			RTX-624			RTX-624		
MATRIX:	AIR	LOD Ref:	2									
ANALYTE	CAS #	ppbv	ppbv	Spike	Spike/DL	Pass	Result	Date	Result	Date	Result	Date
				ppbv	Ratio	Y/N	ppbv	Analyzed	ppbv	Analyzed	ppbv	Analyzed
1,1,2,2-tetrachloroethane	79-34-5	0.011	0.040	0.040	3.6	Y	0.0439484	01/30/12	0.0367094	01/30/12	0.0368553	01/31/12
1,1,2-Trichloroethane	79-00-5	0.016	0.040	0.040	2.5	Y	0.04085	01/30/12	0.0383681	01/30/12	0.0375874	01/31/12
1,2-Dibromoethane	106-93-4	0.014	0.040	0.040	2.9	Y	0.0382115	01/30/12	0.0373325	01/30/12	0.0413789	01/31/12
1,2-Dichloroethane	107-06-2	0.018	0.040	0.040	2.2	Y	0.043269	01/30/12	0.044657	01/30/12	0.0427347	01/31/12
1,3,5-Trimethylbenzene	108-67-8	0.019	0.040	0.040	2.1	Y	0.0448217	01/30/12	0.0356625	01/30/12	0.0229489	01/31/12
1,3-Dichlorobenzene	541-73-1	0.019	0.040	0.040	2.1	Y	0.0440867	01/30/12	0.0375736	01/30/12	0.0483551	01/31/12
1,4-Dichlorobenzene	106-46-7	0.018	0.040	0.040	2.2	Y	0.0467479	01/30/12	0.0378337	01/30/12	0.0332018	01/31/12
2,2,4-Trimethylpentane	540-84-1	0.015	0.040	0.040	2.7	Y	0.0458012	01/30/12	0.0432881	01/30/12	0.0413784	01/31/12
2-Chlorotoluene	95-49-8	0.013	0.040	0.040	3.1	Y	0.0477588	01/30/12	0.0398619	01/30/12	0.0273756	01/31/12
4-Ethyltoluene	622-96-8	0.015	0.040	0.040	2.7	Y	0.0413871	01/30/12	0.03224089	01/30/12	0.0183816	01/31/12
Alpha Methyl Styrene	98-83-9	0.018	0.040	0.040	2.2	Y	0.0283359	01/30/12	0.0241925	01/30/12	0.0361873	01/31/12
Benzene	71-43-2	0.018	0.040	0.040	2.2	Y	0.0566347	01/30/12	0.0538394	01/30/12	0.0488064	01/31/12
Bromodichloromethane	75-27-4	0.012	0.040	0.040	3.3	Y	0.0416361	01/30/12	0.0401186	01/30/12	0.0400368	01/31/12
Bromoethene(Vinyl Bromide)	593-60-2	0.019	0.040	0.040	2.1	Y	0.0477646	01/30/12	0.0390748	01/30/12	0.0509984	01/31/12
Carbon tetrachloride	56-23-5	0.019	0.040	0.040	2.1	Y	0.0450564	01/30/12	0.0453807	01/30/12	0.0445167	01/31/12
Chlorobenzene	108-90-7	0.013	0.040	0.040	3.1	Y	0.0509605	01/30/12	0.0454508	01/30/12	0.0435362	01/31/12
cis-1,3-Dichloropropene	10061-01-5	0.013	0.040	0.040	3.1	Y	0.0409175	01/30/12	0.0482381	01/30/12	0.048195	01/31/12
Cumene	98-82-8	0.011	0.040	0.040	3.6	Y	0.0423284	01/30/12	0.0378653	01/30/12	0.0334343	01/31/12
Cyclohexane	110-82-7	0.013	0.040	0.040	3.1	Y	0.0501248	01/30/12	0.0390593	01/30/12	0.0475519	01/31/12
Dibromochloromethane	124-48-1	0.011	0.040	0.040	3.6	Y	0.0355362	01/30/12	0.0354374	01/30/12	0.0358777	01/31/12
Dibromomethane	74-95-3	0.016	0.040	0.040	2.5	Y	0.0458574	01/30/12	0.0384973	01/30/12	0.0533226	01/31/12
Ethyl ether	60-29-7	0.019	0.040	0.040	2.1	Y	0.0360172	01/30/12	0.0208922	01/30/12	0.0468287	01/31/12
Ethylbenzene	100-41-4	0.015	0.040	0.040	2.7	Y	0.0470157	01/30/12	0.0410152	01/30/12	0.031831	01/31/12
m,p-Xylene	179601-23-1	0.022	0.080	0.080	3.7	Y	0.0866301	01/30/12	0.0737886	01/30/12	0.0660686	01/31/12
Methyl methacrylate	80-62-6	0.016	0.040	0.040	2.5	Y	0.0206074	01/30/12	0.0208438	01/30/12	0.0234625	01/31/12
Methyl tert-butyl ether	1634-04-4	0.015	0.040	0.040	2.7	Y	0.0444376	01/30/12	0.0448008	01/30/12	0.0421109	01/31/12
n-Decane	124-18-5	0.010	0.040	0.040	4.0	Y	0.0452386	01/30/12	0.0212837	01/30/12	0.0306513	01/31/12
n-Heptane	142-82-5	0.017	0.040	0.040	2.4	Y	0.0479421	01/30/12	0.0424606	01/30/12	0.0476082	01/31/12
n-Nonane	111-84-2	0.010	0.040	0.040	4.0	Y	0.0450012	01/30/12	0.035101	01/30/12	0.0350987	01/31/12
n-Octane	111-65-9	0.013	0.040	0.040	3.1	Y	0.0462756	01/30/12	0.0443126	01/30/12	0.0605262	01/31/12
n-Propylbenzene	103-65-1	0.013	0.040	0.040	3.1	Y	0.0471636	01/30/12	0.0289208	01/30/12	0.0273027	01/31/12
sec-Butylbenzene	135-98-8	0.015	0.040	0.040	2.7	Y	0.044853	01/30/12	0.0347986	01/30/12	0.0245313	01/31/12
Styrene	100-42-5	0.011	0.040	0.040	3.6	Y	0.0313848	01/30/12	0.0323169	01/30/12	0.0333362	01/31/12
tert-Butylbenzene	98-06-6	0.011	0.040	0.040	3.6	Y	0.043188	01/30/12	0.0312036	01/30/12	0.0288258	01/31/12
Tetrachloroethene	127-18-4	0.015	0.040	0.040	2.7	Y	0.0432741	01/30/12	0.041753	01/30/12	0.0617601	01/31/12
Toluene	108-88-3	0.014	0.040	0.040	2.9	Y	0.0469235	01/30/12	0.0421189	01/30/12	0.0477686	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:		NJDEPLLO15		Prep Date:		01/30/12, 01/31/12		Instrument(s):				
PREP METHOD:		NA		Initial Amount:		200 mL		B		C		
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624		RTX-624		
MATRIX:		AIR		LOD Ref:		2						
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
trans-1,3-Dichloropropene	10061-02-6	0.015	0.040	0.040	2.7	Y	0.0354448	01/30/12	0.0450151	01/30/12	0.040721	01/31/12
Xylene, o-	95-47-6	0.016	0.040	0.040	2.5	Y	0.0416562	01/30/12	0.0359343	01/30/12	0.0382714	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLT015		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
	PREP METHOD:	NA	Initial Amount:	200 mL	B			C			G	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624			RTX-624			RTX-624		
MATRIX:	AIR	LOD Ref:	3									
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
1, 1, 1-Trichloroethane	71-55-6	0.020	0.080	0.080	4.0	Y	0.0847092	01/30/12	0.085857	01/30/12	0.1010164	01/31/12
1, 1-Dichloroethane	75-34-3	0.023	0.080	0.080	3.5	Y	0.0931831	01/30/12	0.0857771	01/30/12	0.0986975	01/31/12
1, 2, 3-Trichlorobenzene	87-61-6	0.041	0.080	0.080	2.0	Y	0.0539692	01/30/12	0.0771812	01/30/12	0.0473325	01/31/12
1, 2, 3-Trichloropropane	96-18-4	0.025	0.080	0.080	3.2	Y	0.0977633	01/30/12	0.0754392	01/30/12	0.0944615	01/31/12
1, 2, 4-Trichlorobenzene	120-82-1	0.030	0.080	0.080	2.7	Y	0.0566003	01/30/12	0.0789511	01/30/12	0.0435911	01/31/12
1, 2, 4-Trimethylbenzene	95-63-6	0.021	0.080	0.080	3.8	Y	0.0829333	01/30/12	0.0685175	01/30/12	0.0631691	01/31/12
1, 2-Dichlorobenzene	95-50-1	0.026	0.080	0.080	3.1	Y	0.085858	01/30/12	0.0752173	01/30/12	0.0806144	01/31/12
1, 2-Dichloropropane	78-87-5	0.023	0.080	0.080	3.5	Y	0.0891035	01/30/12	0.0819475	01/30/12	0.0842903	01/31/12
1, 2-Dichlorotetrafluoroethane	76-14-2	0.020	0.080	0.080	4.0	Y	0.0942239	01/30/12	0.0950581	01/30/12	0.0974105	01/31/12
1, 3-Butadiene	106-99-0	0.025	0.080	0.080	3.2	Y	0.0955856	01/30/12	0.088752	01/30/12	0.084439	01/31/12
3-Chloropropene	107-05-1	0.047	0.080	0.080	1.7	Y	0.0993075	01/30/12	0.091879	01/30/12	0.1066344	01/31/12
4-Isopropyltoluene	99-87-6	0.020	0.080	0.080	4.0	Y	0.0788073	01/30/12	0.0615909	01/30/12	0.0668848	01/31/12
Acrylonitrile	107-13-1	0.023	0.080	0.080	3.5	Y	0.0697887	01/30/12	0.0685497	01/30/12	0.0882696	01/31/12
Benzyl chloride	100-44-7	0.022	0.080	0.080	3.6	Y	0.0765995	01/30/12	0.0641082	01/30/12	0.0700765	01/31/12
Bromomethane	74-83-9	0.027	0.080	0.080	3.0	Y	0.0930672	01/30/12	0.1028085	01/30/12	0.0944654	01/31/12
Carbon disulfide	75-15-0	0.020	0.080	0.080	4.0	Y	0.0905713	01/30/12	0.0853358	01/30/12	0.0909487	01/31/12
Chloroethane	75-00-3	0.033	0.080	0.080	2.4	Y	0.0917268	01/30/12	0.089895	01/30/12	0.1090466	01/31/12
Chloroform	67-66-3	0.024	0.080	0.080	3.3	Y	0.0919575	01/30/12	0.0870513	01/30/12	0.0988419	01/31/12
Chloromethane	74-87-3	0.034	0.080	0.080	2.4	Y	0.1161505	01/30/12	0.1338395	01/30/12	0.1092541	01/31/12
Dichlorodifluoromethane	75-71-8	0.020	0.080	0.080	4.0	Y	0.0970985	01/30/12	0.0993256	01/30/12	0.1069844	01/31/12
Freon 22	75-45-6	0.023	0.080	0.080	3.5	Y	0.1103272	01/30/12	0.1130052	01/30/12	0.1133509	01/31/12
Freon TF	76-13-1	0.020	0.080	0.080	4.0	Y	0.0864918	01/30/12	0.0909698	01/30/12	0.0951117	01/31/12
Hexachlorobutadiene	87-68-3	0.029	0.080	0.080	2.8	Y	0.088581	01/30/12	0.0782484	01/30/12	0.1003174	01/31/12
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.040	0.080	0.080	2.0	Y	0.0498435	01/30/12	0.0577654	01/30/12	0.0609178	01/31/12
Methyl Ethyl Ketone	78-93-3	0.025	0.080	0.080	3.2	Y	0.0872113	01/30/12	0.0687485	01/30/12	0.1159597	01/31/12
Methyl isobutyl ketone	108-10-1	0.034	0.080	0.080	2.4	Y	0.0662186	01/30/12	0.0665661	01/30/12	0.0747982	01/31/12
Methylene Chloride	75-09-2	0.023	0.080	0.080	3.5	Y	0.151845	01/30/12	0.1578643	01/30/12	0.129091	01/31/12
Naphthalene	91-20-3	0.038	0.080	0.080	2.1	Y	0.0384757	01/30/12	0.0722274	01/30/12	0.024552	01/31/12
n-Butane	106-97-8	0.022	0.080	0.080	3.6	Y	0.100763	01/30/12	0.0958848	01/30/12	0.1046282	01/31/12
n-Butylbenzene	104-51-8	0.022	0.080	0.080	3.6	Y	0.0837784	01/30/12	0.0570576	01/30/12	0.0580806	01/31/12
n-Hexane	110-54-3	0.020	0.080	0.080	4.0	Y	0.0873752	01/30/12	0.0821212	01/30/12	0.08679	01/31/12
n-Pentane	109-66-0	0.023	0.080	0.080	3.5	Y	0.1048033	01/30/12	0.0910497	01/30/12	0.0965429	01/31/12
n-Undecane	1120-21-4	0.034	0.080	0.080	2.4	Y	0.1022867	01/30/12	0.0466734	01/30/12	0.0571363	01/31/12
tert-Butyl alcohol	75-65-0	0.041	0.080	0.080	2.0	Y	0.0774393	01/30/12	0.0757495	01/30/12	0.0971297	01/31/12
Tetrahydrofuran	109-99-9	0.029	0.080	0.080	2.8	Y	0.0860254	01/30/12	0.0813159	01/30/12	0.0882096	01/31/12
trans-1, 2-Dichloroethene	156-60-5	0.023	0.080	0.080	3.5	Y	0.0847762	01/30/12	0.0794756	01/30/12	0.0924157	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLT015	Prep Date:	01/30/12, 01/31/12	Instrument(s):			
PREP METHOD:	NA	Initial Amount:	200 mL	B		C	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624		RTX-624	
MATRIX:	AIR	LOD Ref:	3				
ANALYTE	CAS #	ppbv	Spike	Spike/DL	Pass	Date	Date
		ppbv	ppbv	Ratio	Y/N	Analyzed	Analyzed
Trichlorofluoromethane	75-69-4	0.021	0.080	3.8	Y	01/30/12	01/30/12
Vinyl acetate	108-05-4	0.025	0.080	3.2	Y	01/30/12	01/30/12
						0.089964	0.1038024
						0.0670452	0.0689756
						0.094083	0.1038024
						0.0689756	0.086645
						01/30/12	01/31/12
						01/30/12	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:		NJDEPLLT015		Prep Date:		01/30/12, 01/31/12		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		B		C		G	
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624		RTX-624		RTX-624	
MATRIX:		AIR		LOD Ref:		4							
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Spike/DL Ratio	Pass Y/N		Result ppbv	Date Analyzed	Result ppbv	Date Analyzed	Result ppbv	Date Analyzed
1,1-Dichloroethene	75-35-4	0.086	0.086	0.20	2.3	Y		0.21544	01/30/12	0.2414822	01/30/12	0.1941059	01/31/12
1,4-Dioxane	123-91-1	0.070	0.070	0.20	2.9	Y		0.1538093	01/30/12	0.1757113	01/30/12	0.1706352	01/31/12
Acetonitrile	75-05-8	0.082	0.082	0.20	2.4	Y		0.2620567	01/30/12	0.4688481	01/30/12	0.2682369	01/31/12
Acrolein	107-02-8	0.067	0.067	0.20	3.0	Y		0.2478182	01/30/12	0.2085343	01/30/12	0.2568267	01/31/12
cis-1,2-Dichloroethene	156-59-2	0.084	0.084	0.20	2.4	Y		0.2065816	01/30/12	0.2304565	01/30/12	0.217851	01/31/12
Ethanol	64-17-5	0.18	0.18	0.40	2.2	Y		0.6113607	01/30/12	0.4718399	01/30/12	0.5560324	01/31/12
Ethyl acetate	141-78-6	0.065	0.065	0.20	3.1	Y		0.0826342	01/30/12	0.0257973	01/30/12	0.2569577	01/31/12
Isopentane	78-78-4	0.064	0.064	0.20	3.1	Y		0.2421419	01/30/12	0.2361926	01/30/12	0.2148304	01/31/12
Isopropyl alcohol	67-63-0	0.076	0.076	0.20	2.6	Y		0.1918079	01/30/12	0.1819499	01/30/12	0.2239464	01/31/12
n-Butanol	71-36-3	0.14	0.14	0.20	1.4	Y		0.1789814	01/30/12	0.2396682	01/30/12	0.2954564	01/31/12
n-Dodecane	112-40-3	0.19	0.19	0.20	1.0	Y		0.1615149	01/30/12	0.2051198	01/30/12	0.1318974	01/31/12
Propylene	115-07-1	0.094	0.094	0.20	2.1	Y		0.271858	01/30/12	0.3481022	01/30/12	0.2677293	01/31/12

