2009 Annual Performance Monitoring Report Essex/Hope Site Jamestown, New York

March 2010 - Final

Prepared for:
Essex Specialty Products, Inc.
Auburn Hills, Michigan

URS Project No. 41568652

2009 ANNUAL
PERFORMANCE MONITORING REPORT

Essex/Hope Site
Jamestown, New York

Prepared for:
Essex Specialty Products, Inc.
Auburn Hills, Michigan

Prepared by:

Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

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1.0 Introduction

On behalf of Essex Specialty Products, Inc. (ESP), URS has prepared this Annual Performance Monitoring Report for the Essex/Hope Site in Jamestown, New York (NO.9-07-015) as required by the Performance Monitoring Plan (PMP) prepared by Radian International in June 1997, and most recently revised by URS Corp. in February, 2008. This report summarizes the operations and performance monitoring of the site remedial systems for the calendar year of 2009. A site location map is provided as Figure 1.

Section 2.0 of the report summarizes groundwater flow conditions under pumping influence, Section 3.0 summarizes groundwater quality, and Section 4.0 discusses future plans.

1.1 Remedial Systems Overview

There are three separate areas that are the focus of remedial efforts including the North Parking Lot (NPL) Area, the former Underground Storage Tanks (UST) Area, and the former Aboveground Storage Tank/Underground Storage Tank (AST/UST) Area. These areas and the site monitoring points are illustrated on Figure 2.

The remedial systems at the Essex/Hope Site were designed and constructed to address impacted groundwater and soils identified at the three areas of the site (NPL, AST/UST, and UST Areas). Remediation of groundwater and soils at the Essex/Hope Site is performed by a combination of soil vapor extraction, air sparging, and a groundwater extraction and treatment systems. The original remedial action design and implementation was based upon the March 1994 Record of Decision (ROD) issued by the New York State Department of Environmental Conservation (NYSDEC) and included:

- A groundwater remediation system consisting of an extraction well network of five (5) shallow and two (2) deep recovery wells and activated carbon pre-treatment with onsite discharge to the local POTW;
- Soil remediation in the AST/UST and UST Areas by soil vapor extraction (SVE) for volatile organic constituents occurring above the shallow water table.
- Soil excavation in the NPL Area, conducted in September and October of 1996, to remove impacted soils in the former sump and surrounding areas.
- Air sparging in the shallow water-bearing zone of the NPL, UST and AST/UST Areas to supplement the treatment of impacted groundwater via enhanced biodegradation and volatilization of organic constituents. A soil vapor extraction system was added to the NPL Area to collect volatile organic constituents (VOCs) volatilized from the shallow groundwater in this area.
- The remedial areas were capped with either asphalt or concrete to enhance surface water runoff and minimize infiltration.

- A network of monitoring wells across the site (as designated in the Performance Monitoring Plan) is used to measure the effectiveness of the groundwater remedial activities.

1.2 Supplemental Remedial Activities

Voluntary supplemental remedial activities were initiated in 2000, with the approval of the NYSDEC, to refine the understanding of the extent of site related subsurface constituents and to evaluate potential remedial alternatives to enhance remedial effectiveness at the site. Evaluation of those studies continued during 2001 and 2002, and measures to remove residual VOCs in the UST Area were implemented between 2001 and 2003. The results of the additional studies and UST Area work are reported under separate cover. A summary of the additional activities performed at the Site after the initial remedial actions is as follows:

- A pilot scale zero-valent iron permeable reactive barrier (PRB) was injected around recovery well RW-2D and within the lower semi-confined water-bearing zone beneath Building 5 in July 2000. The pilot PRB is designed to evaluate the effectiveness of this technology to reduce and control the migration of dissolved VOC constituents from the site. As part of this evaluation, additional groundwater piezometers were installed in the upper unconfined water-bearing zone and lower semi-confined water-bearing zone for performance monitoring of the pilot PRB. Collection of pilot test data was completed in July 2001, and further evaluation based upon site performance monitoring data was completed in December 2002. Data concerning this pilot test was submitted to the NYSDEC as the Interim Results, PRB Pilot Results for First Four Sample Rounds (URS, February 2001). A final pilot test report detailing results through December 2002 was submitted to NYSDEC in July 2003.
- The former underground storage tanks (USTs) in the UST Area were uncovered in August 2000 and evaluated as a potential ongoing source of VOCs in this area. Additional test borings and groundwater piezometers were installed within the upper shallow semi-confined water-bearing zones in this area to evaluate groundwater and soil chemical conditions, and to refine groundwater flow direction and constituent migration. Results of these activities were reported in the Plant #5 East Area and UST Area Investigations Report (URS, March 2001).
- As part of the UST Area investigation, the area east of Building 5 was evaluated at the request of the NYSDEC to determine the source of vinyl chloride within the lower semi-confined water-bearing zone at Monitoring Well MW-19D, located on the Site's eastern property line. A network of test borings and deep piezometers were installed within the UST Area and on the offsite property to the east for evaluation of chemical conditions within the soil and groundwater. Results of these activities were reported in the Plant #5 East Area and UST Area Investigations Report (URS, March 2001).
- The former USTs (Tanks 1 through 4) in the UST Area were uncovered during 2001 and cleaned-out to remove residual liquids from the tanks. Openings were cut in each tank and the fluid contents removed, and each tank was rinsed with potable water. Following rinsing, the tanks were treated using the Biox® Process to remove residual organic constituents in the tanks by chemical oxidation and biodegradation. Results of the tank

cleaning were submitted to the NYSDEC in the Tank Closure Work Plan (URS, September 2001).

- Based upon the results of the Biox solution treatment of the USTs, where VOCs were not reduced below the "clean closure" standard of 5 µg/L within Tanks T-1, T-3 and T-4 as required by the NYSDEC, a UST removal program was initiated by Essex Specialty Products. All five (5) of the former USTs in the UST Area, and over 1000 tons of soil were removed between the period of November 2002 and January 2003. Results of this activity have been submitted to the NYSDEC in the UST Removal Interim Report (URS, February 2003).

- A site investigation was completed in October 2003 to further define conditions in the UST Area and the vinyl chloride groundwater plume on the east side of the former Plant No. 5 building. This investigation was completed to provide data to address potential additional measures for the site cleanup. These potential measures focus on insitu methods especially those that are able to treat both the UST Area contaminants (toluene, ethylbenzene, xylenes) and the vinyl chloride plume. Results of the investigation are reported under separate cover. The new monitoring wells installed as part of these investigations, MW's: 21D, 22D, 23S, 23D and 24S, are shown on Figure 2. Of these wells, MW-21D and MW-22D were added to the Performance Monitoring Plan (PMP) as directed by the NYSDEC. The results of this investigation have been submitted to the NYSDEC in the UST Area and Groundwater Vinyl Chloride Investigations Report (URS, June 2004).

- Supplemental site investigations were performed from November, 2005 through June, 2006 for the UST Area and the offsite groundwater zones. The objectives of the investigations were as follows:

  - *Determine the extent of the residual VOC contamination in the UST Area shallow soils and groundwater.* The most recent investigations (2003) found VOCs in shallow groundwater approximately 30 feet south of the former USTs. Additional investigations were necessary to further delineate the extent of the VOCs to the south and east, and offsite, if necessary.

  - *Determine the extent of the VOC contamination in shallow groundwater in the vicinity of Monitoring Well 14S***.** Performance monitoring has indicated that shallow groundwater VOCs have persisted at elevated levels (> 1ppm) in monitoring well 14S, north of the NPL Area and offsite, north of Hopkins Avenue. Previous investigations (June, 2004 report) indicated that MW-14S had a TCE level of 2700 ppb, which was the highest TCE detected in the shallow water-bearing zone. This TCE level was one to two orders of magnitude higher than the TCE levels in shallow zone recovery wells, RW-1S and RW-2S, respectively. Additional investigations were needed in the area around MW-14S to determine the extent of the elevated TCE, and the potential for offsite sources of VOCs.

  - *Determine the extent of the VOCs in deep groundwater in the offsite area northeast and east of CPM Plant No. 5.* The latest offsite groundwater investigations (2003) found VOCs in deep groundwater to the northeast (MW-22D) of the site, approximately 50 ft beyond the property boundary. This area is in the downgradient groundwater direction (under non-pumping conditions), and the VOCs are expected to be residual

contamination from migration of the historic plume. Additional investigations were necessary to determine the extent of the offsite deep groundwater VOC plume. The investigations included discrete sampling of the shallow and deep groundwater zones using the direct-push drilling equipment and residential vapor sampling by shallow probes installed near occupied buildings above the shallow VOC plume locations. The results of these investigations were summarized in a separate report submitted to NYDEC in December 2006.

- *Phase I of the Supplemental Remedial Actions* was initiated in November of 2007. These included a new recovery well, RW-6D and monitoring wells, MW-25S and MW-25D to the north of the site along Hopkins Avenue. Residential vapor sampling was also performed at 159 Hopkins Avenue.

- Recovery Well RW-6D installation was completed in the second half of 2008 and placed on-line in September 2008. *Phase II Supplemental Remedial Activities* commenced in November 2008 with the installation of a residential vapor mitigation system at 159 Hopkins Avenue. Additional remedial actions (Phase II) are being planned for 2010 to focus on off-site groundwater VOCs.

- At this time, lab treatability studies are being performed to evaluate the feasibility of insitu chemical oxidation for treatment of VOCs in the UST area. If feasible, full-scale implementation is expected to occur in 2010.

1.3 Major System Modifications

Major modifications to the original remedial systems configuration since startup in 1997 have included the following:

- Groundwater extraction from Recovery Well RW-1D, screened across the deep water-bearing zone in the NPL Area, was discontinued in June 1999 with the approval of the NYSDEC. As reported in the 1999 Annual Performance Monitoring Report (Radian International, April 1999), a pumping evaluation completed in the first half of 1999 revealed that vertical leakage was occurring from the shallow water-bearing zone to the deep water-bearing zone due to pumping from the deep zone. Based upon this information, and the fact that the majority of the groundwater constituents are recovered from RW-2D, NYSDEC recommended that RW-1D be shut down as documented in the June 17, 1999 correspondence from the NYSDEC to Radian International.
- The air sparging system in the NPL Area was shut down in July 2000, with the approval of the NYSDEC, to prevent the oxidation of the newly installed Pilot Permeable Reactive Barrier (PRB) and zero-valent iron injections in that area. The soil vapor extraction system has continued to be operated in this area as needed to collect potential gases produced by subsurface reactions associated with the Pilot PRB and zero-valent iron injections in that area.
- Air sparging in the UST Area was discontinued in October 2000 after mechanical failure of the air sparge pump. Since the combined soil vapor extraction/air sparging system had reached its practical remedial effectiveness, Essex Specialty Products initiated activities to evaluate conditions in this area in 2000 and implement supplemental remedial activities to replace the original system, with the approval of the NYSDEC.

These supplemental remedial activities include the *insitu* cleaning of the former USTs completed in December 2001 and February 2003, and the UST removals completed between November 2002 and January 2003.

- The soil vapor extraction system and groundwater recovery system (Recovery Wells RW-4S and RW-5S) in the UST Area were shut down in November 2002 for the UST removal activities. Excavation work resulted in complete removal of the electrical system for the UST Area, Recovery Well RW-4S, and underground piping to the soil vapor extraction/air sparging wells and existing Recovery Well RW-5S. These systems are currently shut down. There are no plans at this time to redesign or reconstruct the UST Area remediation system.
- The AST/UST Area system was shut down since August of 2006 and remains offline pending supplemental remedial action in the AST/UST and UST areas and eventual permanent disconnection. The SVE System in the NPL Area was operated on a voluntary basis as an additional safeguard against potential vapor release. However, the system was shut down in November 2007 following review of air stream sample analyses that indicated this area poses no potential hazard associated with vapor release.
- Future system modifications are anticipated as a result of the findings of the 2005-2006 UST Area and Offsite Groundwater Investigations. One recovery well (RW-6D) was installed in November 2007 in the deep groundwater zone VOC plume offsite to the north. RW-6D was placed on-line in September, 2008. VOCs in the UST Area shallow groundwater and other offsite shallow and deep groundwater zones are currently being evaluated for insitu treatment technologies.

1.4 Performance Criteria

The performance criteria to evaluate remediation effectiveness are the Remedial Action Objectives (RAOs) included as Appendix A in the March 1994 Record of Decision (ROD) for the site. Table 1 summarizes the RAOs for the site. Performance monitoring completed during the 2009 calendar year consisted of monthly groundwater pre-treatment system influent and effluent analysis, semi-annual recovery well groundwater analysis, and annual groundwater sampling of the monitoring wells selected as performance monitoring points. No soil sampling was completed during 2009.

2.0 Groundwater Flow Evaluation

This section presents a summary of the 2009 groundwater flow conditions based on quarterly measurements as well as an annual evaluation of the extraction system. The annual evaluation reviews each extraction well's pumping rates, the amount of pore volume exchanged in each remedial area and groundwater flow conditions over the course of the extraction period.

The site groundwater has been identified as two (2) zones for descriptive purposes. These are the shallow water-bearing (shallow) and the lower fine-sand water bearing zone (LFSWBS or deep). Detailed descriptions of these geologic zones are found in other site reports.

Water level measurements were obtained periodically during system operation and are provided in Appendix A. Groundwater contour maps representative of pumping conditions during the reporting period are provided as Figures 3 through 8 for the shallow and deep water-bearing zones.

2.1 Groundwater Extraction System Operation and Maintenance

The groundwater extraction system was operated continuously throughout the reporting period with the exception of system shutdowns and routine maintenance as summarized below:

- Recovery Wells were offline between January 21, 2009 and January 22, 2009 for carbon changeout.
- Recovery Wells were offline between May 18, 2009 and May 20, 2009 for carbon changeout.
- Recovery Wells were offline periodically between July 13, 2009 and July 22, 2009 for well development activities and RW-2D acid treatment.
- Recovery Wells were shut down between September 29, 2009 and November 3, 2009 and between November 30, 2009 and December 21, 2009 for system pump repairs.
- Recovery Well RW-6D experienced various periods of shutdown due to silt accumulation in the well.

2.2 Annual Groundwater Extraction

Groundwater pumping volumes are provided in Table 2. The low volumes extracted in the fourth quarter are a result of the extended periods of system shutdown when the GAC pump experienced leaks in the motor seals and was sent offsite for repairs. In 2009, approximately 1.36 million gallons of groundwater were extracted and treated by the recovery system. Approximately 945,696 gallons of groundwater were extracted from the deep groundwater zone

(LFSWBZ) and approximately 417,457 gallons of groundwater were extracted from the shallow water-bearing zone. Groundwater extraction from each treatment area is discussed below.

Recovery wells RW-1S and RW-2S extract groundwater from the shallow zone in the NPL Area. A combined total of approximately 411,977 gallons of groundwater were extracted from this zone during 2009. The average steady state groundwater extraction rate from the NPL Area shallow zone by quarter is as follows:

- 1st Quarter: 1.36 gpm
- 2nd Quarter: 0.88 gpm
- 3rd Quarter: 1.16 gpm
- 4th Quarter: 1.40 gpm

In the AST/UST area, approximately 5,480 gallons of groundwater were extracted from Recovery Well RW-3S during 2009. The average steady state groundwater extraction rate from the AST/UST Area shallow zone by quarter is as follows:

- 1st Quarter: 0.031 gpm
- 2nd Quarter: 0.010 gpm
- 3rd Quarter: 0.004 gpm
- 4th Quarter: 0.001 gpm

A total of approximately 945,696 gallons of groundwater were extracted from the deep zone from RW-2D and RW-6D during 2009. The average steady state groundwater extraction rate from deep zone by quarter is as follows:

- 1st Quarter: 2.56 gpm
- 2nd Quarter: 2.75 gpm
- 3rd Quarter: 3.03 gpm
- 4th Quarter: 2.39 gpm

2.3 Groundwater Flow Conditions

Groundwater flow conditions in the shallow and deep water-bearing zones at the site for 2009 were a typical reflection of normal site operations. The natural (non-pumping) shallow groundwater flow direction is toward the northeast in the NPL and AST/UST Areas. Groundwater flow conditions were uniform within the NPL Area during 2009 under pumping conditions. The natural groundwater flow direction of the deep zone under non-pumping conditions is toward the northeast across the site. Groundwater contour maps representing pumping conditions within the shallow and deep zones are provided as Figures 3 through 8. Pumping conditions in each groundwater zone are remained consistent with conditions experienced during previous years.

3.0 Water Quality Results and Summary

Groundwater sampling during 2009 represented the 12th full year of operation of the remedial systems. Groundwater sampling for 2009 consisted of the following:

- Semi-Annual Recovery Well Sampling for VOCs
- Annual Sampling of the Performance Monitoring Plan (PMP) well network for VOCs (conducted in October 2009)
- Monthly influent and effluent sampling of the wastewater pre-treatment system in support of POTW permit requirements.