Limit of Detection (LOD) Verification Report

TEST METHOD:	NJDEPLLO15	Prep Date:	01/30/12, 01/31/12	Instrument(s):			
PREP METHOD:	NA	Initial Amount:	200 mL	B		C	
CLEANUP METHOD(s):	NA	Final Amount:	200 mL	RTX-624		RTX-624	
MATRIX:	AIR	LOD Ref:	4				
ANALYTE	CAS #	ppbv	Spike	Spike/DL	Pass	Result	Date
Acetone	67-64-1	ppbv	ppbv	Ratio	Y/N	ppbv	Analyzed
		0.40	0.50	1.3	Y	1.05682	01/30/12
						0.8803931	01/30/12
						0.9494763	01/31/12

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		NJDEPLLT015		Prep Date:		01/30/12, 01/31/12, 02/1		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		B		C		G	
CLEANUP METHOD(s):		NA		Final Amount:		200 mL		RTX-624		RTX-624		RTX-624	
MATRIX:		AIR		CSV Ref:		LOQ		01/30/12, 01/31/12		01/30/12, 02/09/12, 02/28/12		01/31/12	
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Ratio	Pass	Spike / LOQ Ratio	Result ppbv	%R	Result ppbv	%R	Result ppbv	%R
1,1,1-Trichloroethane	71-55-6	0.20	0.20	0.20	1.0	Y	1.0	0.2413639	107	0.20413639	102	0.2478879	124
1,1,2,2-Tetrachloroethane	79-34-5	0.20	0.20	0.20	1.0	Y	1.0	0.2190932	110	0.198034594	99	0.1973121	99
1,1,2-Trichloroethane	79-00-5	0.20	0.20	0.20	1.0	Y	1.0	0.2067923	103	0.198735441	99	0.2353734	118
1,1-Dichloroethane	75-34-3	0.20	0.20	0.20	1.0	Y	1.0	0.2315938	116	0.195251478	98	0.2178936	109
1,1-Dichloroethene	75-35-4	0.20	0.20	0.20	1.0	Y	1.0	0.2156916	108	0.236801737	118	0.2295669	115
1,2,3-Trichlorobenzene	87-61-6	0.20	0.20	0.20	1.0	Y	1.0	0.124589	62	0.175465772	88	0.1194694	60
1,2,3-Trichloropropane	96-18-4	0.50	0.50	0.50	1.0	Y	1.0	0.5973531	119	0.49043631	98	0.5194116	104
1,2,4-Trichlorobenzene	120-82-1	0.50	0.50	0.50	1.0	Y	1.0	0.3865497	77	0.443693854	89	0.3481276	70
1,2,4-Trimethylbenzene	95-63-6	0.20	0.20	0.20	1.0	Y	1.0	0.1980249	99	0.184375444	92	0.1835486	92
1,2-Dibromoethane	106-93-4	0.20	0.20	0.20	1.0	Y	1.0	0.1826634	91	0.181906254	91	0.2259952	113
1,2-Dichlorobenzene	95-50-1	0.20	0.20	0.20	1.0	Y	1.0	0.1917522	96	0.195517514	98	0.2038696	102
1,2-Dichloroethane	107-06-2	0.20	0.20	0.20	1.0	Y	1.0	0.2202224	110	0.20169939	101	0.2573214	129
1,2-Dichloropropane	78-87-5	0.20	0.20	0.20	1.0	Y	1.0	0.2269977	113	0.19984162	100	0.1994906	100
1,2-Dichlorotetrafluoroethane	76-14-2	0.20	0.20	0.20	1.0	Y	1.0	0.2558942	128	0.226962474	113	0.2166011	108
1,3,5-Trimethylbenzene	108-67-8	0.20	0.20	0.20	1.0	Y	1.0	0.2052589	103	0.182155396	91	0.1949404	97
1,3-Butadiene	106-99-0	0.20	0.20	0.20	1.0	Y	1.0	0.240449	120	0.212136957	106	0.207543	104
1,3-Dichlorobenzene	541-73-1	0.20	0.20	0.20	1.0	Y	1.0	0.1904339	95	0.189661204	95	0.2039491	102
1,4-Dichlorobenzene	106-46-7	0.20	0.20	0.20	1.0	Y	1.0	0.1811234	91	0.187857839	94	0.1899928	95
1,4-Dioxane	123-91-1	5.0	5.0	5.0	1.0	Y	1.0	5.214428	104	4.519464281	91	5.2969506	106
2,2,4-Trimethylpentane	540-84-1	0.20	0.20	0.20	1.0	Y	1.0	0.2269492	113	0.18981289	95	0.2068431	103
2-Chlorotoluene	95-49-8	0.20	0.20	0.20	1.0	Y	1.0	0.215235	108	0.186098239	93	0.2324965	116
3-Chloropropene	107-05-1	0.20	0.20	0.20	1.0	Y	1.0	0.2505149	125	0.206991005	103	0.2258961	113
4-Ethyltoluene	622-96-8	0.20	0.20	0.20	1.0	Y	1.0	0.2007357	100	0.168665588	84	0.1977668	99
4-Isopropyltoluene	99-87-6	0.20	0.20	0.20	1.0	Y	1.0	0.190941	95	0.174423806	87	0.1910409	96
Acetone	67-64-1	5.0	5.0	5.0	1.0	Y	1.0	6.8730918	138	4.868555067	98	6.127913	123
Acetonitrile	75-05-8	5.0	5.0	5.0	1.0	Y	1.0	6.3148979	127	5.280957546	106	5.0024665	100
Acrolein	107-02-8	5.0	5.0	5.0	1.0	Y	1.0	5.9856251	120	4.506646391	90	6.2722431	126
Acrylonitrile	107-13-1	0.50	0.50	0.50	1.0	Y	1.0	0.5651999	113	0.466895501	93	0.4965948	99
Alpha Methyl Styrene	98-83-9	0.20	0.20	0.20	1.0	Y	1.0	0.1511434	76	0.142595619	71	0.1719449	86
Benzene	71-43-2	0.20	0.20	0.20	1.0	Y	1.0	0.2278442	114	0.205776913	103	0.2311636	116
Benzyl chloride	100-44-7	0.20	0.20	0.20	1.0	Y	1.0	0.1887917	94	0.173426176	87	0.1754307	88
Bromodichloromethane	75-27-4	0.20	0.20	0.20	1.0	Y	1.0	0.2043207	102	0.178787348	89	0.2241085	112
Bromoethene(Vinyl Bromide)	593-60-2	0.20	0.20	0.20	1.0	Y	1.0	0.2341048	117	0.202929167	101	0.2178155	109
Bromoform	75-25-2	0.20	0.20	0.20	1.0	Y	1.0	0.1518521	76	0.155865313	78	0.2132712	107
Bromomethane	74-83-9	0.20	0.20	0.20	1.0	Y	1.0	0.2482376	124	0.235466793	118	0.2183876	109
Carbon disulfide	75-15-0	0.50	0.50	0.50	1.0	Y	1.0	0.583639	117	0.498735702	100	0.4880552	98

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		NJEPLLT015		Prep Date:		01/30/12, 01/31/12, 02/01/12		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		B		C		G	
CLEANUP METHOD(S):		NA		Final Amount:		200 mL		RTX-624		RTX-624		RTX-624	
MATRIX:		AIR		CSV Ref:		LOQ		01/30/12, 01/31/12		01/30/12, 02/09/12, 02/28/12		01/31/12	
ANALYTE	CAS #	ppbv	ppbv	Spike ppbv	Ratio	Pass	Spike / LOQ Ratio	Result ppbv	%R	Result ppbv	%R	Result ppbv	%R
Carbon tetrachloride	56-23-5	0.040	0.040	0.040	1.0	Y	1.0	0.0473575	118	0.057302274	143	0.0503509	126
Chlorobenzene	108-90-7	0.20	0.20	0.20	1.0	Y	1.0	0.2062465	103	0.20444255	102	0.2411045	121
Chloroethane	75-00-3	0.50	0.50	0.50	1.0	Y	1.0	0.6750309	135	0.561782534	112	0.552979	111
Chloroform	67-66-3	0.20	0.20	0.20	1.0	Y	1.0	0.2207505	110	0.208729889	104	0.2151206	108
Chloromethane	74-87-3	0.50	0.50	0.50	1.0	Y	1.0	0.7072121	141	0.572340069	114	0.5452139	109
cis-1,2-Dichloroethene	156-59-2	0.20	0.20	0.20	1.0	Y	1.0	0.2050401	103	0.233783716	117	0.2441383	122
cis-1,3-Dichloropropene	10061-01-5	0.20	0.20	0.20	1.0	Y	1.0	0.1984556	99	0.196129627	98	0.2190777	110
Cumene	98-82-8	0.20	0.20	0.20	1.0	Y	1.0	0.1919965	96	0.194614906	97	0.2096771	105
Cyclohexane	110-82-7	0.20	0.20	0.20	1.0	Y	1.0	0.2122781	106	0.192938431	96	0.2086209	104
Dibromochloromethane	124-48-1	0.20	0.20	0.20	1.0	Y	1.0	0.1740128	87	0.169791393	85	0.2171467	109
Dibromomethane	74-95-3	0.20	0.20	0.20	1.0	Y	1.0	0.1859379	93	0.186893166	93	0.2350577	118
Dichlorodifluoromethane	75-71-8	0.50	0.50	0.50	1.0	Y	1.0	0.6652969	133	0.605556406	121	0.5640332	113
Ethanol	64-17-5	5.0	5.0	5.0	1.0	Y	1.0	6.414391	128	4.588677443	92	4.5392526	91
Ethyl acetate	141-78-6	5.0	5.0	5.0	1.0	Y	1.0	5.1923032	104	4.050578521	81	5.2451261	105
Ethyl ether	60-29-7	0.20	0.20	0.20	1.0	Y	1.0	0.2113528	106	0.199897571	100	0.1967665	98
Ethylbenzene	100-41-4	0.20	0.20	0.20	1.0	Y	1.0	0.2100009	105	0.192919809	96	0.2107844	105
Freon 22	75-45-6	0.50	0.50	0.50	1.0	Y	1.0	0.6807316	136	0.534866731	107	0.5578464	112
Freon TF	76-13-1	0.20	0.20	0.20	1.0	Y	1.0	0.219404	110	0.210084144	105	0.2112665	106
Hexachlorobutadiene	87-68-3	0.20	0.20	0.20	1.0	Y	1.0	0.1960653	98	0.210306905	105	0.2692485	135
Isopentane	78-78-4	0.20	0.20	0.20	1.0	Y	1.0	0.2693743	135	0.242683191	121	0.2101781	105
Isopropyl alcohol	67-63-0	5.0	5.0	5.0	1.0	Y	1.0	5.7955138	116	4.748712087	95	5.8711771	118
m,p-Xylene	179601-23-1	0.40	0.40	0.40	1.0	Y	1.0	0.4079192	102	0.373681854	93	0.4171524	104
Methyl Butyl Ketone (2-Hexanone)	591-78-6	0.50	0.50	0.50	1.0	Y	1.0	0.4598035	92	0.432799764	87	0.5299716	106
Methyl Ethyl Ketone	78-93-3	0.50	0.50	0.50	1.0	Y	1.0	0.5817211	116	0.513150981	103	0.5314954	106
Methyl isobutyl ketone	108-10-1	0.50	0.50	0.50	1.0	Y	1.0	0.5368203	107	0.465013224	93	0.4965566	99
Methyl methacrylate	80-62-6	0.50	0.50	0.50	1.0	Y	1.0	0.4559876	91	0.422457781	84	0.4628928	93
Methyl tert-butyl ether	1634-04-4	0.20	0.20	0.20	1.0	Y	1.0	0.2109562	105	0.215864572	108	0.1961266	98
Methylene Chloride	75-09-2	0.50	0.50	0.50	1.0	Y	1.0	0.6933183	139	0.560089251	112	0.5694856	114
Naphthalene	91-20-3	0.50	0.50	0.50	1.0	Y	1.0	0.380915	76	0.427072059	85	0.3103585	62
n-Butane	106-97-8	0.50	0.50	0.50	1.0	Y	1.0	0.6783094	136	0.525345233	105	0.5107488	102
n-Butanol	71-36-3	5.0	5.0	5.0	1.0	Y	1.0	5.2636989	105	4.63588975	93	5.4638248	109
n-Butylbenzene	104-51-8	0.20	0.20	0.20	1.0	Y	1.0	0.216894	108	0.157349697	79	0.1672985	84
n-Decane	124-18-5	0.50	0.50	0.50	1.0	Y	1.0	0.625222	125	0.307285191	61	0.432654	87
n-Dodecane	112-40-3	5.0	5.0	5.0	1.0	Y	1.0	6.5131796	131	2.645476656	53	4.6162814	93
n-Heptane	142-82-5	0.20	0.20	0.20	1.0	Y	1.0	0.2393929	120	0.185069607	93	0.2075883	104
n-Hexane	110-54-3	0.20	0.20	0.20	1.0	Y	1.0	0.2256931	113	0.194778498	97	0.2108638	105

Limit of Quantitation (LOQ) Verification Report

TEST METHOD:		NJDEPLLT015		Prep Date:		01/30/12, 01/31/12, 02/		Instrument(s):					
PREP METHOD:		NA		Initial Amount:		200 mL		C					
CLEANUP METHOD(S):		NA		Final Amount:		200 mL		RTX-624					
MATRIX:		AIR		LOQ		Pass		B		C		G	
ANALYTE	CAS #	ppbv	Spike ppbv	Ratio	LOQ	Spoke / LOQ Ratio	Pass	Result ppbv	%R	Result ppbv	%R	Result ppbv	%R
n-Nonane	111-84-2	0.20	0.20	1.0	Y	0.233004	Y	0.169124795	117	0.169124795	85	0.1954915	98
n-Octane	111-65-9	0.50	0.50	1.0	Y	0.6737594	Y	0.448385812	135	0.448385812	90	0.4802081	96
n-Pentane	109-66-0	0.50	0.50	1.0	Y	0.6811029	Y	0.489728166	136	0.489728166	98	0.4541239	91
n-Propylbenzene	103-65-1	0.20	0.20	1.0	Y	0.2176803	Y	0.180087873	109	0.180087873	90	0.2056518	103
n-Undecane	1120-21-4	5.0	5.0	1.0	Y	7.0288046	Y	5.340271543	141	5.340271543	107	4.2634973	85
Propylene	115-07-1	5.0	5.0	1.0	Y	6.2890372	Y	4.963429273	126	4.963429273	99	5.0779861	102
sec-Butylbenzene	135-98-8	0.20	0.20	1.0	Y	0.2136936	Y	0.186399819	107	0.186399819	93	0.1992368	100
Styrene	100-42-5	0.20	0.20	1.0	Y	0.1610885	Y	0.168681925	81	0.168681925	84	0.1825784	91
tert-Butyl alcohol	75-65-0	5.0	5.0	1.0	Y	5.7298763	Y	4.769935009	115	4.769935009	96	5.8027565	116
tert-Butylbenzene	98-06-6	0.20	0.20	1.0	Y	0.2031567	Y	0.187843873	102	0.187843873	94	0.2195841	110
Tetrachloroethene	127-18-4	0.20	0.20	1.0	Y	0.18203	Y	0.191830153	91	0.191830153	96	0.26346	132
Tetrahydrofuran	109-99-9	5.0	5.0	1.0	Y	6.4020166	Y	4.179536752	128	4.179536752	84	4.9814126	100
Toluene	108-88-3	0.20	0.20	1.0	Y	0.2146481	Y	0.193888307	107	0.193888307	97	0.2518171	126
trans-1,2-Dichloroethene	156-60-5	0.20	0.20	1.0	Y	0.2281665	Y	0.191509899	114	0.191509899	96	0.2067603	103
trans-1,3-Dichloropropene	10061-02-6	0.20	0.20	1.0	Y	0.1920366	Y	0.186799607	96	0.186799607	93	0.234312	117
Trichloroethene	79-01-6	0.040	0.040	1.0	Y	0.0459406	Y	0.047078137	115	0.047078137	117	0.047473	118
Trichlorofluoromethane	75-69-4	0.20	0.20	1.0	Y	0.2293409	Y	0.217889263	115	0.217889263	109	0.2307896	115
Vinyl acetate	108-05-4	5.0	5.0	1.0	Y	6.2197289	Y	4.530989643	125	4.530989643	91	5.5677659	112
Vinyl chloride	75-01-4	0.040	0.040	1.0	Y	0.0455769	Y	0.037653748	114	0.037653748	94	0.048425	121
Xylene, o-	95-47-6	0.20	0.20	1.0	Y	0.1900893	Y	0.194634968	95	0.194634968	97	0.2085756	104