Table 3 summarizes the semi-annual recovery well analytical data for 2009. The annual performance monitoring well data is provided in Table 4. Tables 5 through 7 represent the wastewater influent, treatment and effluent sample data for 2009. Recovery Well performance data is illustrated in Appendix A-3. Laboratory Certificates of Analysis are included in Appendix B. The following sections describe the conditions occurring in each of the three remedial areas, with a comparison to previous analytical results.

3.1 North Parking Lot (NPL)/Northeast Site Area

Both the shallow water-bearing zone and the deeper lower fine sand water-bearing zone are monitored in this area. The shallow monitoring system for area consists of Recovery Wells RW-1S and RW-2S, as well as monitoring wells MW-6, MW-7S, MW-14S, MW-15S, and MW-25S. RW-1S and RW-2S removed 0.84 lbs of VOCs from this zone in Year 2009. The deep water-bearing zone monitoring network consists of Recovery Wells RW-2D and RW-6D, and Monitoring Wells MW-7D, MW-8, MW-14D, MW-15D, MW-21D, MW-22D, MW-25D, and VP-6D. Recovery wells RW-2D and RW-6D demonstrated continued efficiency by removing nearly 150 lbs of VOCs from the deep groundwater zone.

3.2 AST/UST Area

The AST/UST Area shallow groundwater is monitored by Recovery Well RW-3S and Monitoring Well MW-2. Recovery Well RW-3 removed approximately 0.005 lbs of VOCs in 2009. There were no VOCs detected in MW-2.

3.3 UST Area

This area is currently monitored by MW-20. Prior to UST removal activities in 2002, RW-4S and RW-5S were effective in removing approximately 110 lbs of VOCs from the groundwater since system startup. As previously mentioned, these RWs are no longer in service.

3.4 Groundwater Treatment System

The site groundwater treatment system consists of a 2,200 gallon equalization tank, transfer pump, sediment filters, and two (2) 900 lb granular carbon treatment vessels arranged in series. A third carbon treatment vessel is retained as a spare for carbon change-outs. The groundwater pumped from the recovery wells is discharged to the equalization tank, and pumped through the carbon vessels for pre-treatment prior to discharge to the City of Jamestown Publicly Owned Treatment Works (POTW) for final treatment.

Pursuant to the City of Jamestown Board of Public Utilities (BPU) Industrial Wastewater Discharge Permit Number 26 (Permit), the pre-treatment system is monitored for pH and VOCs to ensure compliance with the discharge requirements. Sampling points include the influent, primary carbon effluent and secondary carbon effluent (discharge to POTW). These points are sampled on a monthly basis and reported to the Jamestown BPU on a semi-annual basis.

Groundwater pre-treatment system data for 2009 is summarized in Tables 5 through 7. These tables represent system influent, individual carbon vessel effluent and post carbon (system discharge to POTW) concentrations. Note that after June 2003, only two carbon vessels were used for treatment of groundwater prior to discharge to the POTW. The third carbon vessel was removed from the treatment system after the UST removal activities were complete. Pre-Carbon influent concentrations reflect a composite from all of the operating groundwater extraction wells prior to pre-treatment.

4.0 Future Plans

Operation, maintenance and monitoring of the remedial systems will continue in Year 2010. Phase II of the Supplemental Remedial Actions will continue with concentration on the off-site groundwater plumes primarily in the UST Area. This phase will include the exploration of alternative methods to accelerate site cleanup.

TABLES

Table 1

Soil and Groundwater Remedial Action Objectives (RAOs)
Essex/Hope Site
Jamestown, New York

MEDIA	PARAMETER	RAO
Soil	Total Volatile Organics Compounds (VOCs)	10 ppm
	Each individual VOC	1 ppm
	Total Semi-Volatile Organic Compounds (SVOCs)	500 ppm
	Each Individual SVOC	50 ppm
	Polychlorinated Biphenyls (PCBs)	10 ppm
Groundwater[(1)]	Trans-1,2-Dichloroethylene	5 ppb
	Trichloroethene (trichloroethylene)	5 ppb
	Vinyl Chloride	5 ppb
	Ethylbenzene	5 ppb
	Toluene	5 ppb
	Xylene	5 ppb
	PCBs	0.1 ppb

(1) = Other compounds, not listed, would have RAOs in compliance with NYSDEC Ambient Groundwater Quality Standards.
ppm = part per million
ppb = part per billion

Table 2

2009 Groundwater Extraction Summary
Essex/Hope Site
Jamestown, NY

Period	Recovery Well				
	RW-1S Gallons Pumped	RW-2S Gallons Pumped	RW-3S Gallons Pumped	RW-2D Gallons Pumped	RW-6D Gallons Pumped
1st Quarter	15,010	123,137	4,393	298,373	0
2nd Quarter	13,271	88,530	797	194,155	14,052
3rd Quarter	17,485	135,840	289	303,633	95,566
4th Quarter	150	18,553	2	30,993	8,925
Total	**45,916**	**366,060**	**5,480**	**827,153**	**118,542**

Period	Site Area		
	NPLS Shallow Area Gallons Pumped	AST Area Gallons Pumped	Lower Fine Sand Water Bearing Zone Gallons Pumped
1st Quarter	138,146	4,393	298,373
2nd Quarter	101,801	797	208,207
3rd Quarter	153,325	289	399,198
4th Quarter	18,704	2	39,917
Total	**411,977**	**5,480**	**945,696**

Period	Total Estimated Gallons Pumped - All Areas
1st Quarter	440,912
2nd Quarter	310,805
3rd Quarter	552,812
4th Quarter	58,623
Total	**1,363,152**

Table 3

2009 Semi-Annual Recovery Well Analytical Results (µg/L)
Essex/Hope Site
Jamestown, NY

March 31, 2009

Volatile Organic Compounds	Site GW RAOs	RW-1S	RW-2S	RW-2D	RW-6D*	RW-3S
Acetone		ND	ND	ND	**60.8**	ND
Benzene		**1.0**	ND	**9.6**	**62.8**	**34.0**
2-Butanone		ND	ND	ND	ND	ND
Carbon Disulfide		ND	ND	ND	ND	ND
Chloromethane		ND	ND	**7.3**	ND	ND
Isopropylbenzene (Cumene)		ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	**29.8**	**60.5**	ND
cis-1,2-Dichloroethene		**790**	**8.2**	**5,830**	**7,170**	ND
trans-1,2-Dichloroethene	**5**	**5.2**	ND	**57.7**	**87.9**	ND
Ethylbenzene	**5**	ND	ND	ND	ND	**7.8**
4-Methyl-2-pentanone		ND	ND	ND	ND	ND
Methylene Chloride		ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	ND	ND
Toluene	**5**	ND	ND	ND	ND	ND
Trichloroethene	**5**	**1,330**	**7.8**	**2,910**	**8,360**	ND
Vinyl Chloride	**5**	**36.2**	ND	**929**	**1,010**	ND
Xylenes (total)	**5**	ND	ND	ND	ND	ND

* RW-6D sample was collected on April 29, 2009.

September 30, 2009

Volatile Organic Compounds	Site GW RAOs	RW-1S	RW-2S	RW-2D	RW-6D	RW-3S
Acetone		ND	ND	ND	**16,000**	ND
Benzene		ND	ND	**9.5**	**99.2**	**48.1**
2-Butanone		ND	ND	ND	**92.5**	ND
Carbon Disulfide		ND	ND	ND	ND	ND
Chloroform		ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)		ND	ND	ND	ND	ND
1,1-Dichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	**35.3**	**59.7**	ND
cis-1,2-Dichloroethene		**126**	**60.3**	**11,200**	**15,900**	**218**
trans-1,2-Dichloroethene	**5**	ND	ND	**114**	**185**	ND
Ethylbenzene	**5**	ND	ND	ND	ND	ND
4-Methyl-2-pentanone		ND	ND	ND	ND	ND
Methylene Chloride		ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	ND	ND
Toluene	**5**	ND	ND	ND	ND	ND
Trichloroethene	**5**	**153**	**33.4**	**1,160**	**16,700**	**540**
Vinyl Chloride	**5**	**1.4**	ND	**2,030**	**2,030**	**6.9**
Xylenes (total)	**5**	ND	ND	ND	ND	ND

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives

µg/l = Micrograms per liter

NA = Not Analyzed

ND = Not Detected/Below minimum laboratory reporting limit

Table 4

2009 Annual PMP Wells Analytical Results (µg/L)
Essex/Hope Site
Jamestown, NY

Volatile Organic Compounds	MW-2	MW-6	MW-7D	MW-7S	MW-8	MW-14D	MW-14S	MW-15D	MW-15S	MW-20	MW-21D	MW-22D	MW-25D	MW-25S	VP-6D
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	ND	ND	**13.3**	ND	ND	ND	ND	**1.6**	ND	ND	**223**	**6.1**	ND	ND	ND
Chloromethane	ND	ND	**8.6**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**20.5**	ND	ND	ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	**27.5**	ND	ND	ND	ND	**105**	ND	ND	**631**	**12.7**	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	**6,150**	**12.1**	**94.1**	ND	**71.4**	**16,000**	**6.5**	ND	**183,000**	**1,220**	ND	**6.1**	ND
trans-1,2-Dichloroethene	ND	ND	**124**	ND	ND	ND	ND	**261**	ND	ND	**2,780**	**32.0**	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**7.4**	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**39.1**	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	**6.5**	**8.0**	**11.3**	ND	ND	**39.8**	**9,810**	**15.8**	ND	**138,000**	**7,410**	ND	**68.9**	ND
Vinyl Chloride	ND	ND	**634**	ND	**23.8**	**5.5**	**5.2**	**692**	ND	ND	**9,540**	**61.4**	ND	ND	ND
Xylenes (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	**37.5**	ND	ND	ND	ND	ND

ND = Not detected
µg/L = Micrograms per liter

Table 5
POTW Monthly Monitoring Summary
2009 System Pre-Carbon
Volatile Organic Compounds (µg/L)

Sample Date	30-Jan-09	27-Feb-09	20-Mar-09	15-Apr-09	26-May-09	30-Jun-09	22-Jul-09	31-Aug-09			30-Nov-09	22-Dec-09
Acetone	ND	ND	ND	ND	ND	ND	**408**	**422**			**855**	ND
Benzene	**7.9**	**5.1**	**4.9**	**5.0**	**7.7**	**6.3**	**22.1**	**12.4**			**25.5**	**3.9**
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND			**24.0**	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
1,1-Dichloroethene	**15.8**	**14.7**	**10.4**	**11.1**	**16.9**	**13.6**	**25.5**	**21.0**			**21.3**	**11.5**
cis-1,2-Dichloroethene	**4,860**	**3,000**	**2,440**	**2,820**	**4,820**	**3,460**	**4,130**	**7,250**			**3,470**	**1,820**
trans-1,2-Dichloroethene	**34.7**	**25.2**	**14.2**	**11.1**	**16.9**	**19.4**	**87.5**	**50.3**			**137**	**25.3**
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Trichloroethene	**1,660**	**1,310**	**1,420**	**1,400**	**2,480**	**1,780**	**3,820**	**2,300**			**1,940**	**1,080**
Vinyl Chloride	**538**	**383**	**258**	**411**	**585**	**443**	**516**	**499**			**284**	**348**
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Pre-Carbon TOTAL VOCs	**7,116**	**4,738**	**4,148**	**4,658**	**7,927**	**5,722**	**9,009**	**10,555**	**0**	**0**	**6,757**	**3,289**

Notes:

ND = Not detected/Below minimum laboratory reporting limit
µg/L = micrograms per liter
Pre-Carbon sample results represent system influent.

System Carbon was changed out on May 19, 2009 and October 7, 2009.
System was off-line from September 29, 2009 to November 3, 2009 for pump repair.
System was off-line from November 30, 2009 to December 21, 2009 for pump repair.

Table 6
POTW Monthly Monitoring Summary
2009 System Primary Carbon Effluent
Volatile Organic Compounds (µg/L)

Sample Date	30-Jan-09	27-Feb-09	20-Mar-09	15-Apr-09	26-May-09	30-Jun-09	22-Jul-09	31-Aug-09			30-Nov-09	22-Dec-09
Acetone	ND	ND	ND	ND	ND	ND	**171**	**430**			**1,300**	**2,030**
Benzene	ND	ND	ND	ND	ND	ND	**4.5**	ND			ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
1,1-Dichloroethene	ND	**6.4**	**7.7**	**9.0**	ND	ND	**7.3**	**7.6**			ND	ND
cis-1,2-Dichloroethene	**138**	**2,470**	**3,110**	**3,410**	**151**	**60.9**	**732**	**2,720**			**58.0**	**64.9**
trans-1,2-Dichloroethene	ND	**7.7**	**5.8**	**9.0**	ND	ND	**12.1**	**12.5**			ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Trichloroethene	ND	**20.8**	**64.1**	**155**	**5.3**	ND	**260**	**125**			ND	ND
Vinyl Chloride	**813**	**365**	**242**	**318**	**4.8**	**287**	**176**	**595**			**428**	**778**
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Primary-Carbon TOTAL VOCs	**951**	**2,870**	**3,430**	**3,901**	**161**	**348**	**1,363**	**3,890**	**0**	**0**	**1,786**	**2,873**

Notes:

ND = Not detected/Below minimum laboratory reporting limit
µg/L = micrograms per liter
Primary Carbon sample results represent effluent from the first carbon vessel in the two (2) carbon vessel system.

System Carbon was changed out on May 19, 2009 and October 7, 2009.
System was off-line from September 29, 2009 to November 3, 2009 for pump repair.
System was off-line from November 30, 2009 to December 21, 2009 for pump repair.

Table 7
POTW Monthly Monitoring Summary
2009 System Post Carbon Effluent
Volatile Organic Compounds (µg/L)

Sample Date	30-Jan-09	27-Feb-09	20-Mar-09	15-Apr-09	26-May-09	30-Jun-09	22-Jul-09	31-Aug-09			30-Nov-09	22-Dec-09
Acetone	ND	ND	ND	ND	ND	ND	**22.5**	**350**			**30.3**	**31.4**
Benzene	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
cis-1,2-Dichloroethene	**227**	**119**	**95.9**	**82.1**	**42.9**	**22.0**	**21.2**	**26.7**			**349**	**244**
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND			**5.0**	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND			**14.6**	**10.0**
Vinyl Chloride	**7.4**	**288**	**276**	**327**	**11.8**	**4.3**	**43.3**	**566**			**7.1**	**6.8**
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND
Post-Carbon TOTAL VOCs	**234**	**407**	**372**	**409**	**55**	**26**	**87**	**943**	**0**	**0**	**406**	**292**

Notes:

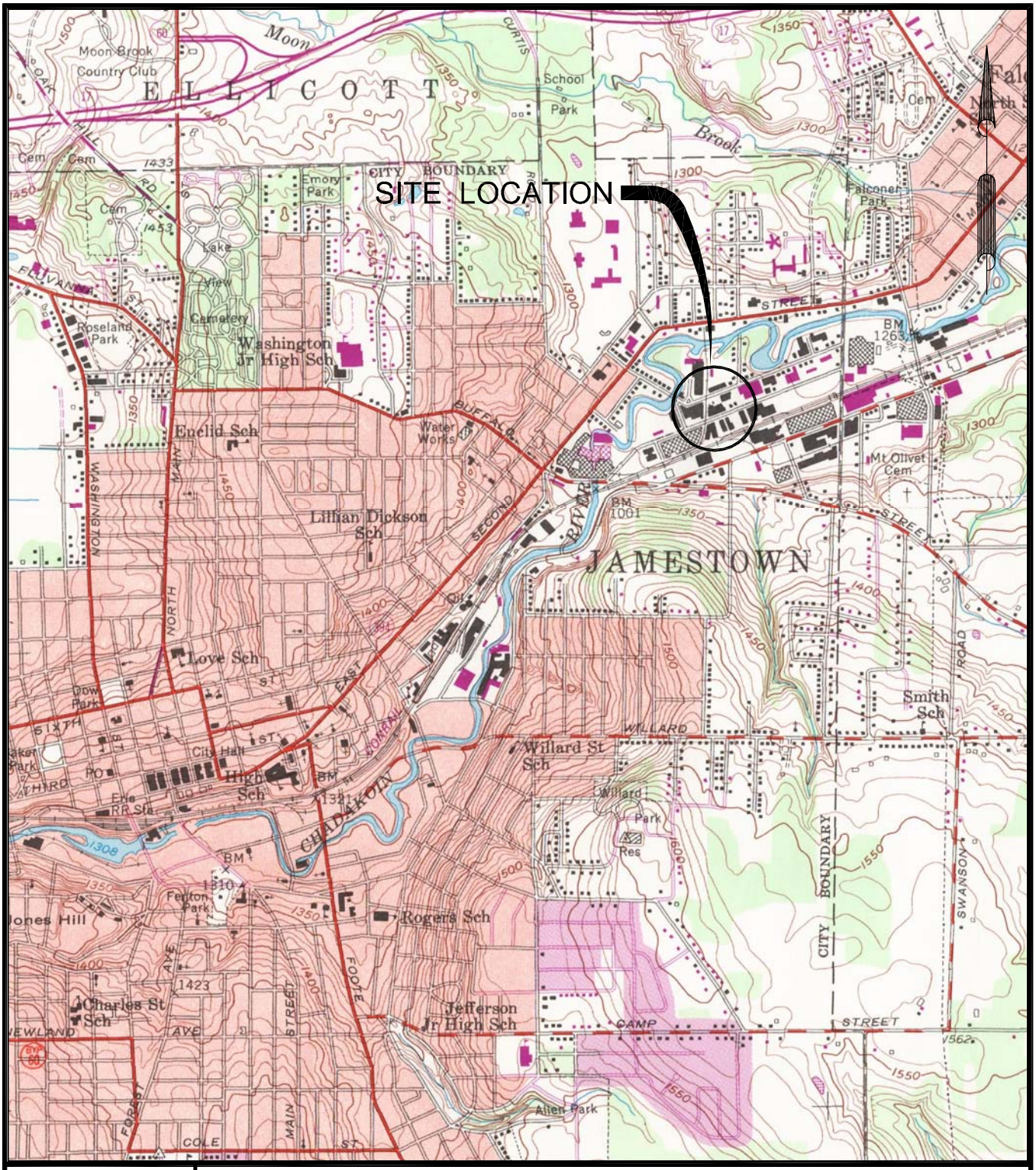
ND = Not detected/Below minimum laboratory reporting limit
µg/L = micrograms per liter

POTW Discharge Limit = 2,130 ug/L Total Toxic Organics (VOCs)

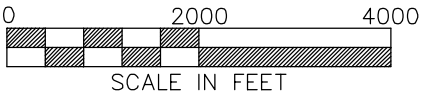
Post-Carbon sample results represent system effluent from the secondary carbon vessel (or the third carbon vessel if used) to the POTW.
Post-Carbon sample is a laboratory prepared composite of four (4) grab samples taken at 30-minute intervals.