Note: Pass = The %R on each instrument is within 50-150%

Method T015 Low Level - New Jersey

Volatile Organic Compounds - Low
level (GC/MS) by New Jersey Method
TO 15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-20520-1
 SDG No.: 200-20520
 Matrix: Air Level: Low Lab File ID: wakv05.d
 Lab ID: LCS 200-67464/5 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	0.200	0.220	110	60-140	
1,1-Dichloroethene	0.200	0.195 J	97	60-140	
1,2-Dichloroethene, trans-	0.200	0.208	104	60-140	
1,1-Dichloroethane	0.200	0.212	106	60-140	
1,2-Dichloroethene, cis-	0.200	0.202	101	60-140	
1,1,1-Trichloroethane	0.200	0.213	106	60-140	
Carbon tetrachloride	0.200	0.202	101	60-140	
1,2-Dichloroethane	0.200	0.206	103	60-140	
Trichloroethene	0.200	0.214	107	60-140	
Tetrachloroethene	0.200	0.218	109	60-140	

Column to be used to flag recovery and RPD values

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20520-1
 SDG No.: 200-20520
 Lab File ID: wakv04.d Lab Sample ID: MB 200-67464/4
 Matrix: Air Heated Purge: (Y/N) N
 Instrument ID: CHW.i Date Analyzed: 01/22/2014 13:59
 GC Column: RTX-624 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-67464/5	wakv05.d	01/22/2014 14:47
SG-011614-SGP-01	200-20520-1	wakv13.d	01/22/2014 21:29
AA-011614-SGP-01	200-20520-2	wakv14.d	01/22/2014 22:19

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-20520-1
 SDG No.: 200-20520
 Lab File ID: wak001.d BFB Injection Date: 12/12/2013
 Instrument ID: CHW.i BFB Injection Time: 15:40
 Analysis Batch No.: 65930

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	13.0	
75	30.0 - 66.0% of mass 95	44.7	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.5	(0.5)1
174	50.0 - 120.0% of mass 95	100.6	
175	4.0 - 9.0 % of mass 174	7.1	(7.1)1
176	93.0 - 101.0% of mass 174	97.7	(97.1)1
177	5.0 - 9.0% of mass 176	6.6	(6.8)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-65930/4	wak004.d	12/12/2013	18:12
	IC 200-65930/5	wak005.d	12/12/2013	19:03
	IC 200-65930/6	wak006.d	12/12/2013	19:52
	IC 200-65930/7	wak007.d	12/12/2013	20:40
	ICIS 200-65930/8	wak008.d	12/12/2013	21:29
	IC 200-65930/9	wak009.d	12/12/2013	22:18
	IC 200-65930/10	wak010.d	12/12/2013	23:07
	IC 200-65930/11	wak011.d	12/12/2013	23:57
	ICV 200-65930/14	wak014.d	12/13/2013	02:26

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-20520-1
 SDG No.: 200-20520
 Lab File ID: wakv01.d BFB Injection Date: 01/22/2014
 Instrument ID: CHW.i BFB Injection Time: 10:56
 Analysis Batch No.: 67464

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	13.2	
75	30.0 - 66.0% of mass 95	44.6	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	7.0	
173	Less than 2.0% of mass 174	0.6	(0.6)1
174	50.0 - 120.0% of mass 95	101.8	
175	4.0 - 9.0 % of mass 174	7.2	(7.1)1
176	93.0 - 101.0% of mass 174	98.6	(96.9)1
177	5.0 - 9.0% of mass 176	6.5	(6.6)2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-67464/3	wakv03.d	01/22/2014	12:55
	MB 200-67464/4	wakv04.d	01/22/2014	13:59
	LCS 200-67464/5	wakv05.d	01/22/2014	14:47
	LCS 200-67464/6	wakv06.d	01/22/2014	15:37
	LCS 200-67464/7	wakv07.d	01/22/2014	16:26
SG-011614-SGP-01	200-20520-1	wakv13.d	01/22/2014	21:29
AA-011614-SGP-01	200-20520-2	wakv14.d	01/22/2014	22:19
	CCVC 200-67464/27	wakv27.d	01/23/2014	10:48

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20520-1
 SDG No.: 200-20520
 Sample No.: ICIS 200-65930/8 Date Analyzed: 12/12/2013 21:29
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): wak008.d Heated Purge: (Y/N) N
 Calibration ID: 24718

	BCM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	248225	12.87	1207029	14.76	1082079	20.45
UPPER LIMIT	347515	13.20	1689841	15.09	1514911	20.78
LOWER LIMIT	148935	12.54	724217	14.43	649247	20.12
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-65930/14	239504	12.87	1142712	14.75	1065474	20.45

BCM = Chlorobromomethane
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

Area Limit = 60%-140% of internal standard area
 RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-20520-1
 SDG No.: 200-20520
 Sample No.: CCVIS 200-67464/3 Date Analyzed: 01/22/2014 12:55
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm)
 Lab File ID (Standard): wakv03.d Heated Purge: (Y/N) N
 Calibration ID: 24718

	BCM		DFB		CBZ			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	392560	12.86	1876358	14.75	1677544	20.45		
UPPER LIMIT	549584	13.19	2626901	15.08	2348562	20.78		
LOWER LIMIT	235536	12.53	1125815	14.42	1006526	20.12		
LAB SAMPLE ID	CLIENT SAMPLE ID							
MB 200-67464/4			345849	12.86	1693034	14.75	1453058	20.45
LCS 200-67464/5			361042	12.87	1718632	14.76	1500740	20.45
LCS 200-67464/6			360152	12.86	1729289	14.75	1518805	20.45
LCS 200-67464/7			357664	12.86	1728864	14.75	1556373	20.45
200-20520-1	SG-011614-SGP-01		309790	12.87	1541930	14.76	1403774	20.45
200-20520-2	AA-011614-SGP-01		320470	12.87	1492067	14.76	1269724	20.45
CCVC 200-67464/27			343325	12.87	1623834	14.76	1485300	20.45

BCM = Chlorobromomethane
 DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5

RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-20520-1
 SDG No.: 200-20520
 Client Sample ID: SG-011614-SGP-01 Lab Sample ID: 200-20520-1
 Matrix: Air Lab File ID: wakv13.d
 Analysis Method: TO15LL/NJ Date Collected: 01/16/2014 12:51
 Sample wt/vol: 20 (mL) Date Analyzed: 01/22/2014 21:29
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 67464 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	2.0	U	2.0	0.38
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.24
156-60-5	1,2-Dichloroethene, trans-	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	2.0	U	2.0	0.38
156-59-2	1,2-Dichloroethene, cis-	2.0	U	2.0	0.38
71-55-6	1,1,1-Trichloroethane	2.0	U	2.0	0.21
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.21
107-06-2	1,2-Dichloroethane	2.0	U	2.0	0.17
79-01-6	Trichloroethene	5.7		2.0	0.24
127-18-4	Tetrachloroethene	67		2.0	0.16

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-20520-1
 SDG No.: 200-20520
 Client Sample ID: AA-011614-SGP-01 Lab Sample ID: 200-20520-2
 Matrix: Air Lab File ID: wakv14.d
 Analysis Method: TO15LL/NJ Date Collected: 01/16/2014 12:51
 Sample wt/vol: 20 (mL) Date Analyzed: 01/22/2014 22:19
 Soil Aliquot Vol: _____ Dilution Factor: 10
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 67464 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	2.0	U	2.0	0.38
75-35-4	1,1-Dichloroethene	2.0	U	2.0	0.24
156-60-5	1,2-Dichloroethene, trans-	2.0	U	2.0	0.29
75-34-3	1,1-Dichloroethane	2.0	U	2.0	0.38
156-59-2	1,2-Dichloroethene, cis-	2.0	U	2.0	0.38
71-55-6	1,1,1-Trichloroethane	2.0	U	2.0	0.21
56-23-5	Carbon tetrachloride	2.0	U	2.0	0.21
107-06-2	1,2-Dichloroethane	2.0	U	2.0	0.17
79-01-6	Trichloroethene	2.0	U	2.0	0.24
127-18-4	Tetrachloroethene	2.0	U	2.0	0.16

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-20520-1 Analy Batch No.: 65930

SDG No.: 200-20520

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/12/2013 18:12 Calibration End Date: 12/12/2013 23:57 Calibration ID: 24718

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-65930/4	wak004.d
Level 2	IC 200-65930/5	wak005.d
Level 3	IC 200-65930/6	wak006.d
Level 4	IC 200-65930/7	wak007.d
Level 5	ICIS 200-65930/8	wak008.d
Level 6	IC 200-65930/9	wak009.d
Level 7	IC 200-65930/10	wak010.d
Level 8	IC 200-65930/11	wak011.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	++++ 4.0127	++++ 3.7871	4.0771 3.6104	3.5425	4.0272	Ave		3.8428			6.0		30.0				
1,2-Dichlorotetrafluoroethane	++++ 3.7079	3.6219 3.5041	3.8666 3.2874	3.2774	3.7402	Ave		3.5722			6.3		30.0				
Chloromethane	++++ 0.6827	++++ 0.6601	0.6793 0.6465	0.5944	0.6753	Ave		0.6564			5.1		30.0				
Vinyl chloride	++++ 0.9248	0.8293 0.9388	0.8845 0.8637	0.7757	0.9228	Ave		0.8771			6.7		30.0				
1,3-Butadiene	++++ 0.5933	0.5458 0.6313	0.3447 0.5801	0.5135	0.6028	Ave		0.5445			18.0		30.0				
Bromomethane	++++ 0.9929	0.9302 0.9884	1.0175 0.9283	0.8407	0.9729	Ave		0.9530			6.2		30.0				
Chloroethane	++++ 0.5158	++++ 0.4856	0.2254 0.4927	0.4648	0.5416	Ave		0.4543			25.0		30.0				
Vinyl bromide	++++ 1.4182	1.2679 1.3063	1.2953 1.2964	1.2061	1.3949	Ave		1.3122			5.6		30.0				
Trichlorofluoromethane	++++ 4.3300	4.0385 4.0915	4.3114 3.9435	3.7548	4.3024	Ave		4.1103			5.3		30.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 2.7731	2.6341 2.5978	2.8528 2.4573	2.4543	2.7999	Ave		2.6528			6.1		30.0				
1,1-Dichloroethene	++++ 1.2963	1.1606 1.2262	1.2538 1.1810	1.1104	1.2811	Ave		1.2156			5.6		30.0				
Acetone	++++ 1.3839	++++ 1.3010	++++ 1.2390	1.2874	1.7579	Ave		1.3938			15.0		30.0				
Carbon disulfide	++++ 3.3188	++++ 3.1671	3.2853 3.0449	2.8640	3.3170	Ave		3.1662			5.8		30.0				
Isopropanol	++++ 1.0521	++++ 0.9581	++++ 0.9067	0.9342	1.0931	Ave		0.9889			8.1		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-20520-1 Analy Batch No.: 65930

SDG No.: 200-20520

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/12/2013 18:12 Calibration End Date: 12/12/2013 23:57 Calibration ID: 24718

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Allyl chloride	++++ 0.9529	0.7130 0.9184	0.8157 0.9056	0.7955	0.9269	Ave		0.8611			10.0		30.0				
Methylene Chloride	++++ 0.9162	++++ 0.8753	0.5943 0.8480	0.8205	0.8977	Ave		0.8253			14.0		30.0				
tert-Butyl alcohol	++++ 2.0611	++++ 1.8960	++++ 1.8468	1.7433	2.0981	Ave		1.9291			7.7		30.0				
Methyl tert-butyl ether	++++ 3.9933	++++ 3.1244 3.7957	1.6582 3.6202	3.2930	3.8456	Ave		3.3329			24.0		30.0				
1,2-Dichloroethene, trans-	++++ 1.6369	1.4955 1.5692	1.5840 1.5196	1.4066	1.6293	Ave		1.5487			5.3		30.0				
n-Hexane	++++ 1.5715	1.2940 1.5142	1.5414 1.4327	1.3633	1.5581	Ave		1.4679			7.3		30.0				
1,1-Dichloroethane	++++ 1.9752	1.8489 1.9098	1.9653 1.8207	1.7438	1.9724	Ave		1.8909			4.7		30.0				
1,2-Dichloroethene, cis-	++++ 1.4039	1.1574 1.3591	1.3209 1.2567	1.2146	1.4091	Ave		1.3031			7.4		30.0				
Methyl Ethyl Ketone	++++ 0.5831	++++ 0.5510	0.6045 0.5032	0.5151	0.5889	Ave		0.5576			7.5		30.0				
Tetrahydrofuran	++++ 0.1799	++++ 0.1727	++++ 0.1599	0.1542	0.1780	Ave		0.1689			6.7		30.0				
Chloroform	++++ 2.9887	2.7116 2.8775	2.9070 2.7346	2.5775	2.9457	Ave		2.8204			5.3		30.0				
Cyclohexane	++++ 0.3677	0.3032 0.3534	0.3443 0.3168	0.3299	0.3691	Ave		0.3406			7.4		30.0				
1,1,1-Trichloroethane	++++ 0.7235	0.6099 0.7028	0.7024 0.6493	0.6292	0.7194	Ave		0.6766			6.8		30.0				
Carbon tetrachloride	++++ 0.7908	0.6511 0.7634	0.7337 0.7159	0.6803	0.7799	Ave		0.7307			7.1		30.0				
2,2,4-Trimethylpentane	++++ 1.0048	0.7733 0.9658	0.9058 0.8720	0.8786	0.9920	Ave		0.9132			8.9		30.0				
Benzene	++++ 0.7787	0.7042 0.7493	0.7961 0.6858	0.6967	0.7771	Ave		0.7411			6.1		30.0				
1,2-Dichloroethane	++++ 0.3981	0.3284 0.3848	0.3664 0.3690	0.3391	0.3873	Ave		0.3676			7.0		30.0				
n-Heptane	++++ 0.3103	0.2608 0.2965	0.2792 0.2704	0.2688	0.3038	Ave		0.2843			6.8		30.0				
Trichloroethene	++++ 0.4107	0.3613 0.3932	0.3894 0.3643	0.3620	0.4070	Ave		0.3840			5.6		30.0				
1,2-Dichloropropane	++++ 0.2391	0.2000 0.2287	0.2206 0.2118	0.2080	0.2353	Ave		0.2205			6.6		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-20520-1 Analy Batch No.: 65930
 SDG No.: 200-20520
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 12/12/2013 18:12 Calibration End Date: 12/12/2013 23:57 Calibration ID: 24718

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
Methyl methacrylate	++++ 0.2758	++++ 0.2658	0.1902 0.2540	0.2276	0.2684	Ave		0.2470			13.0		30.0				
1,4-Dioxane	++++ 0.1316	++++ 0.1144	++++ 0.1080	0.1186	0.1368	Ave		0.1219			9.8		30.0				
Bromodichloromethane	++++ 0.6786	0.4998 0.6491	0.5790 0.6097	0.5733	0.6554	Ave		0.6064			10.0		30.0				
1,3-Dichloropropene, cis-	++++ 0.4533	0.2725 0.4369	0.3344 0.4179	0.3679	0.4282	Ave		0.3873			17.0		30.0				
Methyl isobutyl ketone	++++ 0.4086	++++ 0.3849	0.2963 0.3680	0.3381	0.4012	Ave		0.3662			12.0		30.0				
Toluene	++++ 0.6821	0.6506 0.6332	0.7231 0.5633	0.6455	0.6786	Ave		0.6538			7.6		30.0				
1,3-Dichloropropene, trans-	++++ 0.5024	0.2947 0.4781	0.3569 0.4683	0.4023	0.4751	Ave		0.4254			18.0		30.0				
1,1,2-Trichloroethane	++++ 0.3259	0.2529 0.3077	0.2995 0.2854	0.2861	0.3176	Ave		0.2964			8.2		30.0				
Tetrachloroethene	++++ 0.8043	0.7107 0.7517	0.8045 0.6710	0.7319	0.7988	Ave		0.7533			6.9		30.0				
Dibromochloromethane	++++ 0.8885	0.6111 0.8410	0.7075 0.7812	0.7548	0.8739	Ave		0.7797			13.0		30.0				
1,2-Dibromoethane	++++ 0.6951	0.5209 0.6601	0.5965 0.6178	0.5896	0.6748	Ave		0.6221			9.6		30.0				
Chlorobenzene	++++ 1.0500	1.0179 0.9866	1.0602 0.9115	0.9373	1.0422	Ave		1.0008			5.8		30.0				
Ethylbenzene	++++ 1.6261	1.3137 1.5326	1.5311 1.3970	1.4466	1.6153	Ave		1.4946			7.7		30.0				
m-Xylene & p-Xylene	++++ 0.6266	0.5340 0.5827	0.6358 0.5275	0.5793	0.6315	Ave		0.5882			7.7		30.0				
o-Xylene	++++ 0.6382	0.5077 0.5950	0.5602 0.5416	0.5745	0.6461	Ave		0.5805			8.6		30.0				
Styrene	++++ 0.9731	0.5870 0.9224	0.7597 0.8530	0.8441	0.9741	Ave		0.8448			16.0		30.0				
Bromoform	++++ 0.8919	0.5369 0.8411	0.6649 0.7660	0.7618	0.8827	Ave		0.7636			17.0		30.0				
1,1,2,2-Tetrachloroethane	++++ 0.8322	0.7302 0.7774	0.7998 0.7020	0.7563	0.8514	Ave		0.7785			6.9		30.0				
4-Ethyltoluene	++++ 2.0442	1.5885 1.8941	1.9315 1.6601	1.8352	2.0833	Ave		1.8624			9.9		30.0				
2-Chlorotoluene	++++ 1.6750	1.4841 1.5583	1.6449 1.3976	1.4965	1.7026	Ave		1.5656			7.2		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-20520-1 Analy Batch No.: 65930
 SDG No.: 200-20520
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 12/12/2013 18:12 Calibration End Date: 12/12/2013 23:57 Calibration ID: 24718

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
1,3,5-Trimethylbenzene	+++++	1.5650	1.7970	1.6518	1.8635	Ave		1.7068			7.9		30.0				
	1.8416	1.7093	1.5197														
1,2,4-Trimethylbenzene	+++++	1.3752	1.6759	1.6080	1.8398	Ave		1.6455			10.0		30.0				
	1.8234	1.6847	1.5115														
1,3-Dichlorobenzene	+++++	0.9539	1.0523	1.0279	1.2481	Ave		1.1095			10.0		30.0				
	1.2482	1.1704	1.0654														
1,4-Dichlorobenzene	+++++	0.8651	0.9451	0.9710	1.2075	Ave		1.0618			13.0		30.0				
	1.2249	1.1573	1.0617														
1,2-Dichlorobenzene	+++++	0.9727	1.0090	1.0144	1.2132	Ave		1.0853			9.4		30.0				
	1.2186	1.1329	1.0366														
1,2,4-Trichlorobenzene	+++++	+++++	0.3613	0.3752	0.6525	Ave		0.5669			28.0		30.0				
	0.7080	0.6290	0.6751														
Hexachlorobutadiene	+++++	0.8408	0.9076	0.8045	0.9536	Ave		0.8601			8.8		30.0				
	0.9320	0.8418	0.7408														

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-20520-1 Analy Batch No.: 65930

SDG No.: 200-20520

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/12/2013 18:12 Calibration End Date: 12/12/2013 23:57 Calibration ID: 24718

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-65930/4	wak004.d
Level 2	IC 200-65930/5	wak005.d
Level 3	IC 200-65930/6	wak006.d
Level 4	IC 200-65930/7	wak007.d
Level 5	ICIS 200-65930/8	wak008.d
Level 6	IC 200-65930/9	wak009.d
Level 7	IC 200-65930/10	wak010.d
Level 8	IC 200-65930/11	wak011.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Dichlorodifluoromethane	BCM	Ave	++++ 1498852	++++ 2036941	49981 3865186	485352	999456	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	++++ 1384998	18222 1884732	47401 3519414	449033	928242	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	++++ 255025	++++ 355046	8328 692163	81439	167606	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	++++ 345433	4172 504923	10843 924618	106280	229012	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	++++ 221609	2746 339558	4226 621026	70353	149610	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	++++ 370868	4680 531610	12473 993761	115181	241442	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	++++ 192683	++++ 261212	2763 527430	63675	134403	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Vinyl bromide	BCM	Ave	++++ 529735	6379 702612	15879 1387891	165241	346182	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	++++ 1617376	20318 2200642	52854 4221765	514440	1067747	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloro-1,2,2-trifluoroethane	BCM	Ave	++++ 1035821	13252 1397265	34973 2630721	336259	694880	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethene	BCM	Ave	++++ 484212	5839 659534	15370 1264367	152129	317945	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetone	BCM	Ave	++++ 516939	++++ 699772	++++ 1326389	176381	436259	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Carbon disulfide	BCM	Ave	++++ 1239670	++++ 1703476	40275 3259822	392390	823193	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Isopropanol	BCM	Ave	++++ 392981	++++ 515348	++++ 970703	127995	271288	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Allyl chloride	BCM	Ave	++++ 355925	3587 493946	10000 969536	108983	230038	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-20520-1 Analy Batch No.: 65930
 SDG No.: 200-20520
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N
 Calibration Start Date: 12/12/2013 18:12 Calibration End Date: 12/12/2013 23:57 Calibration ID: 24718

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Methylene Chloride	BCM	Ave	++++ 342226	++++ 470784	7285 907794	112408	222792	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
tert-Butyl alcohol	BCM	Ave	++++ 769883	++++ 1019788	++++ 1977171	238846	520688	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Methyl tert-butyl ether	BCM	Ave	++++ 1491587	15719 2041570	20328 3875641	451169	954394	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethene, trans-	BCM	Ave	++++ 611440	7524 844028	19418 1626841	192709	404364	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Hexane	BCM	Ave	++++ 586998	6510 814414	18896 1533795	186775	386694	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethane	BCM	Ave	++++ 737782	9302 1027200	24093 1949133	238918	489508	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethene, cis-	BCM	Ave	++++ 524392	5823 731013	16193 1345344	166414	349712	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Ethyl Ketone	BCM	Ave	++++ 217816	++++ 296370	7410 538711	70567	146155	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Tetrahydrofuran	DFB	Ave	++++ 329205	++++ 451139	++++ 852155	101249	214828	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Chloroform	BCM	Ave	++++ 1116352	13642 1547678	35637 2927600	353138	731043	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFB	Ave	++++ 673028	7515 923175	20413 1688008	216636	445466	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFB	Ave	++++ 1324300	15118 1835675	41648 3459556	413102	868137	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFB	Ave	++++ 1447512	16139 1993842	43501 3814449	446706	941186	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFB	Ave	++++ 1839233	19168 2522729	53707 4646331	576881	1197101	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFB	Ave	++++ 1425296	17456 1957216	47199 3654247	457446	937791	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFB	Ave	++++ 728704	8141 1005157	21725 1966384	222650	467406	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFB	Ave	++++ 568000	6465 774565	16555 1440616	176521	366662	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichloroethene	DFB	Ave	++++ 751793	8957 1026975	23087 1941309	237693	491220	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFB	Ave	++++ 437616	4958 597332	13080 1128560	136596	284011	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFB	Ave	++++ 504843	++++ 694248	11279 1353223	149417	323850	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFB	Ave	++++ 240826	++++ 298849	++++ 575243	77888	165035	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-20520-1 Analy Batch No.: 65930