System Carbon was changed out on May 19, 2009 and October 7, 2009.
System was off-line from September 29, 2009 to November 3, 2009 for pump repair.
System was off-line from November 30, 2009 to December 21, 2009 for pump repair.

FIGURES



QUADRANGLE LOCATION



SCALE IN FEET

REFERENCE:

BASE MAP IS A PORTION OF THE U.S.G.S. 7.5 MINUTE TOPOGRAPHIC SERIES JAMESTOWN, NY QUADRANGLE. DATED: 1954, PHOTOREVISED: 1979. SCALE: 1" = 2000', CONTOUR INTERVAL IS 10 FEET.

URS

2009 ANNUAL PERFORMANCE MONITORING REPORT SITE LOCATION MAP

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 41568652	
SCALE: AS SHOWN	FIGURE NUMBER 1		REV 0

FILE: \ESSEXHOP\2006-MAP\PMP-2009\2000USGS.DWG

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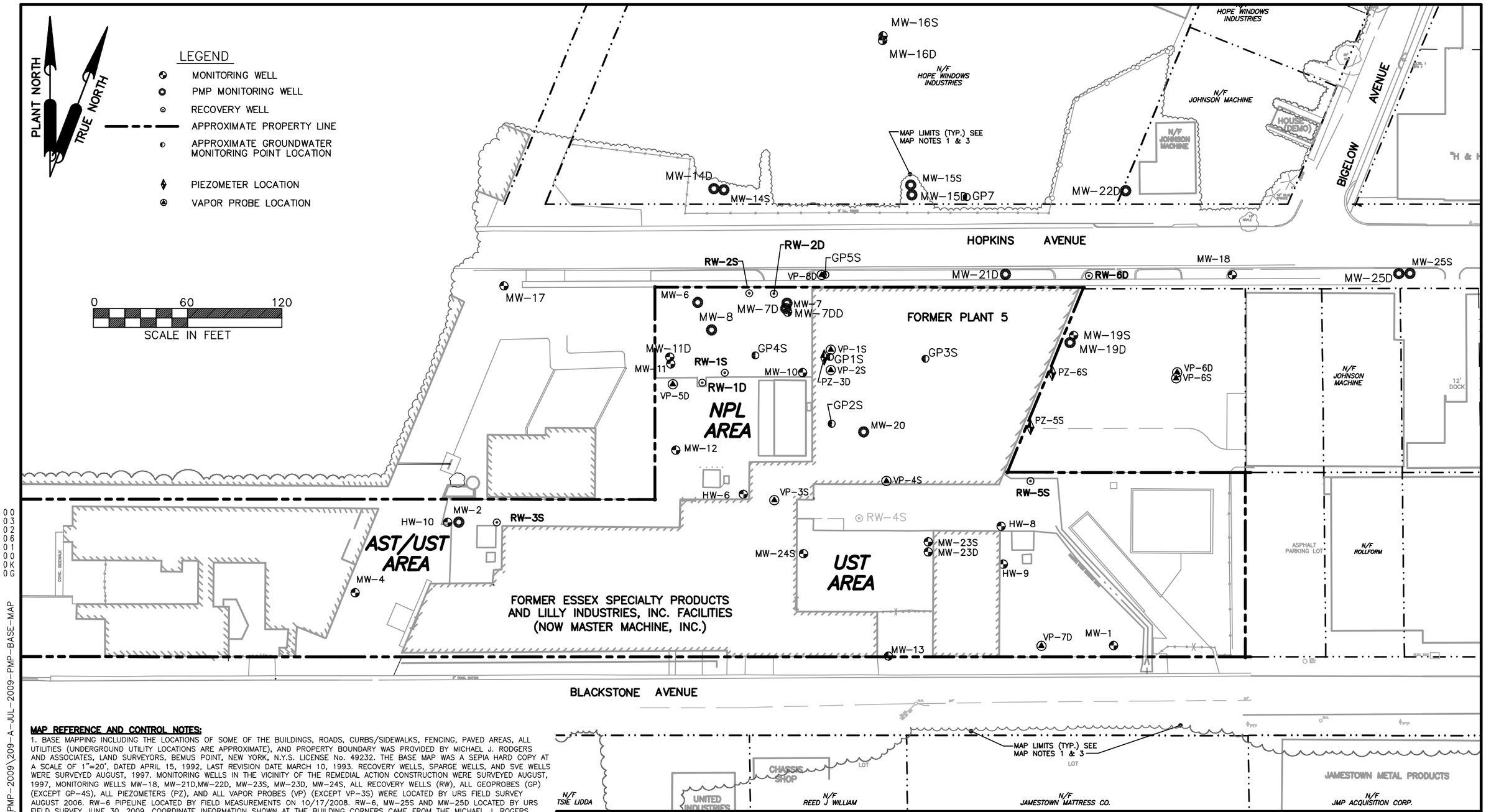

MAP REFERENCE AND CONTROL NOTES:

1. BASE MAPPING INCLUDING THE LOCATIONS OF SOME OF THE BUILDINGS, ROADS, CURBS/SIDEWALKS, FENCING, PAVED AREAS, ALL UTILITIES (UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE), AND PROPERTY BOUNDARY WAS PROVIDED BY MICHAEL J. RODGERS AND ASSOCIATES, LAND SURVEYORS, BEMUS POINT, NEW YORK, N.Y.S. LICENSE No. 49232. THE BASE MAP WAS A SEPIA HARD COPY AT A SCALE OF 1"=20', DATED APRIL 15, 1992, LAST REVISION DATE MARCH 10, 1993. RECOVERY WELLS, SPARGE WELLS, AND SVE WELLS WERE SURVEYED AUGUST, 1997. MONITORING WELLS IN THE VICINITY OF THE REMEDIAL ACTION CONSTRUCTION WERE SURVEYED AUGUST, 1997, MONITORING WELLS MW-18, MW-21D,MW-22D, MW-23S, MW-23D, MW-24S, ALL RECOVERY WELLS (RW), ALL GEOPROBES (GP) (EXCEPT GP-4S), ALL PIEZOMETERS (PZ), AND ALL VAPOR PROBES (VP) (EXCEPT VP-3S) WERE LOCATED BY URS FIELD SURVEY AUGUST 2006. RW-6 PIPELINE LOCATED BY FIELD MEASUREMENTS ON 10/17/2008. RW-6, MW-25S AND MW-25D LOCATED BY URS FIELD SURVEY JUNE 30, 2009. COORDINATE INFORMATION SHOWN AT THE BUILDING CORNERS CAME FROM THE MICHAEL J. ROGERS SURVEY DONE ON JANUARY 9, 1998. ALL OTHER BUILDING CORNERS ARE APPROXIMATE. THE SITE AREA BEYOND THE 1998 SURVEY WAS MAPPED BY URS CORPORATION IN AUGUST 2006. THIS MAPPING USED THE SAME VERTICAL AND HORIZONTAL REFERENCE DATA AS THE PREVIOUS SURVEY. THE MAPPING WAS MERGED WITH THE 1998 DATA TO PRODUCE A COMPOSITE SITE BASE MAP. THE LIMITS OF THE COMPOSITE SURVEY MAP ARE SHOWN ON THE DRAWING. SEE MAP REFERENCE 3.

2. VERTICAL BENCH MARK INFORMATION CAME FROM U.S.G.S. PLAQUE U-88-S.E. ABUTT. ERIE R.R. BRIDGE OVER BUFFALO ST., ELEV.=1296.034 (NATIONAL GEODETIC VERTICAL DATUM, 1929).
HORIZONTAL COORDINATES PROVIDED FOR THE MONITORING WELLS AND THE PROPERTY CORNERS ARE BASED ON A LOCAL GRID ESTABLISHED BY THE SURVEYOR. N10000, E10000 IS A PK NAIL SET IN THE CONCRETE CURB/GUTTER AND IS PART OF THE ORIGINAL TRAVERSE. IRON STAKES WERE SET AT THE PROPERTY CORNERS.

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URS

PITTSBURGH, PENNSYLVANIA

2009 ANNUAL PERFORMANCE MONITORING REPORT
SITE PLAN

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC. | JOB NUMBER: 41568652

SCALE: AS SHOWN | FIGURE NUMBER 2 | REV 0

FILE: \ESSEXHOP\2006-MAP\PMP-2009\209-A-JUL-2009-PMP-BASE-MAP
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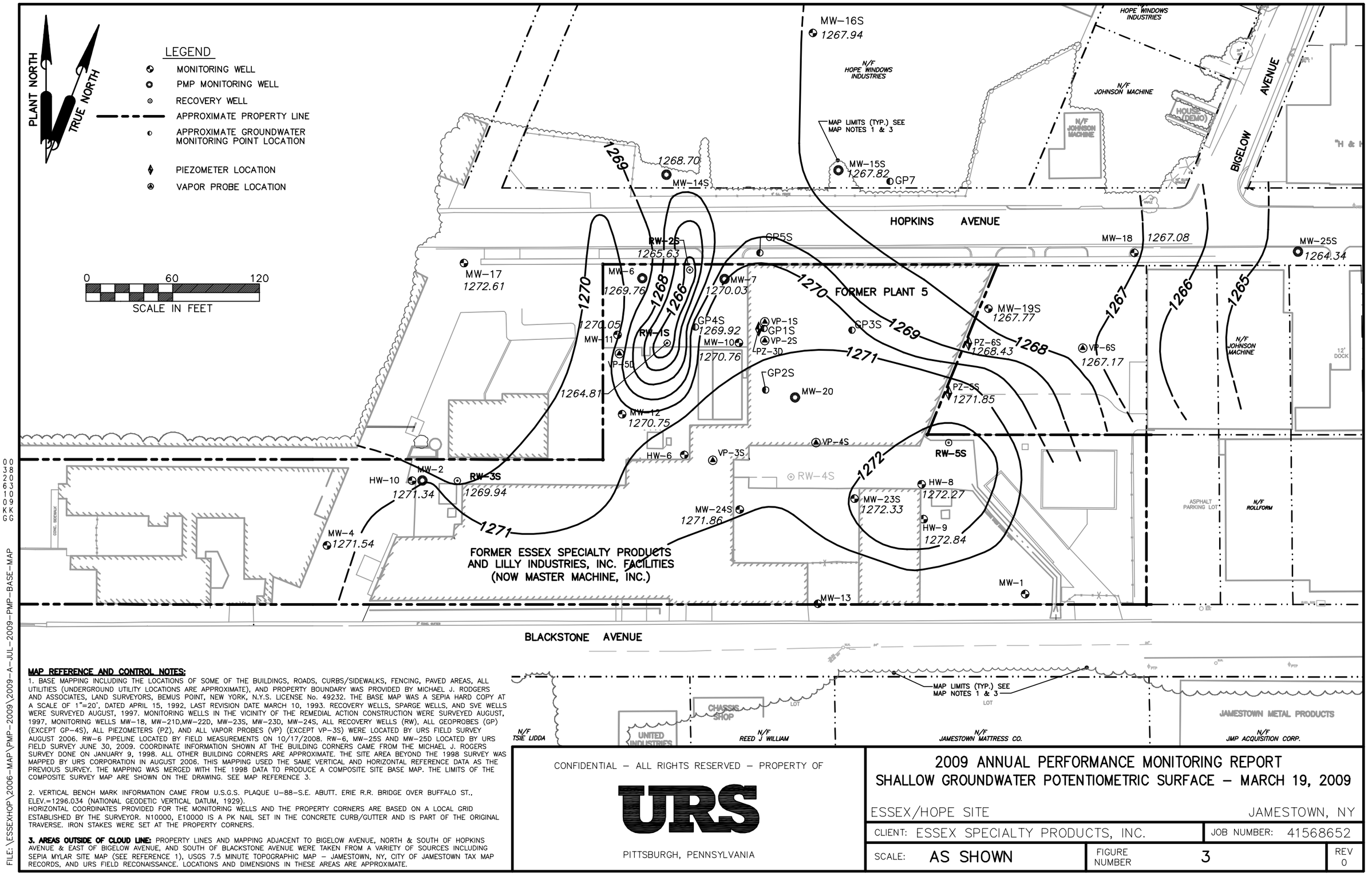

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URS

PITTSBURGH, PENNSYLVANIA

2009 ANNUAL PERFORMANCE MONITORING REPORT
SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE – MARCH 19, 2009

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 41568652	
SCALE: AS SHOWN	FIGURE NUMBER 3		REV 0

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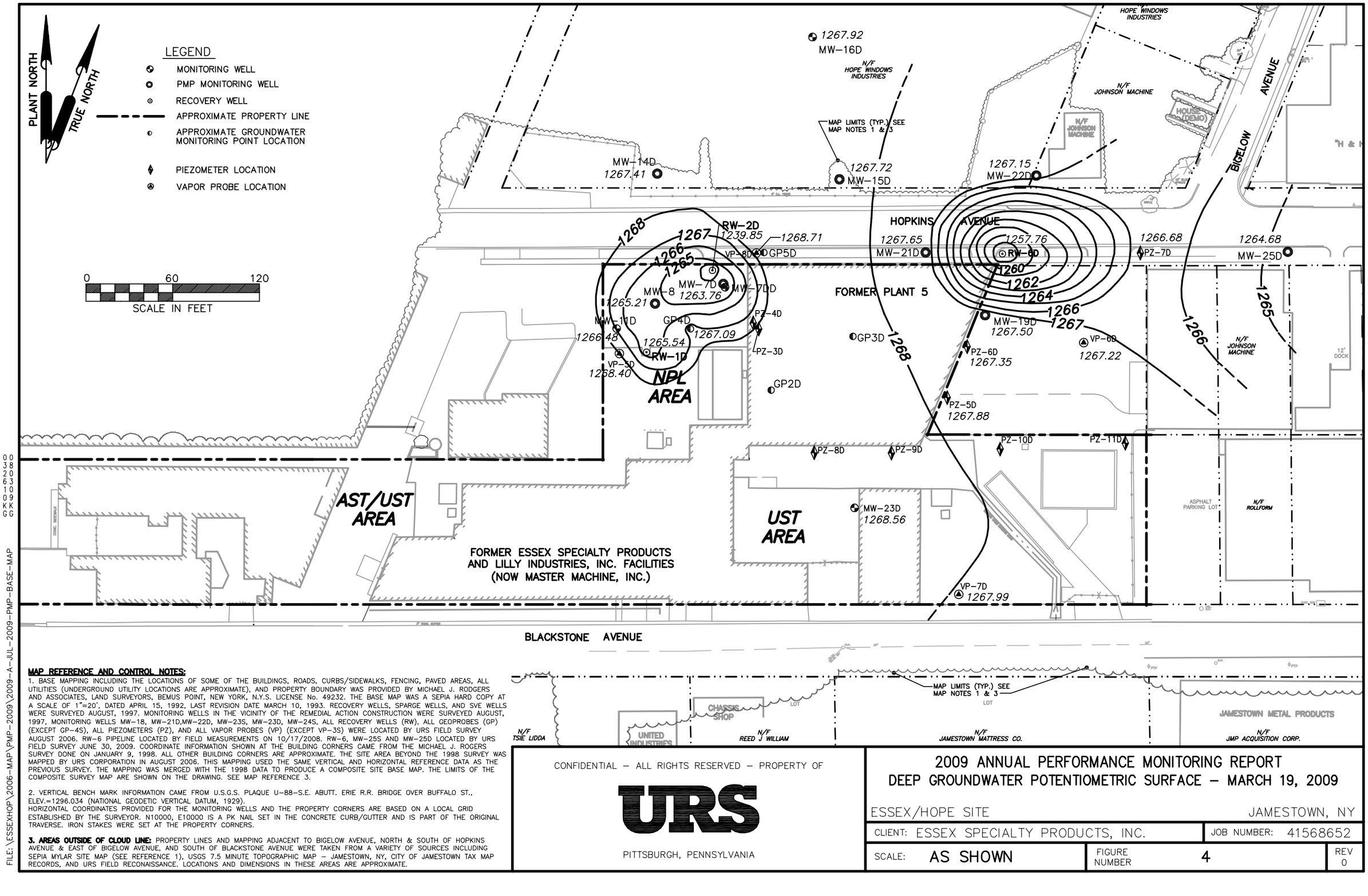

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URS

PITTSBURGH, PENNSYLVANIA

2009 ANNUAL PERFORMANCE MONITORING REPORT
DEEP GROUNDWATER POTENTIOMETRIC SURFACE – MARCH 19, 2009

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 41568652	
SCALE: AS SHOWN	FIGURE NUMBER 4		REV 0

FILE: \ESSEXHOP\2006-MAP\PMP-2009\2009-A-JUL-2009-PMP-BASE-MAP
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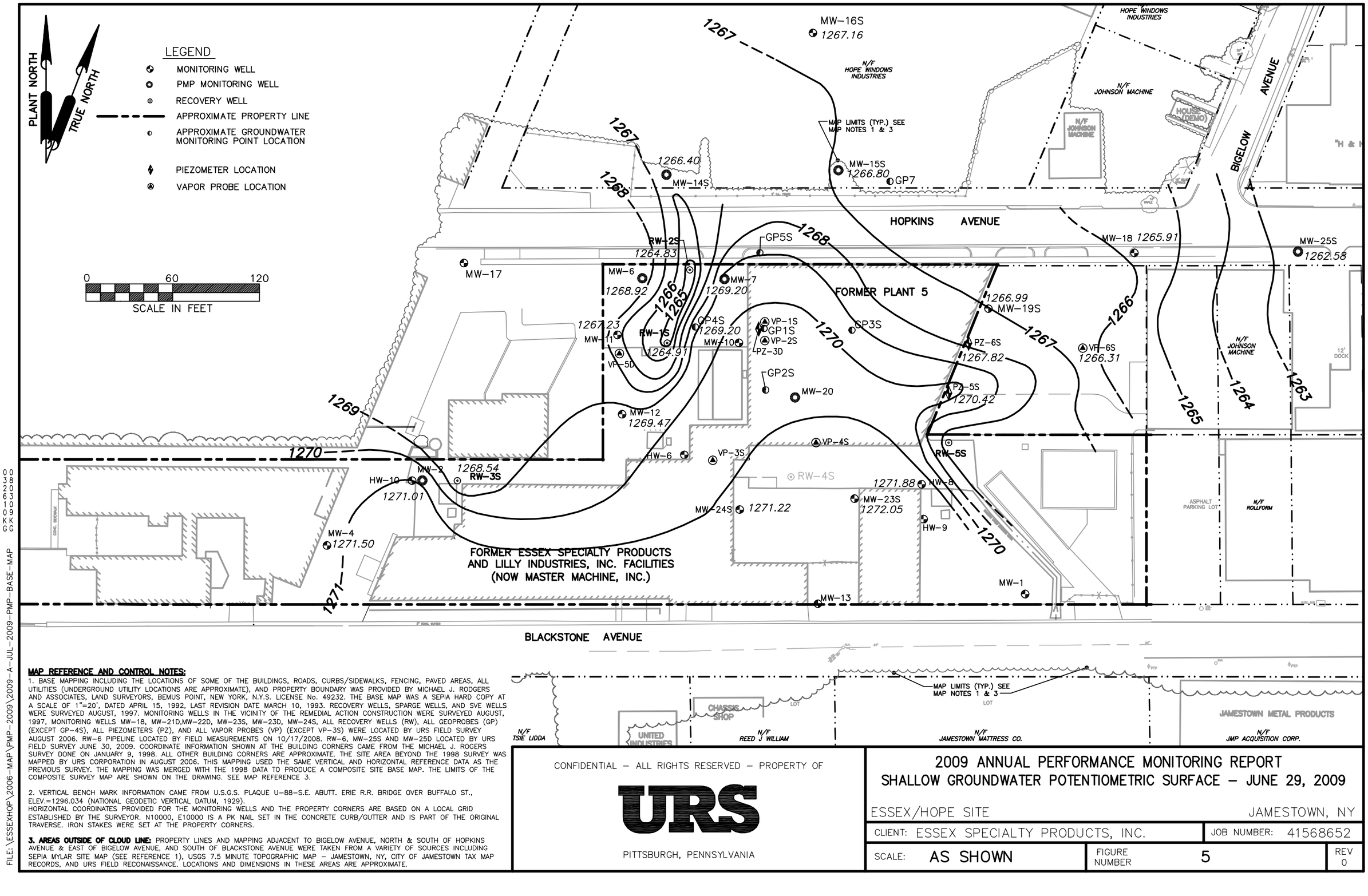

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URS

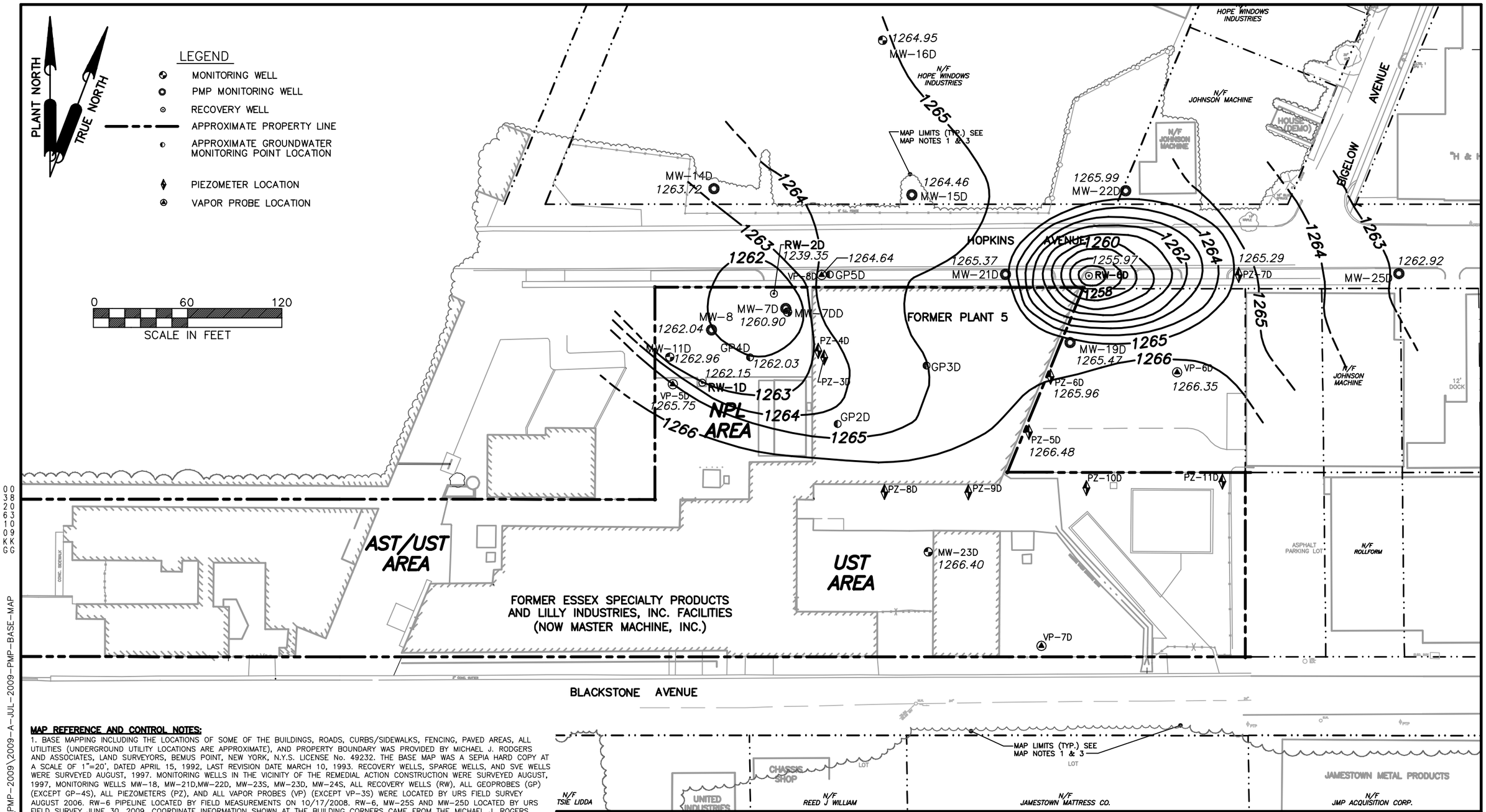
PITTSBURGH, PENNSYLVANIA

2009 ANNUAL PERFORMANCE MONITORING REPORT
SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE – JUNE 29, 2009

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 41568652	
SCALE: AS SHOWN	FIGURE NUMBER 5		REV 0

FILE: \ESSEXHOP\2006-MAP\PMP-2009\2009-A-JUL-2009-PMP-BASE-MAP 00382063109KKGG



MAP REFERENCE AND CONTROL NOTES:

1. BASE MAPPING INCLUDING THE LOCATIONS OF SOME OF THE BUILDINGS, ROADS, CURBS/SIDEWALKS, FENCING, PAVED AREAS, ALL UTILITIES (UNDERGROUND UTILITY LOCATIONS ARE APPROXIMATE), AND PROPERTY BOUNDARY WAS PROVIDED BY MICHAEL J. RODGERS AND ASSOCIATES, LAND SURVEYORS, BEMUS POINT, NEW YORK, N.Y.S. LICENSE No. 49232. THE BASE MAP WAS A SEPIA HARD COPY AT A SCALE OF 1"=20', DATED APRIL 15, 1992, LAST REVISION DATE MARCH 10, 1993. RECOVERY WELLS, SPARGE WELLS, AND SVE WELLS WERE SURVEYED AUGUST, 1997. MONITORING WELLS IN THE VICINITY OF THE REMEDIAL ACTION CONSTRUCTION WERE SURVEYED AUGUST, 1997, MONITORING WELLS MW-18, MW-21D,MW-22D, MW-23S, MW-23D, MW-24S, ALL RECOVERY WELLS (RW), ALL GEOPROBES (GP) (EXCEPT GP-4S), ALL PIEZOMETERS (PZ), AND ALL VAPOR PROBES (VP) (EXCEPT VP-3S) WERE LOCATED BY URS FIELD SURVEY AUGUST 2006. RW-6 PIPELINE LOCATED BY FIELD MEASUREMENTS ON 10/17/2008. RW-6, MW-25S AND MW-25D LOCATED BY URS FIELD SURVEY JUNE 30, 2009. COORDINATE INFORMATION SHOWN AT THE BUILDING CORNERS CAME FROM THE MICHAEL J. ROGERS SURVEY DONE ON JANUARY 9, 1998. ALL OTHER BUILDING CORNERS ARE APPROXIMATE. THE SITE AREA BEYOND THE 1998 SURVEY WAS MAPPED BY URS CORPORATION IN AUGUST 2006. THIS MAPPING USED THE SAME VERTICAL AND HORIZONTAL REFERENCE DATA AS THE PREVIOUS SURVEY. THE MAPPING WAS MERGED WITH THE 1998 DATA TO PRODUCE A COMPOSITE SITE BASE MAP. THE LIMITS OF THE COMPOSITE SURVEY MAP ARE SHOWN ON THE DRAWING. SEE MAP REFERENCE 3.

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PITTSBURGH, PENNSYLVANIA

2009 ANNUAL PERFORMANCE MONITORING REPORT
DEEP GROUNDWATER POTENTIOMETRIC SURFACE – JUNE 29, 2009

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 41568652	
SCALE: AS SHOWN	FIGURE NUMBER 6		REV 0

FILE: \ESSEXHOP\2006-MAP\PMP-2009\2009-A-JUL-2009-PMP-BASE-MAP
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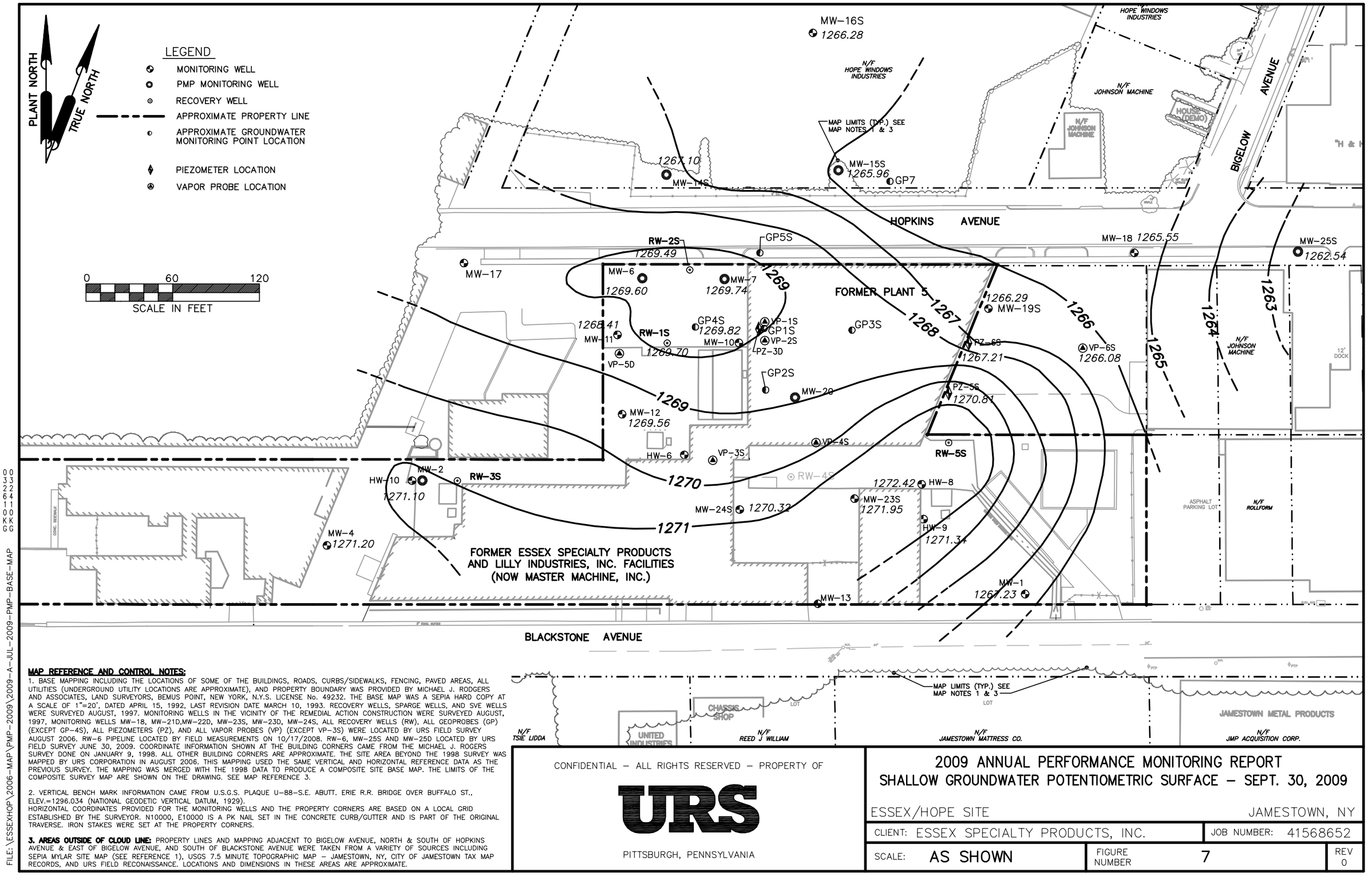