SDG No.: 200-20520

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/12/2013 18:12 Calibration End Date: 12/12/2013 23:57 Calibration ID: 24718

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Bromodichloromethane	DFB	Ave	++++ 1242171	12388 1695508	34332 3248918	376429	790894	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichloropropene, cis-	DFB	Ave	++++ 829761	6754 1141045	19828 2226486	241583	516718	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl isobutyl ketone	DFB	Ave	++++ 747823	++++ 1005345	17569 1960750	222015	484157	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Toluene	CBZ	Ave	++++ 1121753	13704 1485517	37247 2730529	374209	734178	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichloropropene, trans-	DFB	Ave	++++ 919654	7304 1248842	21161 2495427	264182	573361	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBZ	Ave	++++ 536001	5327 721781	15426 1383319	165867	343630	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Tetrachloroethene	CBZ	Ave	++++ 1322635	14970 1763608	41440 3252617	424268	864187	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBZ	Ave	++++ 1461120	12873 1972982	36443 3787104	437541	945498	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dibromoethane	CBZ	Ave	++++ 1143093	10973 1548606	30725 2994648	341782	730003	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chlorobenzene	CBZ	Ave	++++ 1726735	21441 2314513	54606 4418570	543348	1127504	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylbenzene	CBZ	Ave	++++ 2674126	27672 3595593	78861 6771998	838534	1747508	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
m-Xylene & p-Xylene	CBZ	Ave	++++ 2060996	22497 2733985	65501 5114351	671615	1366350	++++ 30.0	0.401 40.0	1.00 80.0	9.99	20.0
o-Xylene	CBZ	Ave	++++ 1049575	10695 1395981	28855 2625249	333005	699008	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Styrene	CBZ	Ave	++++ 1600269	12364 2163997	39130 4134957	489313	1053878	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoform	CBZ	Ave	++++ 1466678	11309 1973332	34246 3713054	441577	954966	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	++++ 1368578	15382 1823711	41194 3402773	438385	921128	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Ethyltoluene	CBZ	Ave	++++ 3361751	33462 4443607	99489 8047332	1063848	2253825	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2-Chlorotoluene	CBZ	Ave	++++ 2754570	31263 3655890	84726 6775236	867515	1842004	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3,5-Trimethylbenzene	CBZ	Ave	++++ 3028455	32967 4010127	92557 7366666	957486	2016034	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,4-Trimethylbenzene	CBZ	Ave	++++ 2998517	28967 3952293	86321 7327196	932117	1990462	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBZ	Ave	++++ 2052740	20094 2745844	54201 5164611	595827	1350281	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

FORM VI
 AIR - GC/MS VOA INITIAL CALIBRATION DATA
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-20520-1 Analy Batch No.: 65930

SDG No.: 200-20520

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/12/2013 18:12 Calibration End Date: 12/12/2013 23:57 Calibration ID: 24718

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
1,4-Dichlorobenzene	CBZ	Ave	++++ 2014386	18222 2715131	48678 5146856	562877	1306309	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorobenzene	CBZ	Ave	++++ 2004035	20489 2657751	51971 5024963	588045	1312502	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,4-Trichlorobenzene	CBZ	Ave	++++ 1164315	++++ 1475667	18612 3272796	217472	705913	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Hexachlorobutadiene	CBZ	Ave	++++ 1532640	17711 1974819	46747 3591316	466367	1031628	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00

Curve Type Legend:

Ave = Average ISTD

FORM III
AIR - GC/MS VOA INITIAL CALIBRATION VERIFICATION RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-20520-1
 SDG No.: 200-20520
 Matrix: Air Level: Low Lab File ID: wak014.d
 Lab ID: ICV 200-65930/14 Client ID: _____

COMPOUND	SPIKE ADDED (ppb v/v)	ICV CONCENTRATION (ppb v/v)	ICV % REC	QC LIMITS REC	#
Vinyl chloride	10.0	10.8	108	70-130	
1,1-Dichloroethene	10.0	12.4	124	70-130	
1,2-Dichloroethene, trans-	10.0	11.3	114	70-130	
1,1-Dichloroethane	10.0	11.3	113	70-130	
1,2-Dichloroethene, cis-	10.0	11.7	117	70-130	
1,1,1-Trichloroethane	10.0	12.0	120	70-130	
Carbon tetrachloride	10.0	11.3	113	70-130	
1,2-Dichloroethane	10.0	11.5	115	70-130	
Trichloroethene	10.0	11.3	113	70-130	
Tetrachloroethene	10.0	10.6	106	70-130	