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URS

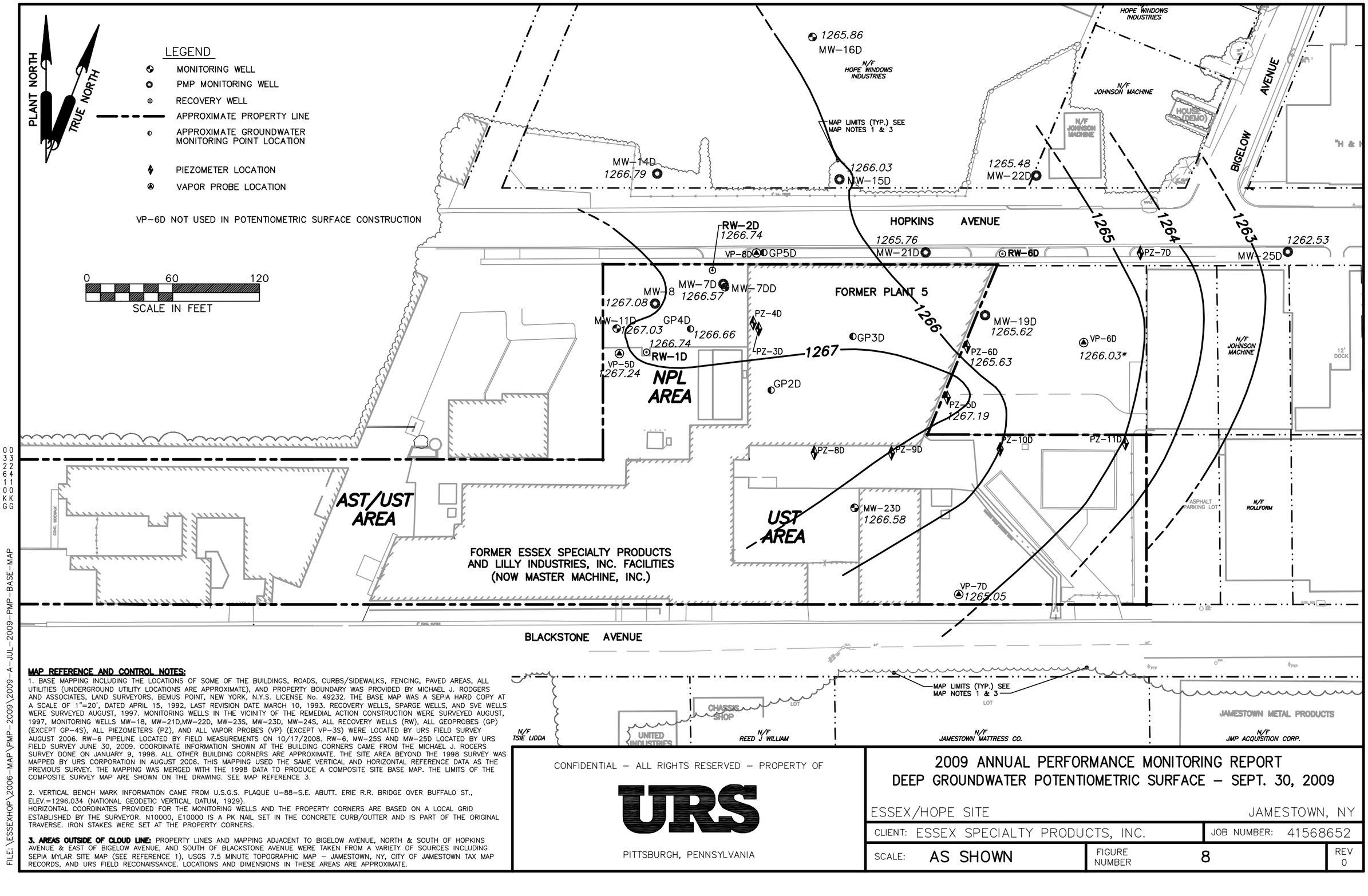
PITTSBURGH, PENNSYLVANIA

2009 ANNUAL PERFORMANCE MONITORING REPORT
SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE – SEPT. 30, 2009

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 41568652	
SCALE: AS SHOWN	FIGURE NUMBER 7		REV 0

FILE: \ESSEXHOP\2006-MAP\PMP-2009\2009-A-JUL-2009-PMP-BASE-MAP 00332264110OKKGG



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PITTSBURGH, PENNSYLVANIA

2009 ANNUAL PERFORMANCE MONITORING REPORT
DEEP GROUNDWATER POTENTIOMETRIC SURFACE – SEPT. 30, 2009

ESSEX/HOPE SITE — JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 41568652	
SCALE: AS SHOWN	FIGURE NUMBER 8		REV 0

FILE: \ESSEXHOP\2006-MAP\PMP-2009\2009-A-JUL-2009-PMP-BASE-MAP 00332264110 0KKGG

APPENDIX A

GROUNDWATER EXTRACTION MONITORING DATA

APPENDIX A-1

WATER LEVEL DATA

APPENDIX A-1

2009 Water Level Data
Essex/Hope Site
Jamestown, NY

Well No.	Northing	Easting	Reference Elevation (ft msl)	Depth to Top of Screen	Depth to Bottom of Screen	Screened Zone	March 19, 2009			June 29, 2009		
							Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)	Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)
MW-1	9758.7161	10383.6499	1280.48		20.0	Shallow	NA	NA	NA	NA	NA	NA
MW-2	9837.1531	9959.6857	1279.87		16.0	Shallow	8.53	NA	1271.34	8.86	NA	1271.01
MW-4	9792.3277	9900.7631	1281.02	13.0	18.0	Shallow	9.48	NA	1271.54	9.52	NA	1271.50
MW-5	9789.6222	9631.761	1280.82	9.5	20.0	Shallow	NA	NA	NA	NA	NA	NA
MW-6	9977.1197	10118.8762	1277.98			Shallow	8.22	NA	1269.76	9.06	NA	1268.92
MW-7	9976.6467	10175.6797	1277.73	10.0	20.0	Shallow	7.70	NA	1270.03	8.53	NA	1269.20
MW-7D	9973.2593	10174.8524	1277.8	35.0	45.0	Deep	14.04	NA	1263.76	16.90	NA	1260.90
MW-7DD	9970.8547	10176.2698	1277.74	90.0	100.0	Glacial Till	NA	NA	NA	NA	NA	NA
MW-8	9959.6089	10127.6898	1277.97	39.6	49.6	Deep	12.76	NA	1265.21	15.93	NA	1262.04
MW-10	9932.4702	10185.7078	1277.94	8.5	18.5	Shallow	7.18	NA	1270.76	NA	NA	NA
MW-11	9937.9912	10101.7016	1277.75	5.0	15.0	Shallow	7.70	NA	1270.05	10.52	NA	1267.23
MW-11D	9942.3792	10101.1482	1277.85	35.0	45.0	Deep	11.37	NA	1266.48	14.89	NA	1262.96
MW-12	9883.0874	10104.9278	1278.18	4.0	14.0	Shallow	7.43	NA	1270.75	8.71	NA	1269.47
MW-13	9752.0619	10240.2934	1278.12	8.0	18.0	Shallow	NA	NA	NA	NA	NA	NA
MW-14S	10048.7753	10135.5198	1280.25	10.0	20.0	Shallow	11.55	NA	1268.70	13.85	NA	1266.40
MW-14D	10049.5051	10129.1897	1280.01	40.0	50.0	Deep	12.60	NA	1267.41	16.29	NA	1263.72
MW-15S	10051.8272	10254.4862	1279.55	10.0	20.0	Shallow	11.73	NA	1267.82	12.75	NA	1266.80
MW-15D	10045.5611	10255.205	1279.46	34.0	44.0	Deep	11.74	NA	1267.72	15.00	NA	1264.46
MW-16S	10146.7788	10236.8582	1279.32	7.0	17.0	Shallow	11.38	NA	1267.94	12.16	NA	1267.16
MW-16D	10143.9497	10236.6005	1279.05	36.0	46.0	Deep	11.13	NA	1267.92	14.10	NA	1264.95
MW-17	9987.6315	9995.5207	1278.7			Deep	6.09	NA	1272.61	NA	NA	NA
MW-18	9994.6655	10459.2207	1275.49		20.0	Shallow	8.41	NA	1267.08	9.58	NA	1265.91
MW-19S	9956.1454	10358.207	1276.82	9.0	19.0	Shallow	9.05	NA	1267.77	9.83	NA	1266.99
MW-19D	9951.569	10355.9748	1276.21	34.0	44.0	Deep	8.71	NA	1267.50	10.74	NA	1265.47
MW-20	9894.7336	10224.5128	1278.56	6.5	11.5	Shallow	NA	NA	NA	NA	NA	NA
MW-21D	9995.0094	10314.801	1276.12	31.5	41.0	Deep	8.47	NA	1267.65	10.75	NA	1265.37
MW-22D	10048.1687	10391.3548	1276.04	32.5	42.0	Deep	8.89	NA	1267.15	10.05	NA	1265.99
MW-23S	9824.696	10265.6365	1277.85	5.0	14.5	Shallow	5.52	NA	1272.33	5.80	NA	1272.05
MW-23D	9818.3152	10265.6675	1277.89	28.0	37.5	Deep	9.33	NA	1268.56	11.49	NA	1266.40

APPENDIX A-1

2009 Water Level Data
Essex/Hope Site
Jamestown, NY

Well No.	Northing	Easting	Reference Elevation (ft msl)	Depth to Top of Screen	Depth to Bottom of Screen	Screened Zone	March 19, 2009			June 29, 2009		
							Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)	Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)
MW-24S	9817.1277	10186.2119	1278.77	5.0	14.5	Shallow	6.91	NA	1271.86	7.55	NA	1271.22
MW-25S	9995.6	10572.35	1272.76			Shallow	8.42	NA	1264.34	10.18	NA	1262.58
MW-25D	9995.46	10565.28	1273.41			Deep	8.73	NA	1264.68	10.49	NA	1262.92
HW-8	9834.664	10312.0885	1277.81	6.0	16.0	Shallow	5.54	NA	1272.27	5.93	NA	1271.88
HW-9	9810.5264	10313.3873	1280.78	6.0	16.0	Shallow	7.94	NA	1272.84	NA	NA	NA
HW-10	9837.2976	9966.7406	1279.55	7.0	17.0	Shallow	NA	NA	NA	NA	NA	NA
RW-1S	9932.3606	10136.0515	1275.81	10.5	16.0	Shallow	11.00	11.50	1264.81	10.90	11.50	1264.91
RW-1D	9925.9898	10121.7689	1276.34	32.0	57.0	Deep	10.80	NA	1265.54	14.19	NA	1262.15
RW-2S	9982.9501	10151.7112	1276.33	10.0	15.5	Shallow	10.70	12.70	1265.63	11.50	12.70	1264.83
RW-2D	9982.6088	10169.3122	1276.35	27.0	42.0	Deep	36.50	36.90	1239.85	37.00	36.90	1239.35
RW-3S	9837.0894	9990.9663	1278.14	9.0	13.5	Shallow	8.20	8.80	1269.94	9.60	8.80	1268.54
RW-5S	9863.4298	10330.7462	1277.29	7.0	10.0	Shallow	NA	NA	NA	NA	NA	NA
RW-6D	9994.04	10367.91	1265.91			Deep	8.15	NA	1257.76	9.94	NA	1255.97
GP-1S	9942.4384	10203.1085	1278.83	8.0	12.8	Shallow	NA	NA	NA	NA	NA	NA
GP-2S	9899.8775	10204.1632	1278.46	2.6	12.6	Shallow	NA	NA	NA	NA	NA	NA
GP-2D	9899.7358	10207.9807	1278.56	30.0	34.8	Deep	NA	NA	NA	NA	NA	NA
GP-3S	9941.2543	10263.8898	1278.59	4.0	14.0	Shallow	NA	NA	NA	NA	NA	NA
GP-3D	9936.9027	10264.588	1278.62	34.0	38.8	Deep	NA	NA	NA	NA	NA	NA
GP-4S	9940.86*	10154.97*	1278.06	10.8	15.8	Shallow	8.14	NA	1269.92	8.86	NA	1269.20
GP-4D	9942.1743	10152.2232	1277.95	39.0	43.8	Deep	10.86	NA	1267.09	15.92	NA	1262.03
GP-5S	9994.7299	10200.2055	1277.44	7.0	11.8	Shallow	NA	NA	NA	NA	NA	NA
GP-5D	9994.8642	10202.9906	1276.81	36.0	40.8	Deep	NA	NA	NA	NA	NA	NA
PZ-1S	9981.8469	10169.3122	1277.77			Shallow	NA	NA	NA	NA	NA	NA
PZ-1D	9980.4294	10171.2636	1277.64			Deep	NA	NA	NA	NA	NA	NA
PZ-2D	9979.5627	10172.4761	1277.55			Deep	NA	NA	NA	NA	NA	NA
PZ-3D	9942.0414	10199.2937	1278.8	20.0	40.0	Deep	NA	NA	NA	NA	NA	NA
PZ-4D	9946.2326	10195.679	1278.71			Deep	NA	NA	NA	NA	NA	NA
PZ-5S	9897.7381	10330.7876	1276.42	5.5	12.0	Shallow	4.57	NA	1271.85	6.00	NA	1270.42
PZ-5D	9894.5731	10329.7148	1276.4	21.0	42.0	Deep	8.52	NA	1267.88	9.92	NA	1266.48

APPENDIX A-1

2009 Water Level Data
Essex/Hope Site
Jamestown, NY

Well No.	Northing	Easting	Reference Elevation (ft msl)	Depth to Top of Screen	Depth to Bottom of Screen	Screened Zone	March 19, 2009			June 29, 2009		
							Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)	Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)
PZ-6S	9932.2079	10344.4895	1276.61	8.5	13.5	Shallow	8.18	NA	1268.43	8.79	NA	1267.82
PZ-6D	9929.8004	10343.4742	1276.62	25.5	45.5	Deep	9.27	NA	1267.35	10.66	NA	1265.96
PZ-7D	9994.5452	10463.2465	1275.68	22.0	42.0	Deep	9.00	NA	1266.68	10.39	NA	1265.29
PZ-8D	9856.4908	10237.8118	1278.12	21.0	41.0	Deep	NA	NA	NA	NA	NA	NA
PZ-9D	9856.2398	10291.1658	1277.3	19.0	39.0	Deep	NA	NA	NA	NA	NA	NA
PZ-10D	9858.9821	10366.4236	1277.52	26.5	46.5	Deep	NA	NA	NA	NA	NA	NA
PZ-11D	9863.0677	10452.8989	1276.63	21.3	41.3	Deep	9.43	NA	1267.20	NA	NA	NA
VP-5D	9925.1052	10103.0141	1277.88	12.5	34.3	Deep	9.48	NA	1268.40	12.13	NA	1265.75
VP-6S	9928.8123	10423.4628	1276.48	18.3	24.0	Deep upper gravel	9.31	NA	1267.17	10.17	NA	1266.31
VP-6D	9932.5744	10424.1378	1276.6	29.5	39.5	Deep	9.38	NA	1267.22	10.25	NA	1266.35
VP-7D	9758.4881	10337.7133	1278.64	20.4	39.3	Deep	10.65	NA	1267.99	NA	NA	NA
VP-8D	9994.6178	10197.8133	1277.15	20.0	39.0	Deep	8.98	NA	1268.17	12.51	NA	1264.64

Notes:

NM = Not Measure
NA = Not Applicable

RW-4S, RW-5S taken offline in October 2002 for UST Removal.
Wells RW-4S, TW-01, and HW-7 destroyed during UST removal operations.

APPENDIX A-1

2009 Water Level Data
Essex/Hope Site
Jamestown, NY

Well No.	Northing	Easting	Reference Elevation (ft msl)	Depth to Top of Screen	Depth to Bottom of Screen	Screened Zone	September 30, 2009		
							Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)
MW-1	9758.7161	10383.6499	1280.48		20.0	Shallow	13.25	NA	1267.23
MW-2	9837.1531	9959.6857	1279.87		16.0	Shallow	8.77	NA	1271.10
MW-4	9792.3277	9900.7631	1281.02	13.0	18.0	Shallow	9.82	NA	1271.20
MW-5	9789.6222	9631.761	1280.82	9.5	20.0	Shallow	NA	NA	NA
MW-6	9977.1197	10118.8762	1277.98			Shallow	8.38	NA	1269.60
MW-7	9976.6467	10175.6797	1277.73	10.0	20.0	Shallow	7.99	NA	1269.74
MW-7D	9973.2593	10174.8524	1277.8	35.0	45.0	Deep	11.23	NA	1266.57
MW-7DD	9970.8547	10176.2698	1277.74	90.0	100.0	Glacial Till	NA	NA	NA
MW-8	9959.6089	10127.6898	1277.97	39.6	49.6	Deep	10.89	NA	1267.08
MW-10	9932.4702	10185.7078	1277.94	8.5	18.5	Shallow	NA	NA	NA
MW-11	9937.9912	10101.7016	1277.75	5.0	15.0	Shallow	9.34	NA	1268.41
MW-11D	9942.3792	10101.1482	1277.85	35.0	45.0	Deep	10.82	NA	1267.03
MW-12	9883.0874	10104.9278	1278.18	4.0	14.0	Shallow	8.62	NA	1269.56
MW-13	9752.0619	10240.2934	1278.12	8.0	18.0	Shallow	NA	NA	NA
MW-14S	10048.7753	10135.5198	1280.25	10.0	20.0	Shallow	13.15	NA	1267.10
MW-14D	10049.5051	10129.1897	1280.01	40.0	50.0	Deep	13.22	NA	1266.79
MW-15S	10051.8272	10254.4862	1279.55	10.0	20.0	Shallow	13.59	NA	1265.96
MW-15D	10045.5611	10255.205	1279.46	34.0	44.0	Deep	13.43	NA	1266.03
MW-16S	10146.7788	10236.8582	1279.32	7.0	17.0	Shallow	13.04	NA	1266.28
MW-16D	10143.9497	10236.6005	1279.05	36.0	46.0	Deep	13.19	NA	1265.86
MW-17	9987.6315	9995.5207	1278.7			Deep	10.49	NA	1268.21
MW-18	9994.6655	10459.2207	1275.49		20.0	Shallow	9.94	NA	1265.55
MW-19S	9956.1454	10358.207	1276.82	9.0	19.0	Shallow	10.53	NA	1266.29
MW-19D	9951.569	10355.9748	1276.21	34.0	44.0	Deep	10.59	NA	1265.62
MW-20	9894.7336	10224.5128	1278.56	6.5	11.5	Shallow	NA	NA	NA
MW-21D	9995.0094	10314.801	1276.12	31.5	41.0	Deep	10.36	NA	1265.76
MW-22D	10048.1687	10391.3548	1276.04	32.5	42.0	Deep	10.56	NA	1265.48
MW-23S	9824.696	10265.6365	1277.85	5.0	14.5	Shallow	5.90	NA	1271.95
MW-23D	9818.3152	10265.6675	1277.89	28.0	37.5	Deep	11.31	NA	1266.58

APPENDIX A-1

2009 Water Level Data
Essex/Hope Site
Jamestown, NY

Well No.	Northing	Easting	Reference Elevation (ft msl)	Depth to Top of Screen	Depth to Bottom of Screen	Screened Zone	September 30, 2009		
							Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)
MW-24S	9817.1277	10186.2119	1278.77	5.0	14.5	Shallow	8.45	NA	1270.32
MW-25S	9995.6	10572.35	1272.76			Shallow	10.22	NA	1262.54
MW-25D	9995.46	10565.28	1273.41			Deep	10.88	NA	1262.53
HW-8	9834.664	10312.0885	1277.81	6.0	16.0	Shallow	5.39	NA	1272.42
HW-9	9810.5264	10313.3873	1280.78	6.0	16.0	Shallow	9.44	NA	1271.34
HW-10	9837.2976	9966.7406	1279.55	7.0	17.0	Shallow	NA	NA	NA
RW-1S	9932.3606	10136.0515	1275.81	10.5	16.0	Shallow	6.11	11.50	1269.70
RW-1D	9925.9898	10121.7689	1276.34	32.0	57.0	Deep	9.60	NA	1266.74
RW-2S	9982.9501	10151.7112	1276.33	10.0	15.5	Shallow	6.84	12.70	1269.49
RW-2D	9982.6088	10169.3122	1276.35	27.0	42.0	Deep	9.61	36.90	1266.74
RW-3S	9837.0894	9990.9663	1278.14	9.0	13.5	Shallow	8.45	8.80	NA
RW-5S	9863.4298	10330.7462	1277.29	7.0	10.0	Shallow	NA	NA	NA
RW-6D	9994.04	10367.91	1265.91			Deep	21.09	NA	NA
GP-1S	9942.4384	10203.1085	1278.83	8.0	12.8	Shallow	NA	NA	NA
GP-2S	9899.8775	10204.1632	1278.46	2.6	12.6	Shallow	NA	NA	NA
GP-2D	9899.7358	10207.9807	1278.56	30.0	34.8	Deep	NA	NA	NA
GP-3S	9941.2543	10263.8898	1278.59	4.0	14.0	Shallow	NA	NA	NA
GP-3D	9936.9027	10264.588	1278.62	34.0	38.8	Deep	NA	NA	NA
GP-4S	9940.86*	10154.97*	1278.06	10.8	15.8	Shallow	8.24	NA	1269.82
GP-4D	9942.1743	10152.2232	1277.95	39.0	43.8	Deep	11.29	NA	1266.66
GP-5S	9994.7299	10200.2055	1277.44	7.0	11.8	Shallow	NA	NA	NA
GP-5D	9994.8642	10202.9906	1276.81	36.0	40.8	Deep	NA	NA	NA
PZ-1S	9981.8469	10169.3122	1277.77			Shallow	NA	NA	NA
PZ-1D	9980.4294	10171.2636	1277.64			Deep	NA	NA	NA
PZ-2D	9979.5627	10172.4761	1277.55			Deep	NA	NA	NA
PZ-3D	9942.0414	10199.2937	1278.8	20.0	40.0	Deep	NA	NA	NA
PZ-4D	9946.2326	10195.679	1278.71			Deep	NA	NA	NA
PZ-5S	9897.7381	10330.7876	1276.42	5.5	12.0	Shallow	5.61	NA	1270.81
PZ-5D	9894.5731	10329.7148	1276.4	21.0	42.0	Deep	9.21	NA	1267.19

APPENDIX A-1

2009 Water Level Data
Essex/Hope Site
Jamestown, NY

Well No.	Northing	Easting	Reference Elevation (ft msl)	Depth to Top of Screen	Depth to Bottom of Screen	Screened Zone	September 30, 2009		
							Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)
PZ-6S	9932.2079	10344.4895	1276.61	8.5	13.5	Shallow	9.40	NA	1267.21
PZ-6D	9929.8004	10343.4742	1276.62	25.5	45.5	Deep	10.99	NA	1265.63
PZ-7D	9994.5452	10463.2465	1275.68	22.0	42.0	Deep	10.63	NA	1265.05
PZ-8D	9856.4908	10237.8118	1278.12	21.0	41.0	Deep	NA	NA	NA
PZ-9D	9856.2398	10291.1658	1277.3	19.0	39.0	Deep	NA	NA	NA
PZ-10D	9858.9821	10366.4236	1277.52	26.5	46.5	Deep	NA	NA	NA
PZ-11D	9863.0677	10452.8989	1276.63	21.3	41.3	Deep	NA	NA	NA
VP-5D	9925.1052	10103.0141	1277.88	12.5	34.3	Deep	10.64	NA	1267.24
VP-6S	9928.8123	10423.4628	1276.48	18.3	24.0	Deep upper gravel	10.40	NA	1266.08
VP-6D	9932.5744	10424.1378	1276.6	29.5	39.5	Deep	10.57	NA	1266.03
VP-7D	9758.4881	10337.7133	1278.64	20.4	39.3	Deep	NA	NA	NA
VP-8D	9994.6178	10197.8133	1277.15	20.0	39.0	Deep	NA	NA	NA

Notes:

NM = Not Measure
NA = Not Applicable

RW-4S, RW-5S taken offline in October 2002 for UST Removal.
Wells RW-4S, TW-01, and HW-7 destroyed during UST removal operations.

APPENDIX A-2

Groundwater Extraction System Monitoring Data

APPENDIX A-2

2009 Groundwater Extraction System Monitoring Data
Essex/Hope Site
Jamestown, NY

Date	NPL Area - Shallow WBZ			L.F. Sand WBZ			AST/UST Area - Shallow	Comments
	RW-1S	RW-2S	Total GPM	RW-2D	RW-6D	Total GPM	RW-3S	
	Avg. GPM	Avg. GPM		Avg. GPM	Avg. GPM		Avg. GPM	
01/21/09	0.107	0.215	0.322	0.983	0	0.983	0.044	RW-6D down. RWs offline at 1455 hrs for carbon change out activities.
01/22/09	0.198	0	0.198	2.94	0	2.94	0.073	RWs online at 0847 hrs following carbon change out. RW-2S offline for VFD replacement. RW-6D remain offline.
01/30/09	0.204	0	0.204	2.63	0	2.63	0.091	
02/05/09	0.151	3.30	3.451	2.57	0	2.57	0	RW-2S online at 0937 hrs following VFD replacement.
02/19/09	0.107	2.01	2.117	2.81	0	2.81	0.072	
02/27/09	0.100	1.610	1.71	3.38	0	3.38	0.00004	
03/06/09	0.091	1.94	2.031	3.33	0	3.33	0	
03/20/09	0.038	0.66	0.698	1.06	0	1.06	0.00002	
03/31/09	0.115	1.36	1.475	3.32	0	3.32	0.000	
04/15/09	0.034	0.392	0.426	0.932	0	0.932	0.000	RW-6D online at 0935 hrs following re-development by Nothnagle.
04/29/09	0.014	0.368	0.382	0.704	0.246	0.95	0	
05/14/09	0.093	0.557	0.65	1.89	0.227	2.117	0.005	RWs reset at 1156 hrs. RW-6D down due to VFD fault.
05/18/09	0.202	0.705	0.907	3.06	2.90	5.96	0.011	RW-6D online at 1440 hrs. RWs offline at 1500 hrs for carbon change out activities.
05/20/09	0.242	1.10	1.342	3.23	1.93	5.16	0.023	RWs online at 0931 hrs following carbon change out activities.
05/26/09	0.173	0.294	0.467	2.91	0.454	3.364	0.011	RW-6D offline at 1146 hrs.
06/10/09	0.131	1.02	1.151	2.96	0.001	2.961	0.009	RW-6D restarted at 0935 hrs and offline at 1213 hrs.
06/25/09	0.225	1.49	1.715	0.544	0.00	0.544	0.016	RW-6D online 6/30/09 following replacement of pump motor and removal of 3 feet of pipe line. Pump heavily silted caused motor to go bad.
07/08/09	0.295	1.53	1.825	3.30	0.663	3.963	0.003	
07/13/09	0.339	1.50	1.839	3.77	0.750	4.52	0.028	RWs offline at 0830 hrs. for well development activities and RW-2D acid treatment.

APPENDIX A-2

2009 Groundwater Extraction System Monitoring Data
Essex/Hope Site
Jamestown, NY

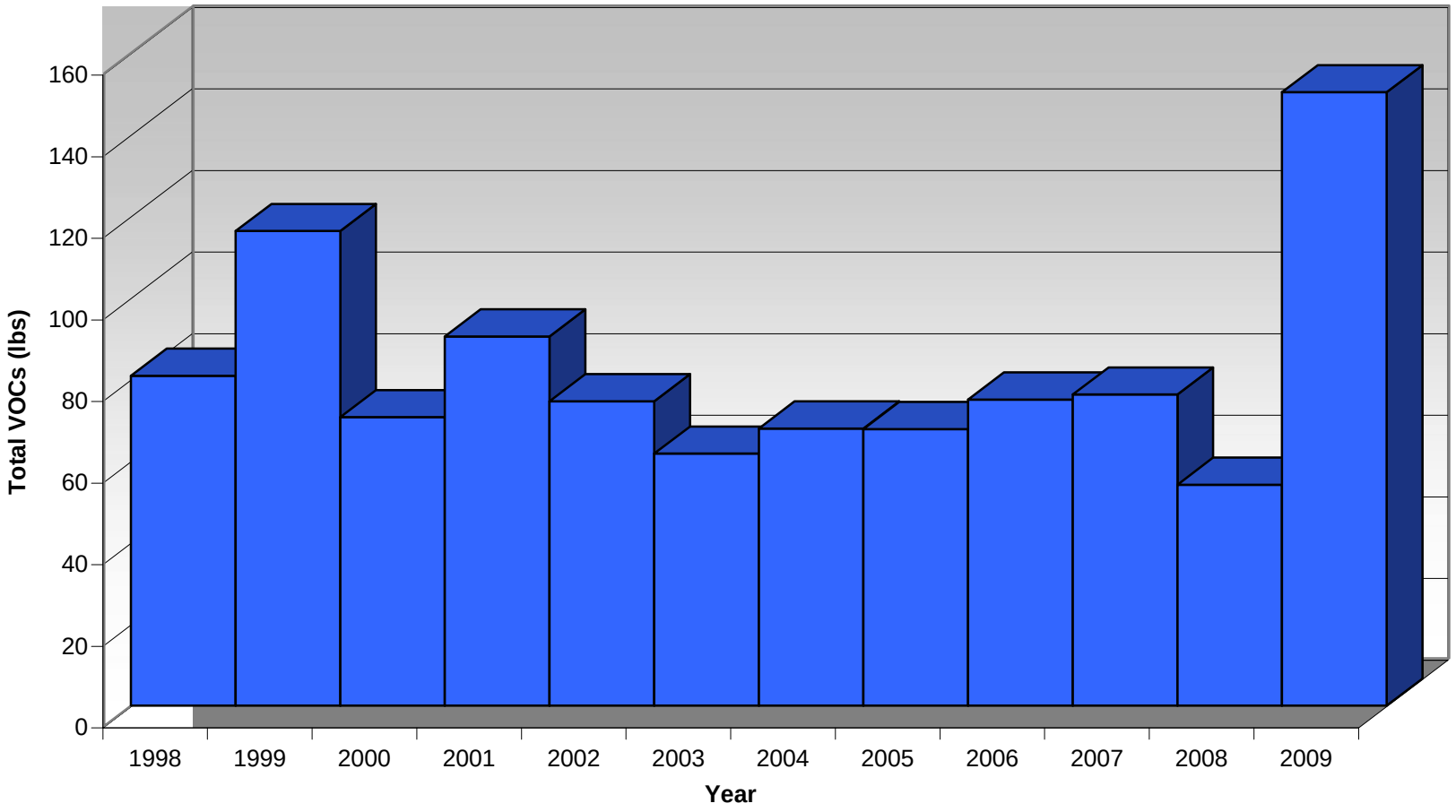
Date	NPL Area - Shallow WBZ			L.F. Sand WBZ			AST/UST Area - Shallow	Comments
	RW-1S Avg. GPM	RW-2S Avg. GPM	Total GPM	RW-2D Avg. GPM	RW-6D Avg. GPM	Total GPM	RW-3S Avg. GPM	
07/16/09	NA	NA	NA	NA	NA	NA	NA	RWs online at 1120 hrs.
07/20/09	0.110	1.10	1.21	1.50	0.633	2.133	0	RWs offline at 1215 for RW-2D development activities; RWs back online at 1545 hrs. RW-2D online at local setting due to probe malfunction.
07/21/09	0.088	0.781	0.869	2.02	0.620	2.64	0.004	RWs offline from 0845 to 0958 from meter cleaning/inspection. RW-6D remain back online at 1119 following pump cleaning/inspection.
07/22/09	0.120	1.150	1.270	1.99	0.952	2.942	0.002	
08/07/09	0.195	1.38	1.575	1.73	0.835	2.565	0	RW-2D reset at 0937 hrs.
08/22/09	0.072	1.22	1.292	1.88	0.902	2.782	0.0001	
09/01/09	0.061	0.701	0.762	2.30	0.464	2.764	0.0001	
09/08/09	NA	NA	NA	2.05	NA	NA	NA	RW-2D offline for approx. 2 hours for level probe repair/reinstall; back online on remote at 1322 hrs.
09/17/09	0.062	0.748	0.810	2.39	0.910	3.300	0.001	
09/29/09	0.016	0.099	0.115	2.10	0.608	2.708	0.001	RWs offline at 1052 hrs due to leak in GAC system pump.
11/06/09	0.002	1.76	1.762	2.69	0.932	3.622	0.001	RWs online 11/3/09 following GAC system pump repair/reinstallation.
11/22/09	0.001	0.330	0.331	0.623	0.200	0.823	0.0001	
11/30/09	0.0004	0.012	0.0124	0.019	0.009	0.028	0.000	System restarted at 1258 hrs.
11/30/09	0.000	1.99	1.99	2.96	0.965	3.925	0.002	RWs offline at 1505 hrs due to leak in GAC system pump.
12/21/09	0.444	1.99	2.43	3.16	offline	3.16	0	RWs online at 1045 hrs following GAC system pump repair/reinstallation. RW-6D remain offline due to heavy silt.
12/22/09	0.030	1.86	1.89	2.780	offline	2.78	0	