Column to be used to flag recovery and RPD values

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-20520-1
 SDG No.: 200-20520
 Lab Sample ID: CCVIS 200-67464/3 Calibration Date: 01/22/2014 12:55
 Instrument ID: CHW.i Calib Start Date: 12/12/2013 18:12
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 12/12/2013 23:57
 Lab File ID: wakv03.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	3.843	3.862		10.0	10.0	0.5	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.572	3.704		10.4	10.0	3.7	30.0
Chloromethane	Ave	0.6564	0.6923		10.5	10.0	5.5	30.0
Vinyl chloride	Ave	0.8771	0.8840		10.1	10.0	0.8	30.0
1,3-Butadiene	Ave	0.5445	0.5641		10.4	10.0	3.6	30.0
Bromomethane	Ave	0.9530	0.9490		9.96	10.0	-0.4	30.0
Chloroethane	Ave	0.4543	0.5369		11.8	10.0	18.2	30.0
Vinyl bromide	Ave	1.312	1.392		10.6	10.0	6.1	30.0
Trichlorofluoromethane	Ave	4.110	4.137		10.1	10.0	0.7	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.653	2.715		10.2	10.0	2.3	30.0
1,1-Dichloroethene	Ave	1.216	1.253		10.3	10.0	3.1	30.0
Acetone	Ave	1.394	1.474		10.6	10.0	5.7	30.0
Carbon disulfide	Ave	3.166	3.237		10.2	10.0	2.2	30.0
Isopropanol	Ave	0.9889	1.034		10.5	10.0	4.5	30.0
Allyl chloride	Ave	0.8611	0.9279		10.8	10.0	7.7	30.0
Methylene Chloride	Ave	0.8253	0.8811		10.7	10.0	6.8	30.0
tert-Butyl alcohol	Ave	1.929	1.977		10.2	10.0	2.5	30.0
Methyl tert-butyl ether	Ave	3.333	3.732		11.2	10.0	12.0	30.0
1,2-Dichloroethene, trans-	Ave	1.549	1.575		10.2	10.0	1.7	30.0
n-Hexane	Ave	1.468	1.528		10.4	10.0	4.1	30.0
1,1-Dichloroethane	Ave	1.891	1.910		10.1	10.0	1.0	30.0
1,2-Dichloroethene, cis-	Ave	1.303	1.380		10.6	10.0	5.9	30.0
Methyl Ethyl Ketone	Ave	0.5576	0.5758		10.3	10.0	3.3	30.0
Tetrahydrofuran	Ave	0.1689	0.1749		10.3	10.0	3.5	30.0
Chloroform	Ave	2.820	2.858		10.1	10.0	1.3	30.0
Cyclohexane	Ave	0.3406	0.3663		10.8	10.0	7.5	30.0
1,1,1-Trichloroethane	Ave	0.6766	0.7104		10.5	10.0	5.0	30.0
Carbon tetrachloride	Ave	0.7307	0.7722		10.6	10.0	5.7	30.0
2,2,4-Trimethylpentane	Ave	0.9132	1.001		11.0	10.0	9.7	30.0
Benzene	Ave	0.7411	0.7847		10.6	10.0	5.9	30.0
1,2-Dichloroethane	Ave	0.3676	0.3784		10.3	10.0	2.9	30.0
n-Heptane	Ave	0.2843	0.3072		10.8	10.0	8.0	30.0
Trichloroethene	Ave	0.3840	0.4069		10.6	10.0	5.9	30.0
1,2-Dichloropropane	Ave	0.2205	0.2385		10.8	10.0	8.2	30.0
Methyl methacrylate	Ave	0.2470	0.2696		10.9	10.0	9.2	30.0
1,4-Dioxane	Ave	0.1219	0.1343		11.0	10.0	10.2	30.0
Bromodichloromethane	Ave	0.6064	0.6603		10.9	10.0	8.9	30.0
1,3-Dichloropropene, cis-	Ave	0.3873	0.4474		11.5	10.0	15.5	30.0
Methyl isobutyl ketone	Ave	0.3662	0.4006		10.9	10.0	9.4	30.0
Toluene	Ave	0.6538	0.6974		10.7	10.0	6.7	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-20520-1
 SDG No.: 200-20520
 Lab Sample ID: CCVIS 200-67464/3 Calibration Date: 01/22/2014 12:55
 Instrument ID: CHW.i Calib Start Date: 12/12/2013 18:12
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 12/12/2013 23:57
 Lab File ID: wakv03.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropene, trans-	Ave	0.4254	0.4893		11.5	10.0	15.0	30.0
1,1,2-Trichloroethane	Ave	0.2964	0.3261		11.0	10.0	10.0	30.0
Tetrachloroethene	Ave	0.7533	0.8159		10.8	10.0	8.3	30.0
Dibromochloromethane	Ave	0.7797	0.8879		11.4	10.0	13.9	30.0
1,2-Dibromoethane	Ave	0.6221	0.6950		11.2	10.0	11.7	30.0
Chlorobenzene	Ave	1.001	1.069		10.7	10.0	6.8	30.0
Ethylbenzene	Ave	1.495	1.639		11.0	10.0	9.6	30.0
m-Xylene & p-Xylene	Ave	0.5882	0.6512		22.1	20.0	10.7	30.0
o-Xylene	Ave	0.5805	0.6608		11.4	10.0	13.8	30.0
Styrene	Ave	0.8448	0.9889		11.7	10.0	17.1	30.0
Bromoform	Ave	0.7636	0.9072		11.9	10.0	18.8	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7785	0.8666		11.1	10.0	11.3	30.0
4-Ethyltoluene	Ave	1.862	2.098		11.3	10.0	12.7	30.0
2-Chlorotoluene	Ave	1.566	1.698		10.8	10.0	8.4	30.0
1,3,5-Trimethylbenzene	Ave	1.707	1.857		10.9	10.0	8.8	30.0
1,2,4-Trimethylbenzene	Ave	1.645	1.765		10.7	10.0	7.2	30.0
1,3-Dichlorobenzene	Ave	1.109	1.185		10.7	10.0	6.8	30.0
1,4-Dichlorobenzene	Ave	1.062	1.141		10.7	10.0	7.5	30.0
1,2-Dichlorobenzene	Ave	1.085	1.147		10.6	10.0	5.7	30.0
1,2,4-Trichlorobenzene	Ave	0.5669	0.4885		8.62	10.0	-13.8	30.0
Hexachlorobutadiene	Ave	0.8601	0.8339		9.69	10.0	-3.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-20520-1
 SDG No.: 200-20520
 Lab Sample ID: CCVC 200-67464/27 Calibration Date: 01/23/2014 10:48
 Instrument ID: CHW.i Calib Start Date: 12/12/2013 18:12
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 12/12/2013 23:57
 Lab File ID: wakv27.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	3.843	4.198		10.9	10.0	9.2	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.572	3.903		10.9	10.0	9.3	30.0
Chloromethane	Ave	0.6564	0.7200		11.0	10.0	9.7	30.0
Vinyl chloride	Ave	0.8771	1.011		11.5	10.0	15.3	30.0
1,3-Butadiene	Ave	0.5445	0.6755		12.4	10.0	24.1	30.0
Bromomethane	Ave	0.9530	1.073		11.3	10.0	12.6	30.0
Chloroethane	Ave	0.4543	0.5738		12.6	10.0	26.3	30.0
Vinyl bromide	Ave	1.312	1.486		11.3	10.0	13.2	30.0
Trichlorofluoromethane	Ave	4.110	4.525		11.0	10.0	10.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	2.653	2.935		11.1	10.0	10.6	30.0
1,1-Dichloroethene	Ave	1.216	1.351		11.1	10.0	11.1	30.0
Acetone	Ave	1.394	1.716		12.3	10.0	23.1	30.0
Carbon disulfide	Ave	3.166	3.527		11.1	10.0	11.4	30.0
Isopropanol	Ave	0.9889	1.043		10.5	10.0	5.4	30.0
Allyl chloride	Ave	0.8611	0.9807		11.4	10.0	13.9	30.0
Methylene Chloride	Ave	0.8253	0.9471		11.5	10.0	14.8	30.0
tert-Butyl alcohol	Ave	1.929	2.040		10.6	10.0	5.7	30.0
Methyl tert-butyl ether	Ave	3.333	3.991		12.0	10.0	19.7	30.0
1,2-Dichloroethene, trans-	Ave	1.549	1.693		10.9	10.0	9.3	30.0
n-Hexane	Ave	1.468	1.623		11.1	10.0	10.6	30.0
1,1-Dichloroethane	Ave	1.891	2.058		10.9	10.0	8.9	30.0
1,2-Dichloroethene, cis-	Ave	1.303	1.481		11.4	10.0	13.6	30.0
Methyl Ethyl Ketone	Ave	0.5576	0.6114		11.0	10.0	9.6	30.0
Tetrahydrofuran	Ave	0.1689	0.1872		11.1	10.0	10.8	30.0
Chloroform	Ave	2.820	3.093		11.0	10.0	9.7	30.0
Cyclohexane	Ave	0.3406	0.3972		11.7	10.0	16.6	30.0
1,1,1-Trichloroethane	Ave	0.6766	0.7795		11.5	10.0	15.2	30.0
Carbon tetrachloride	Ave	0.7307	0.8487		11.6	10.0	16.1	30.0
2,2,4-Trimethylpentane	Ave	0.9132	1.061		11.6	10.0	16.1	30.0
Benzene	Ave	0.7411	0.8396		11.3	10.0	13.3	30.0
1,2-Dichloroethane	Ave	0.3676	0.4079		11.1	10.0	11.0	30.0
n-Heptane	Ave	0.2843	0.3283		11.5	10.0	15.5	30.0
Trichloroethene	Ave	0.3840	0.4426		11.5	10.0	15.3	30.0
1,2-Dichloropropane	Ave	0.2205	0.2526		11.5	10.0	14.5	30.0
Methyl methacrylate	Ave	0.2470	0.2871		11.6	10.0	16.3	30.0
1,4-Dioxane	Ave	0.1219	0.1354		11.1	10.0	11.1	30.0
Bromodichloromethane	Ave	0.6064	0.7191		11.9	10.0	18.6	30.0
1,3-Dichloropropene, cis-	Ave	0.3873	0.4706		12.1	10.0	21.5	30.0
Methyl isobutyl ketone	Ave	0.3662	0.4232		11.6	10.0	15.6	30.0
Toluene	Ave	0.6538	0.7257		11.1	10.0	11.0	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-20520-1
 SDG No.: 200-20520
 Lab Sample ID: CCVC 200-67464/27 Calibration Date: 01/23/2014 10:48
 Instrument ID: CHW.i Calib Start Date: 12/12/2013 18:12
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 12/12/2013 23:57
 Lab File ID: wakv27.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,3-Dichloropropene, trans-	Ave	0.4254	0.5214		12.3	10.0	22.6	30.0
1,1,2-Trichloroethane	Ave	0.2964	0.3434		11.6	10.0	15.9	30.0
Tetrachloroethene	Ave	0.7533	0.8730		11.6	10.0	15.9	30.0
Dibromochloromethane	Ave	0.7797	0.9505		12.2	10.0	21.9	30.0
1,2-Dibromoethane	Ave	0.6221	0.7312		11.8	10.0	17.5	30.0
Chlorobenzene	Ave	1.001	1.118		11.2	10.0	11.7	30.0
Ethylbenzene	Ave	1.495	1.708		11.4	10.0	14.3	30.0
m-Xylene & p-Xylene	Ave	0.5882	0.6750		22.9	20.0	14.7	30.0
o-Xylene	Ave	0.5805	0.6819		11.7	10.0	17.5	30.0
Styrene	Ave	0.8448	1.021		12.1	10.0	20.8	30.0
Bromoform	Ave	0.7636	0.9904		13.0	10.0	29.7	30.0
1,1,2,2-Tetrachloroethane	Ave	0.7785	0.9419		12.1	10.0	21.0	30.0
4-Ethyltoluene	Ave	1.862	2.265		12.2	10.0	21.6	30.0
2-Chlorotoluene	Ave	1.566	1.834		11.7	10.0	17.2	30.0
1,3,5-Trimethylbenzene	Ave	1.707	2.009		11.8	10.0	17.7	30.0
1,2,4-Trimethylbenzene	Ave	1.645	1.958		11.9	10.0	19.0	30.0
1,3-Dichlorobenzene	Ave	1.109	1.362		12.3	10.0	22.8	30.0
1,4-Dichlorobenzene	Ave	1.062	1.329		12.5	10.0	25.1	30.0
1,2-Dichlorobenzene	Ave	1.085	1.334		12.3	10.0	22.9	30.0
1,2,4-Trichlorobenzene	Ave	0.5669	0.7150		12.6	10.0	26.1	30.0
Hexachlorobutadiene	Ave	0.8601	1.045		12.2	10.0	21.5	30.0

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-20520-1
 SDG No.: 200-20520
 Client Sample ID: _____ Lab Sample ID: MB 200-67464/4
 Matrix: Air Lab File ID: wakv04.d
 Analysis Method: TO15LL/NJ Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 01/22/2014 13:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 67464 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.20	U	0.20	0.038
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.024
156-60-5	1,2-Dichloroethene, trans-	0.20	U	0.20	0.029
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.038
156-59-2	1,2-Dichloroethene, cis-	0.20	U	0.20	0.038
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.021
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.021
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.017
79-01-6	Trichloroethene	0.20	U	0.20	0.024
127-18-4	Tetrachloroethene	0.20	U	0.20	0.016

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-20520-1
 SDG No.: 200-20520
 Client Sample ID: _____ Lab Sample ID: LCS 200-67464/5
 Matrix: Air Lab File ID: wakv05.d
 Analysis Method: TO15LL/NJ Date Collected: _____
 Sample wt/vol: 200 (mL) Date Analyzed: 01/22/2014 14:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 67464 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	0.220		0.20	0.038
75-35-4	1,1-Dichloroethene	0.195	J	0.20	0.024
156-60-5	1,2-Dichloroethene, trans-	0.208		0.20	0.029
75-34-3	1,1-Dichloroethane	0.212		0.20	0.038
156-59-2	1,2-Dichloroethene, cis-	0.202		0.20	0.038
71-55-6	1,1,1-Trichloroethane	0.213		0.20	0.021
56-23-5	Carbon tetrachloride	0.202		0.20	0.021
107-06-2	1,2-Dichloroethane	0.206		0.20	0.017
79-01-6	Trichloroethene	0.214		0.20	0.024
127-18-4	Tetrachloroethene	0.218		0.20	0.016

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-20520-1

SDG No.: 200-20520

Instrument ID: CHW.i Start Date: 12/12/2013 15:40

Analysis Batch Number: 65930 End Date: 12/13/2013 04:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-65930/1		12/12/2013 15:40	1	wak001.d	RTX-624 0.32 (mm)
VIBLK 200-65930/2		12/12/2013 16:35	1		RTX-624 0.32 (mm)
VIBLK 200-65930/3		12/12/2013 17:24	1		RTX-624 0.32 (mm)
IC 200-65930/4		12/12/2013 18:12	1	wak004.d	RTX-624 0.32 (mm)
IC 200-65930/5		12/12/2013 19:03	1	wak005.d	RTX-624 0.32 (mm)
IC 200-65930/6		12/12/2013 19:52	1	wak006.d	RTX-624 0.32 (mm)
IC 200-65930/7		12/12/2013 20:40	1	wak007.d	RTX-624 0.32 (mm)
ICIS 200-65930/8		12/12/2013 21:29	1	wak008.d	RTX-624 0.32 (mm)
IC 200-65930/9		12/12/2013 22:18	1	wak009.d	RTX-624 0.32 (mm)
IC 200-65930/10		12/12/2013 23:07	1	wak010.d	RTX-624 0.32 (mm)
IC 200-65930/11		12/12/2013 23:57	1	wak011.d	RTX-624 0.32 (mm)
VIBLK 200-65930/12		12/13/2013 00:46	1		RTX-624 0.32 (mm)
VIBLK 200-65930/13		12/13/2013 01:36	1		RTX-624 0.32 (mm)
ICV 200-65930/14		12/13/2013 02:26	1	wak014.d	RTX-624 0.32 (mm)
ZZZZZ		12/13/2013 03:16	1		RTX-624 0.32 (mm)
VIBLK 200-65930/16		12/13/2013 04:06	1		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-20520-1

SDG No.: 200-20520

Instrument ID: CHW.i Start Date: 01/22/2014 10:56

Analysis Batch Number: 67464 End Date: 01/23/2014 10:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-67464/1		01/22/2014 10:56	1	wakv01.d	RTX-624 0.32 (mm)
CCV 200-67464/2		01/22/2014 11:41	1		RTX-624 0.32 (mm)
CCVIS 200-67464/3		01/22/2014 12:55	1	wakv03.d	RTX-624 0.32 (mm)
MB 200-67464/4		01/22/2014 13:59	1	wakv04.d	RTX-624 0.32 (mm)
LCS 200-67464/5		01/22/2014 14:47	1	wakv05.d	RTX-624 0.32 (mm)
LCS 200-67464/6		01/22/2014 15:37	1	wakv06.d	RTX-624 0.32 (mm)
LCS 200-67464/7		01/22/2014 16:26	1	wakv07.d	RTX-624 0.32 (mm)
ZZZZZ		01/22/2014 17:22	0.4		RTX-624 0.32 (mm)
ZZZZZ		01/22/2014 18:11	1		RTX-624 0.32 (mm)
ZZZZZ		01/22/2014 18:59	1		RTX-624 0.32 (mm)
ZZZZZ		01/22/2014 19:51	1		RTX-624 0.32 (mm)
ZZZZZ		01/22/2014 20:40	1		RTX-624 0.32 (mm)
200-20520-1	SG-011614-SGP-01	01/22/2014 21:29	10	wakv13.d	RTX-624 0.32 (mm)
200-20520-2	AA-011614-SGP-01	01/22/2014 22:19	10	wakv14.d	RTX-624 0.32 (mm)
ZZZZZ		01/22/2014 23:07	4		RTX-624 0.32 (mm)
ZZZZZ		01/22/2014 23:55	92.9		RTX-624 0.32 (mm)
ZZZZZ		01/23/2014 00:43	10		RTX-624 0.32 (mm)
ZZZZZ		01/23/2014 01:31	10		RTX-624 0.32 (mm)
ZZZZZ		01/23/2014 02:19	39.2		RTX-624 0.32 (mm)
ZZZZZ		01/23/2014 03:08	10		RTX-624 0.32 (mm)
ZZZZZ		01/23/2014 03:56	10		RTX-624 0.32 (mm)
ZZZZZ		01/23/2014 04:44	10.1		RTX-624 0.32 (mm)
ZZZZZ		01/23/2014 05:32	15.8		RTX-624 0.32 (mm)
VIBLK 200-67464/24		01/23/2014 06:23	1		RTX-624 0.32 (mm)
VIBLK 200-67464/25		01/23/2014 07:14	1		RTX-624 0.32 (mm)
ZZZZZ		01/23/2014 09:59	164		RTX-624 0.32 (mm)
CCVC 200-67464/27		01/23/2014 10:48	1	wakv27.d	RTX-624 0.32 (mm)

Post-Sampling Air Canister Pressure Check Record

Client ID	TALS Job	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst
E.I. Dupont	200-20520	1/17/14	1625	29.5	22	G9	VS
Sampling Information and Return Equipment Check					Yes	No	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?					✓		
(2) Is the flow controller ID used for each canister recorded?					✓		
(3) MA MCP: Check return flow rate for flow controllers						✓	
(4) Is visible sign of damage to canister and/or flow controller (FC) present?						✓	
If damage observed, list equipment IDs and describe condition:							
Post-Sampling Return Pressure Check							
Lab ID	Canister ID	Pressure ¹ ("Hg)	Anomaly ² (Y/N)	FC ID ³	FC Return (Y/N)	Can Cert Batch ID	Comments
200-20520-1	4840	-1.5	N	4675	Y	10753 WAKP	200 mL/min
2	4641	-1.8	✓	4626	✓	10753 WAKP	↓
VS 1/17/14							

¹ Criteria: Return Pressure should be between -1 and -10 ("Hg)

² If return pressure is not within criteria, initiate anomaly report.

Certificate of Analysis: Gene-Trac® VC, Vinyl Chloride Reductase (*vcrA*) Assay

Customer: Norma Eichlin, O'Brien & Gere

SiREM Reference: S-3083

Project: EISB

Report Date: 3-Feb-14

Customer Reference: 50-7882

Data Files: MyiQ-VC-QPCR-0617
VC-QPCR-check-gel-0630
MyiQ-DB-VC-QPCR-0342

Table 1: Test Results

Customer Sample ID	SiREM Sample ID	Sample Collection Date	Sample Matrix	Percent <i>vcrA</i> *	Vinyl Chloride Reductase (<i>vcrA</i>) Gene Copies/Liter
GW-011314-IW02-UPPER	VCR-4438	13-Jan-14	Groundwater	0.0008 - 0.002 %	1 x 10 ⁴
GW-011414-IW02-LOWER	VCR-4439	14-Jan-14	Groundwater	0.002 - 0.005 %	1 x 10 ⁵
GW-011414-ML02-3	VCR-4440	14-Jan-14	Groundwater	0.04 - 0.1 %	7 x 10 ⁷
GW-011514-ML02-3	VCR-4441	15-Jan-14	Groundwater	0.06 - 0.2 %	7 x 10 ⁶
GW-011414-EW01-LOWER	VCR-4442	14-Jan-14	Groundwater	0.001 - 0.003 %	8 x 10 ⁵
GW-011414-ML02-3-D	VCR-4443	14-Jan-14	Groundwater	0.2 - 0.6 %	8 x 10 ⁷

Notes:

* Percent *vcrA* in microbial population. This value is calculated by dividing the number of vinyl chloride reductase A (*vcrA*) gene copies quantified by the total number of bacteria estimated to be in the sample based on the mass of DNA extracted from the sample. Range represents normal variation in enumeration of *vcrA*.

J The associated value is an estimated quantity between the method detection limit and quantitation limit.

U Not detected, associated value is the quantification limit.

B Analyte was also detected in the method blank.

NA Not applicable as *vcrA* not detected and/or quantifiable DNA not extracted from the sample.

I Sample inhibited the test reaction based on inability to PCR amplify extracted DNA with universal primers.

C Correction factor applied to correct for non-specific PCR amplification products, value is an estimated quantity.

Analyst:



Jennifer Wilkinson
Senior Laboratory Technician

Approved:



Ximena Druar, B.Sc.
Genetic Testing Coordinator

Table 2.1: Detailed Test Parameters, Gene-Trac Test Reference S-3083

Customer Sample ID	GW-011314-IW02-UPPER	GW-011414-IW02-LOWER	GW-011414-ML02-3
SiREM <i>vcrA</i> Sample ID	VCR-4438	VCR-4439	VCR-4440
Date Received	27-Jan-14	27-Jan-14	27-Jan-14
Sample Temperature	6 °C	6 °C	6 °C
Filtration Date	27-Jan-14	27-Jan-14	27-Jan-14
Volume Used for DNA Extraction	100 mL	100 mL	400 mL
DNA Extraction Date	28-Jan-14	28-Jan-14	28-Jan-14
DNA Concentration in Sample (extractable)	3353 ng/L	10886 ng/L	321525 ng/L
PCR Amplifiable DNA	Detected	Detected	Detected
<i>vcrA</i> qPCR Date Analyzed	30-Jan-14	30-Jan-14	30-Jan-14
Laboratory Controls (see Table 3)	Passed	Passed	Passed
Comments	--	--	--

Notes:

Refer to Table 3 for detailed results of controls. PCR = polymerase chain reaction
 °C = degrees Celsius qPCR = quantitative PCR
 DNA = Deoxyribonucleic acid *vcrA* = vinyl chloride reductase

ng/L = nanograms per liter
 mL = milliliters

Table 2.2: Detailed Test Parameters, Gene-Trac Test Reference S-3083

Customer Sample ID	GW-011514-ML02-3	GW-011414-EW01-LOWER	GW-011414-ML02-3-D
SiREM <i>vcrA</i> Sample ID	VCR-4441	VCR-4442	VCR-4443
Date Received	27-Jan-14	27-Jan-14	27-Jan-14
Sample Temperature	6 °C	6 °C	6 °C
Filtration Date	27-Jan-14	27-Jan-14	27-Jan-14
Volume Used for DNA Extraction	400 mL	100 mL	500 mL
DNA Extraction Date	28-Jan-14	28-Jan-14	28-Jan-14
DNA Concentration in Sample (extractable)	23535 ng/L	163950 ng/L	72600 ng/L
PCR Amplifiable DNA	Detected	Detected	Detected
<i>vcrA</i> qPCR Date Analyzed	30-Jan-14	30-Jan-14	30-Jan-14
Laboratory Controls (see Table 3)	Passed	Passed	Passed
Comments	--	--	--

Notes:

Refer to Table 3 for detailed results of controls. PCR = polymerase chain reaction
 °C = degrees Celsius qPCR = quantitative PCR
 DNA = Deoxyribonucleic acid *vcrA* = vinyl chloride reductase

ng/L = nanograms per liter
 mL = milliliters

Table 3: Gene-Trac VC Control Results, Test Reference S-3083

Laboratory Control	Analysis Date	Control Description	Spiked <i>vcrA</i> reductase Gene Copies per Liter	Recovered <i>vcrA</i> reductase Gene Copies per Liter	Comments
Positive Control Low Concentration	30-Jan-14	qPCR with KB1 genomic DNA (CSLV-0485)	7.5×10^4	6.0×10^4	--
Positive Control High Concentration	30-Jan-14	qPCR with KB1 genomic DNA (CSHV-0485)	1.2×10^7	9.0×10^6	--
DNA Extraction Blank	30-Jan-14	DNA extraction sterile water (FB-2111)	0	2.6×10^3 U	--
Negative Control	30-Jan-14	Tris Reagent Blank (TBV-0456)	0	2.6×10^3 U	--

Notes:

DNA = Deoxyribonucleic acid

qPCR = quantitative PCR

16S rRNA = 16S ribosomal ribonucleic acid

U Not detected, associated value is the quantification limit.

vcrA = vinyl chloride reductase



Chain-of-Custody Form

siremlab.com

130 Research Lane, Ste 2
Guelph ON, Canada N1G 5G3
(519) 822-2265

Lab #
S-3083

Project Name EISB		Project # 50-7882		Preservative Analysis													
Project Manager Norma Eichlin				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); border: 1px solid black; padding: 5px;">Gene-Trac (UCRA)</div> <div style="text-align: right;"> Preservative Key ICE 0. None 1. HCL 2. Other _____ 3. Other _____ 4. Other _____ 5. Other _____ 6. Other _____ </div> </div>													
Email norma.eichlin@obg.com																	
Company DuPont																	
Address 2000 Camonball Rd.																	
Pompton Lakes New Jersey US 07416																	
Phone # 973-492-7703		Fax # 973-492-7749															
Sampler's Signature George Nemeth		Sampler's Printed Name George Nemeth															
Client Sample ID	Lab ID	Sampling		Matrix	# of Containers	Other Information											
		Date	Time														
- GW-011314-IW02-UPPER		1/13/14	1228	GW	1	X											
- GW-011414-IW02-LOWER		1/14/14	1003	GW	1	X											
- GW-011414-MLO2-3		1/14/14	1455	GW	1	X											
GW-011514-MLO4-3		1/15/14	1615	GW	1	X											
- GW-011414-EW01-LOWER		1/14/14	1234	GW	1	X											
GW-011414-MLO2-3-D		1/14/14	1455	GW	1	X											
W-011314-MLO4-1-FB		1/13/14	1110	W	1	X											
W-011414-MLO2-5-FB		1/14/14	1510	W	1	X											
W-011514-MLO4-3-FB		1/15/14		W	1	X											

Cooler Condition: Sample Receipt Good		P.O. # 50-7882		For Lab Use Only											
Cooler Temperature:		Bill To: E.I. DuPont													
Custody Seals: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>															

Relinquished By	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: George Nemeth	Signature: J. Wilkinson	Signature:	Signature:	Signature:	Signature:
Printed Name: George Nemeth	Printed Name: J. Wilkinson	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: DuPont	Firm: SiREM	Firm:	Firm:	Firm:	Firm:
Date/Time: 1/21/2014 @	Date/Time: 1/27/14 1545	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Return to Originator; Yellow - Lab Copy; Pink - Retained by Client

In the absence of an executed agreement, submission of samples to SiREM implies consent for performance of analyses specified on this Chain-of-Custody form and agreement with the terms and conditions of the SiREM Laboratory Services Agreement. The entity submitting samples shall be responsible for payment in full for said analyses.