APPENDIX A-3

Recovery Well Performance Data

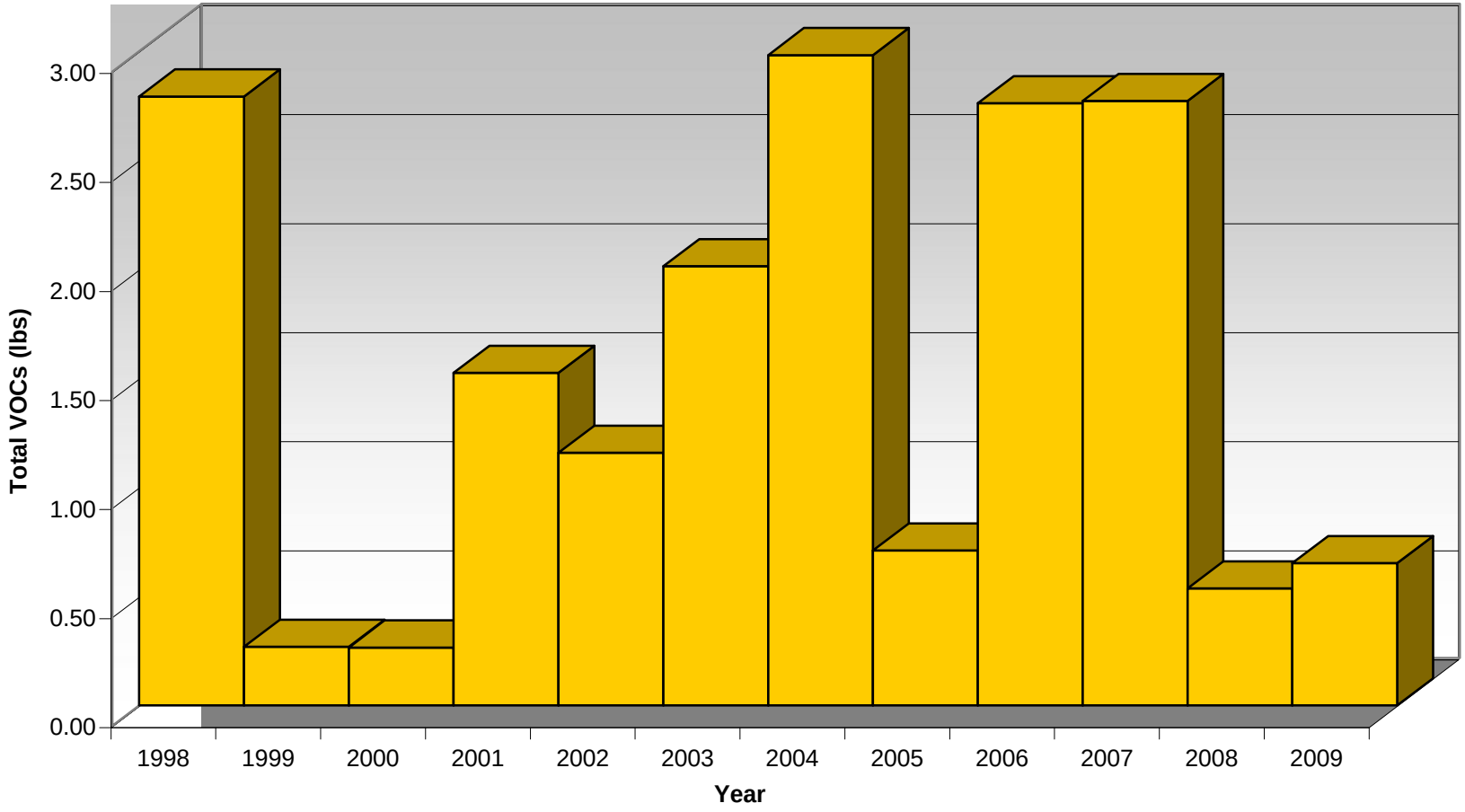
APPENDIX A-3 - Recovery Well Performance Data

TOTAL SITE VOCs MASS REMOVED
Essex/Hope Site
Jamestown, NY



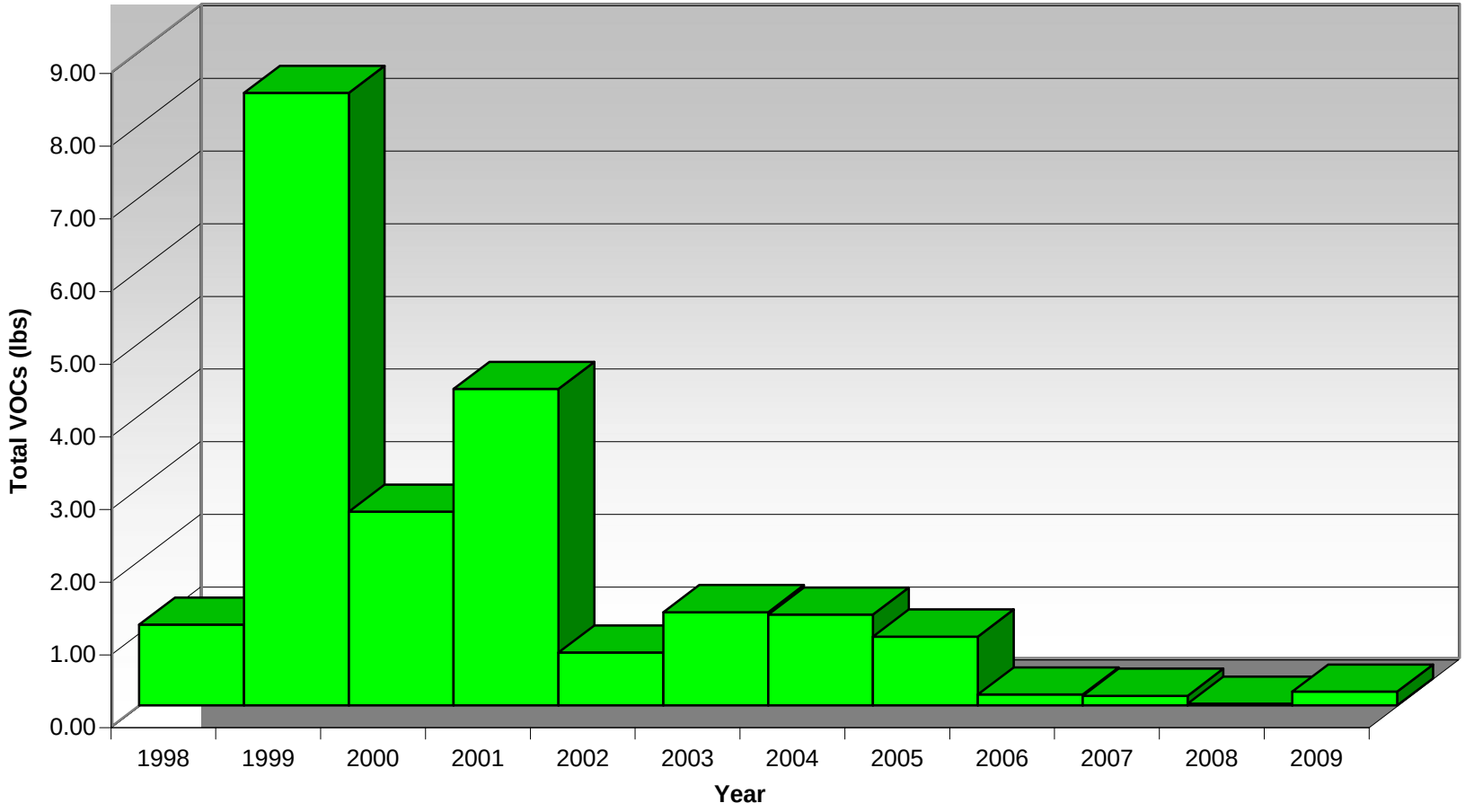
APPENDIX A-3 - Recovery Well Performance Data

RW-1S - Total VOCs Mass Removed
Essex/Hope Site
Jamestown, NY



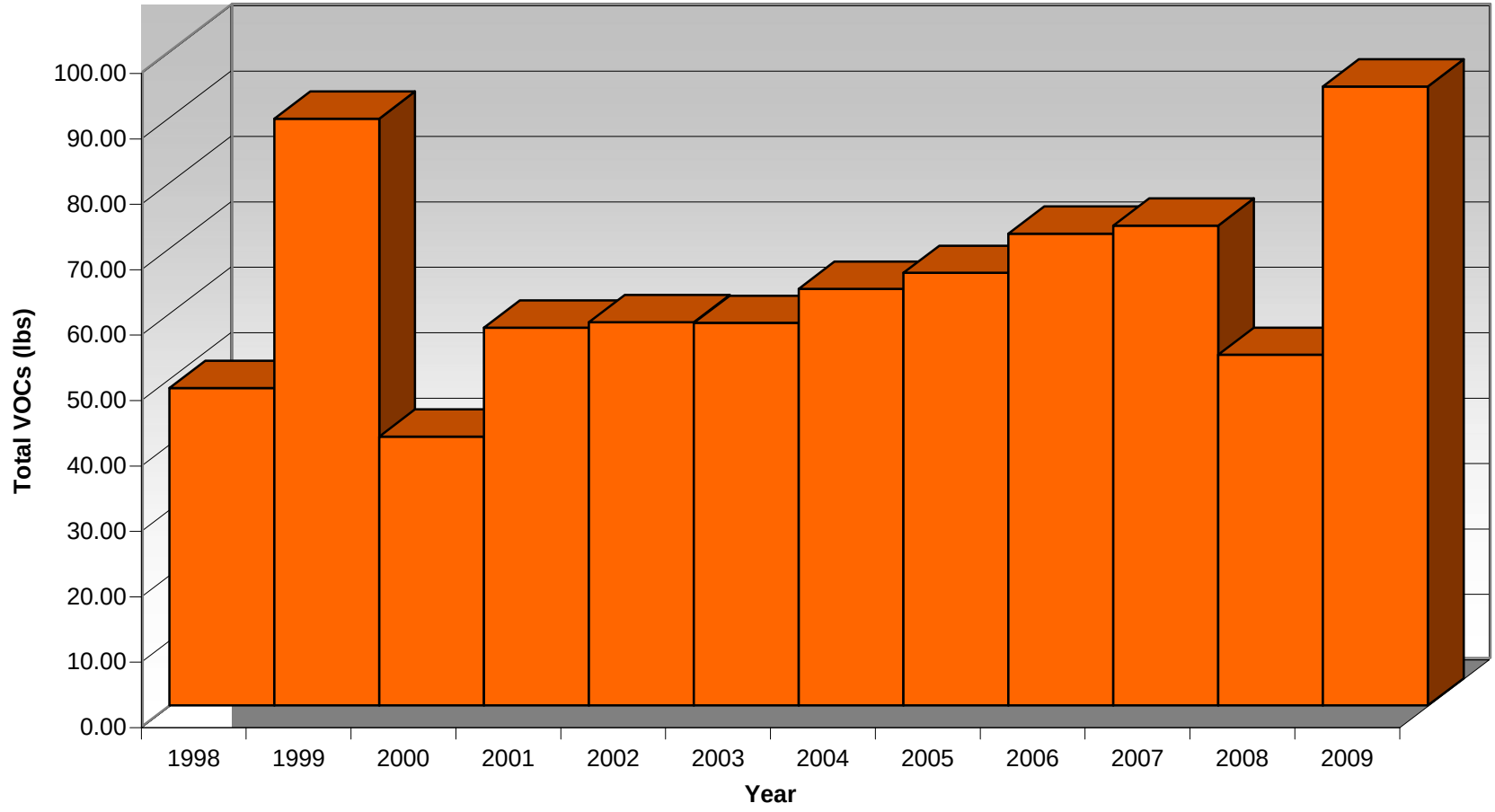
APPENDIX A-3 - Recovery Well Performance Data

RW-2S - Total VOCs Mass Removed
Essex/Hope Site
Jamestown, NY



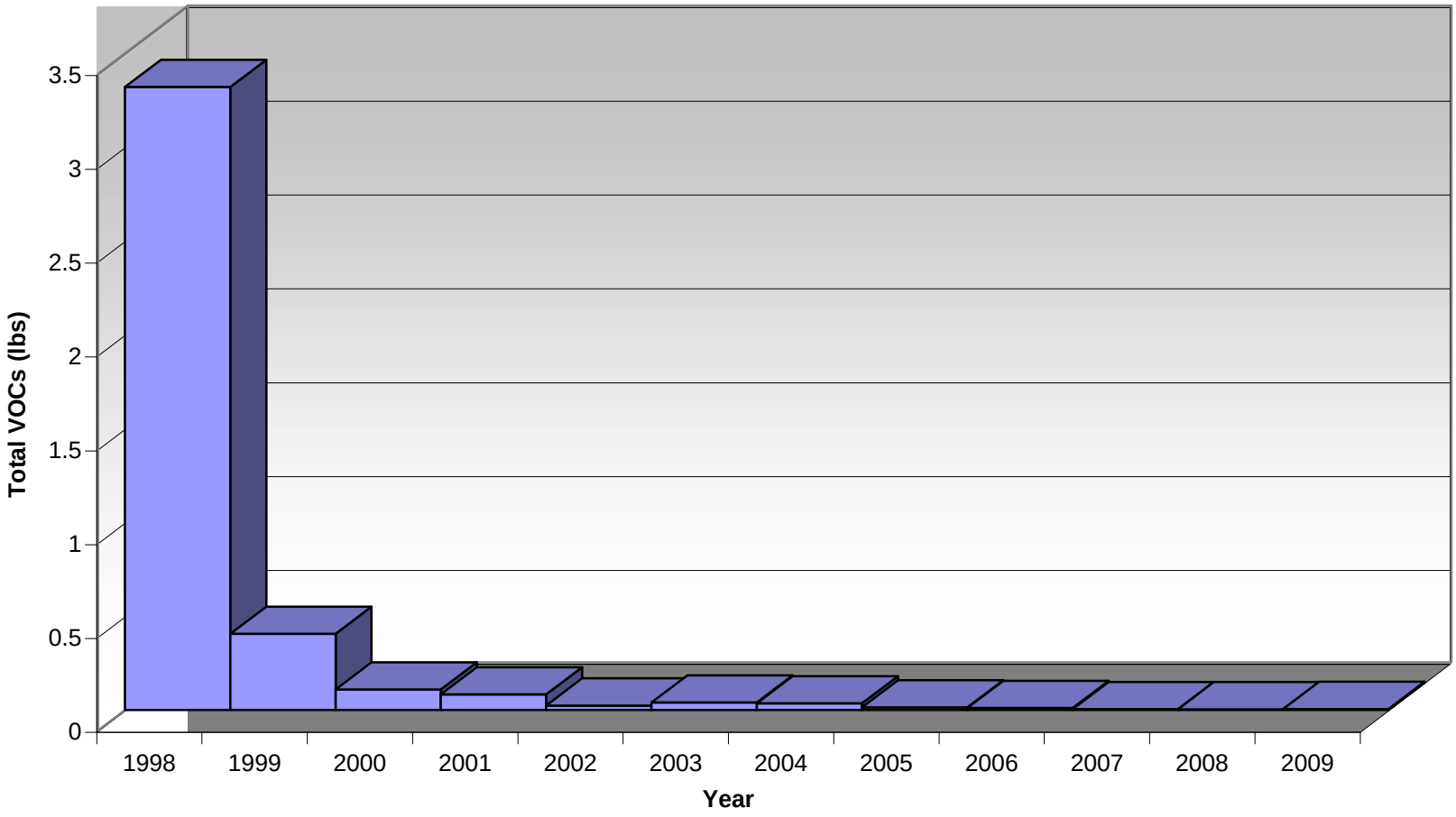
APPENDIX A-3 - Recovery Well Performance Data

RW-2D - Total VOCs Mass Removed
Essex/Hope Site
Jamestown, NY



APPENDIX A-3 - Recovery Well Performance Data

RW-3S - Total VOCs Mass Removed
Essex/Hope Site
Jamestown, NY



APPENDIX B

LABORATORY ANALYTICAL DATA

APPENDIX B-1

2009 SEMI-ANNUAL RECOVERY WELL DATA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

April 15, 2009

Mr. Mark Dowiak
URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

RE: Project: Essex-Hope
Pace Project No.: 307924

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope
Pace Project No.: 307924

Pennsylvania Certification IDs

Wyoming Certification #: 8TMS-Q
Wisconsin/PADEP Certification
West Virginia Certification #: 143
Washington Certification #: C1941
Virginia Certification #: 00112
Virgin Island/PADEP Certification
Utah/NELAC Certification #: ANTE
Texas/NELAC Certification #: T104704188-09 TX
Tennessee Certification #: TN2867
South Dakota Certification
Pennsylvania/NELAC Certification #: 65-282
Oregon/NELAC Certification #: PA200002
North Carolina Certification #: 42706
New York/NELAC Certification #: 10888
New Mexico Certification
New Jersey/NELAC Certification #: PA 051
New Hampshire/NELAC Certification #: 2976
Nevada Certification
Montana Certification #: Cert 0082
Missouri Certification #: 235
Minnesota Certification #: 042-999-425
Michigan/PADEP Certification
Massachusetts Certification #: M-PA1457
Maryland Certification #: 308
Maine Certification #: PA0091
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Kentucky Certification #: 90133
Kansas/NELAC Certification #: E-10358
Iowa Certification #: 391
Indiana/PADEP Certification
Illinois/PADEP Certification
Idaho Certification
Hawaii/PADEP Certification
Guam/PADEP Certification
Georgia Certification #: 968
Florida/NELAC Certification #: E87683
Delaware Certification
Connecticut Certification #: PH 0694
Colorado Certification
California/NELAC Certification #: 04222CA
Arkansas Certification
Arizona Certification #: AZ0734
Alabama Certification #: 41590

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Essex-Hope
Pace Project No.: 307924

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
307924001	**RW-2D**	EPA 8260	EAC	42	PASI-PA
307924002	**RW-2S**	EPA 8260	EAC	42	PASI-PA
307924003	**RW-1S**	EPA 8260	EAC	42	PASI-PA
307924004	**RW-3S**	EPA 8260	EAC	42	PASI-PA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 307924

Sample: RW-2D **Lab ID: 307924001** Collected: 03/31/09 17:00 Received: 04/01/09 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		04/08/09 18:08	67-64-1	
Benzene	**9.6**	ug/L	1.0	1		04/08/09 18:08	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/08/09 18:08	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/08/09 18:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/08/09 18:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/08/09 18:08	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/08/09 18:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/08/09 18:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/08/09 18:08	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/08/09 18:08	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/08/09 18:08	67-66-3	
Chloromethane	**7.3**	ug/L	5.0	1		04/08/09 18:08	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/08/09 18:08	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/08/09 18:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/08/09 18:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/08/09 18:08	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/08/09 18:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/08/09 18:08	107-06-2	
1,1-Dichloroethene	**29.8**	ug/L	5.0	1		04/08/09 18:08	75-35-4	
cis-1,2-Dichloroethene	**5830**	ug/L	200	40		04/08/09 18:35	156-59-2	
trans-1,2-Dichloroethene	**57.7**	ug/L	5.0	1		04/08/09 18:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/08/09 18:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/09 18:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/09 18:08	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/08/09 18:08	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/08/09 18:08	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		04/08/09 18:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/08/09 18:08	108-10-1	
Styrene	ND	ug/L	5.0	1		04/08/09 18:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/09 18:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/09 18:08	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/09 18:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/09 18:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/09 18:08	79-00-5	
Trichloroethene	**2910**	ug/L	200	40		04/08/09 18:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/08/09 18:08	75-69-4	
Vinyl chloride	**929**	ug/L	40.0	40		04/08/09 18:35	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/08/09 18:08	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		04/08/09 18:08	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		04/08/09 18:08	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		04/08/09 18:08	17060-07-0	
Toluene-d8 (S)	89	%	70-130	1		04/08/09 18:08	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 307924

Sample: RW-2S **Lab ID: 307924002** Collected: 03/31/09 17:05 Received: 04/01/09 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		04/08/09 17:14	67-64-1	
Benzene	ND	ug/L	1.0	1		04/08/09 17:14	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/08/09 17:14	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/08/09 17:14	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/08/09 17:14	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/08/09 17:14	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/08/09 17:14	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/08/09 17:14	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/08/09 17:14	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/08/09 17:14	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/08/09 17:14	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/08/09 17:14	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/08/09 17:14	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/08/09 17:14	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/08/09 17:14	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/08/09 17:14	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/08/09 17:14	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/08/09 17:14	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/08/09 17:14	75-35-4	
cis-1,2-Dichloroethene	**8.2**	ug/L	5.0	1		04/08/09 17:14	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/08/09 17:14	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/08/09 17:14	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/09 17:14	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/09 17:14	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/08/09 17:14	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/08/09 17:14	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		04/08/09 17:14	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/08/09 17:14	108-10-1	
Styrene	ND	ug/L	5.0	1		04/08/09 17:14	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/09 17:14	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/09 17:14	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/09 17:14	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/09 17:14	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/09 17:14	79-00-5	
Trichloroethene	**7.8**	ug/L	5.0	1		04/08/09 17:14	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/08/09 17:14	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		04/08/09 17:14	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/08/09 17:14	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		04/08/09 17:14	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		04/08/09 17:14	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		04/08/09 17:14	17060-07-0	
Toluene-d8 (S)	89	%	70-130	1		04/08/09 17:14	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 307924

Sample: RW-1S **Lab ID: 307924003** Collected: 03/31/09 17:15 Received: 04/01/09 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		04/08/09 17:28	67-64-1	
Benzene	**1.0**	ug/L	1.0	1		04/08/09 17:28	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/08/09 17:28	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/08/09 17:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/08/09 17:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/08/09 17:28	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/08/09 17:28	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/08/09 17:28	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/08/09 17:28	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/08/09 17:28	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/08/09 17:28	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/08/09 17:28	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/08/09 17:28	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/08/09 17:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/08/09 17:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/08/09 17:28	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/08/09 17:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/08/09 17:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/08/09 17:28	75-35-4	
cis-1,2-Dichloroethene	**790**	ug/L	100	20		04/14/09 13:52	156-59-2	
trans-1,2-Dichloroethene	**5.2**	ug/L	5.0	1		04/08/09 17:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/08/09 17:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/09 17:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/09 17:28	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/08/09 17:28	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/08/09 17:28	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		04/08/09 17:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/08/09 17:28	108-10-1	
Styrene	ND	ug/L	5.0	1		04/08/09 17:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/09 17:28	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/09 17:28	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/09 17:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/09 17:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/09 17:28	79-00-5	
Trichloroethene	**1330**	ug/L	100	20		04/14/09 13:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/08/09 17:28	75-69-4	
Vinyl chloride	**36.2**	ug/L	1.0	1		04/08/09 17:28	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/08/09 17:28	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		04/08/09 17:28	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		04/08/09 17:28	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		04/08/09 17:28	17060-07-0	
Toluene-d8 (S)	91	%	70-130	1		04/08/09 17:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 307924

Sample: RW-3S **Lab ID: 307924004** Collected: 03/31/09 17:20 Received: 04/01/09 09:45 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		04/08/09 17:41	67-64-1	
Benzene	**34.0**	ug/L	1.0	1		04/08/09 17:41	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/08/09 17:41	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/08/09 17:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/08/09 17:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/08/09 17:41	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/08/09 17:41	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/08/09 17:41	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/08/09 17:41	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/08/09 17:41	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/08/09 17:41	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/08/09 17:41	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/08/09 17:41	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/08/09 17:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/08/09 17:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/08/09 17:41	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/08/09 17:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/08/09 17:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/08/09 17:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/08/09 17:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/08/09 17:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/08/09 17:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/09 17:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/08/09 17:41	10061-02-6	
Ethylbenzene	**7.8**	ug/L	5.0	1		04/08/09 17:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/08/09 17:41	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		04/08/09 17:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/08/09 17:41	108-10-1	
Styrene	ND	ug/L	5.0	1		04/08/09 17:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/08/09 17:41	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/08/09 17:41	127-18-4	
Toluene	ND	ug/L	5.0	1		04/08/09 17:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/08/09 17:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/08/09 17:41	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/08/09 17:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/08/09 17:41	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		04/08/09 17:41	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/08/09 17:41	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		04/08/09 17:41	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		04/08/09 17:41	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		04/08/09 17:41	17060-07-0	
Toluene-d8 (S)	90	%	70-130	1		04/08/09 17:41	2037-26-5	

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QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 307924

QC Batch: MSV/2165 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 307924001, 307924002, 307924004

METHOD BLANK: 45814 Matrix: Water
Associated Lab Samples: 307924001, 307924002, 307924004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/08/09 16:47	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/08/09 16:47	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/08/09 16:47	
1,1-Dichloroethane	ug/L	ND	5.0	04/08/09 16:47	
1,1-Dichloroethene	ug/L	ND	5.0	04/08/09 16:47	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/08/09 16:47	
1,2-Dichloroethane	ug/L	ND	5.0	04/08/09 16:47	
1,2-Dichloropropane	ug/L	ND	5.0	04/08/09 16:47	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/08/09 16:47	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/08/09 16:47	
2-Butanone (MEK)	ug/L	ND	10.0	04/08/09 16:47	
2-Hexanone	ug/L	ND	10.0	04/08/09 16:47	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/08/09 16:47	
Acetone	ug/L	ND	10.0	04/08/09 16:47	
Benzene	ug/L	ND	1.0	04/08/09 16:47	
Bromodichloromethane	ug/L	ND	5.0	04/08/09 16:47	
Bromoform	ug/L	ND	5.0	04/08/09 16:47	
Bromomethane	ug/L	ND	5.0	04/08/09 16:47	
Carbon disulfide	ug/L	ND	5.0	04/08/09 16:47	
Carbon tetrachloride	ug/L	ND	5.0	04/08/09 16:47	
Chlorobenzene	ug/L	ND	5.0	04/08/09 16:47	
Chloroethane	ug/L	ND	5.0	04/08/09 16:47	
Chloroform	ug/L	ND	5.0	04/08/09 16:47	
Chloromethane	ug/L	ND	5.0	04/08/09 16:47	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/08/09 16:47	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/08/09 16:47	
Dibromochloromethane	ug/L	ND	5.0	04/08/09 16:47	
Ethylbenzene	ug/L	ND	5.0	04/08/09 16:47	
m&p-Xylene	ug/L	ND	5.0	04/08/09 16:47	
Methylene Chloride	ug/L	ND	5.0	04/08/09 16:47	
o-Xylene	ug/L	ND	5.0	04/08/09 16:47	
Styrene	ug/L	ND	5.0	04/08/09 16:47	
Tetrachloroethene	ug/L	ND	5.0	04/08/09 16:47	
Toluene	ug/L	ND	5.0	04/08/09 16:47	
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/08/09 16:47	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/08/09 16:47	
Trichloroethene	ug/L	ND	5.0	04/08/09 16:47	
Trichlorofluoromethane	ug/L	ND	5.0	04/08/09 16:47	
Vinyl chloride	ug/L	ND	1.0	04/08/09 16:47	
1,2-Dichloroethane-d4 (S)	%	100	70-130	04/08/09 16:47	
4-Bromofluorobenzene (S)	%	101	70-130	04/08/09 16:47	
Toluene-d8 (S)	%	89	70-130	04/08/09 16:47	

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QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 307924

LABORATORY CONTROL SAMPLE: 45815

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	24.9	125	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.8	104	70-130	
1,1,2-Trichloroethane	ug/L	20	22.0	110	70-130	
1,1-Dichloroethane	ug/L	20	22.9	115	70-130	
1,1-Dichloroethene	ug/L	20	20.7	103	70-130	
1,2-Dichlorobenzene	ug/L	20	21.8	109	70-130	
1,2-Dichloroethane	ug/L	20	22.7	113	70-130	
1,2-Dichloropropane	ug/L	20	20.2	101	70-130	
1,3-Dichlorobenzene	ug/L	20	21.7	109	70-130	
1,4-Dichlorobenzene	ug/L	20	21.1	106	70-130	
2-Butanone (MEK)	ug/L	20	22.3	111	70-130	
2-Hexanone	ug/L	20	19.8	99	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.0	100	70-130	
Acetone	ug/L	20	24.8	124	70-130	
Benzene	ug/L	20	19.5	98	70-130	
Bromodichloromethane	ug/L	20	20.8	104	70-130	
Bromoform	ug/L	20	20.3	101	70-130	
Bromomethane	ug/L	20	38.5	193	70-130	L0
Carbon disulfide	ug/L	20	20.0	100	70-130	
Carbon tetrachloride	ug/L	20	20.7	104	70-130	
Chlorobenzene	ug/L	20	21.4	107	70-130	
Chloroethane	ug/L	20	16.2	81	70-130	
Chloroform	ug/L	20	24.4	122	70-130	
Chloromethane	ug/L	20	21.0	105	70-130	
cis-1,2-Dichloroethene	ug/L	20	23.4	117	70-130	
cis-1,3-Dichloropropene	ug/L	20	20.3	102	70-130	
Dibromochloromethane	ug/L	20	21.5	108	70-130	
Ethylbenzene	ug/L	20	21.1	105	70-130	
m&p-Xylene	ug/L	40	43.5	109	70-130	
Methylene Chloride	ug/L	20	24.3	121	70-130	
o-Xylene	ug/L	20	21.2	106	70-130	
Styrene	ug/L	20	20.9	104	70-130	
Tetrachloroethene	ug/L	20	22.5	112	70-130	
Toluene	ug/L	20	20.8	104	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.9	109	70-130	
trans-1,3-Dichloropropene	ug/L	20	21.5	108	70-130	
Trichloroethene	ug/L	20	20.8	104	70-130	
Trichlorofluoromethane	ug/L	20	19.4	97	70-130	
Vinyl chloride	ug/L	20	19.2	96	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			93	70-130	

Pace Analytical Services, Inc.
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Greensburg, PA 15601
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QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 307924

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 45816 45817

Parameter	Units	307924002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	25.8	28.4	129	142	70-130	10	M0
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.7	20.1	98	101	70-130	2	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.0	22.9	105	114	70-130	9	
1,1-Dichloroethane	ug/L	ND	20	20	23.6	25.1	118	126	70-130	6	
1,1-Dichloroethene	ug/L	ND	20	20	22.7	24.3	114	121	70-130	7	
1,2-Dichlorobenzene	ug/L	ND	20	20	20.0	21.4	100	107	70-130	7	
1,2-Dichloroethane	ug/L	ND	20	20	24.0	25.0	120	125	70-130	4	
1,2-Dichloropropane	ug/L	ND	20	20	19.3	20.9	97	104	70-130	8	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.9	21.4	99	107	70-130	7	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.3	20.9	97	104	70-130	8	
2-Butanone (MEK)	ug/L	ND	20	20	22.9	23.3	115	117	70-130	2	
2-Hexanone	ug/L	ND	20	20	20.2	20.2	101	101	70-130	.4	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	20.5	20.7	102	104	70-130	1	
Acetone	ug/L	ND	20	20	26.0	25.3	130	127	70-130	2	
Benzene	ug/L	ND	20	20	18.8	20.4	94	102	70-130	8	
Bromodichloromethane	ug/L	ND	20	20	19.6	21.3	98	107	70-130	8	
Bromoform	ug/L	ND	20	20	18.2	20.1	91	101	70-130	10	
Bromomethane	ug/L	ND	20	20	27.0	29.6	135	148	70-130	9	M0
Carbon disulfide	ug/L	ND	20	20	21.9	22.2	110	111	70-130	1	
Carbon tetrachloride	ug/L	ND	20	20	19.6	22.3	98	111	70-130	13	
Chlorobenzene	ug/L	ND	20	20	20.4	22.0	102	110	70-130	7	
Chloroethane	ug/L	ND	20	20	19.7	18.8	98	94	70-130	5	
Chloroform	ug/L	ND	20	20	25.1	26.5	126	133	70-130	5	M0
Chloromethane	ug/L	ND	20	20	20.4	19.7	102	99	70-130	3	
cis-1,2-Dichloroethene	ug/L	8.2	20	20	32.7	34.2	122	130	70-130	5	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.6	19.2	88	96	70-130	8	
Dibromochloromethane	ug/L	ND	20	20	19.6	22.1	98	111	70-130	12	
Ethylbenzene	ug/L	ND	20	20	19.9	22.0	100	110	70-130	10	
m&p-Xylene	ug/L	ND	40	40	41.0	45.2	103	113	70-130	10	
Methylene Chloride	ug/L	ND	20	20	24.6	26.5	123	132	70-130	7	M0
o-Xylene	ug/L	ND	20	20	20.0	21.9	100	110	70-130	9	
Styrene	ug/L	ND	20	20	19.4	22.1	97	110	70-130	13	
Tetrachloroethene	ug/L	ND	20	20	21.2	22.5	106	113	70-130	6	
Toluene	ug/L	ND	20	20	20.0	21.3	100	106	70-130	6	
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.8	24.0	114	120	70-130	5	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.7	20.5	94	103	70-130	9	
Trichloroethene	ug/L	7.8	20	20	26.2	28.4	92	103	70-130	8	
Trichlorofluoromethane	ug/L	ND	20	20	23.0	24.0	115	120	70-130	4	
Vinyl chloride	ug/L	ND	20	20	22.7	22.8	109	110	70-130	.7	
1,2-Dichloroethane-d4 (S)	%						109	104	70-130		
4-Bromofluorobenzene (S)	%						96	98	70-130		
Toluene-d8 (S)	%						90	89	70-130		

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 307924

QC Batch: MSV/2166 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 307924003

METHOD BLANK: 45818 Matrix: Water
Associated Lab Samples: 307924003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/08/09 17:01	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/08/09 17:01	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/08/09 17:01	
1,1-Dichloroethane	ug/L	ND	5.0	04/08/09 17:01	
1,1-Dichloroethene	ug/L	ND	5.0	04/08/09 17:01	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/08/09 17:01	
1,2-Dichloroethane	ug/L	ND	5.0	04/08/09 17:01	
1,2-Dichloropropane	ug/L	ND	5.0	04/08/09 17:01	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/08/09 17:01	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/08/09 17:01	
2-Butanone (MEK)	ug/L	ND	10.0	04/08/09 17:01	
2-Hexanone	ug/L	ND	10.0	04/08/09 17:01	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/08/09 17:01	
Acetone	ug/L	ND	10.0	04/08/09 17:01	
Benzene	ug/L	ND	1.0	04/08/09 17:01	
Bromodichloromethane	ug/L	ND	5.0	04/08/09 17:01	
Bromoform	ug/L	ND	5.0	04/08/09 17:01	
Bromomethane	ug/L	ND	5.0	04/08/09 17:01	
Carbon disulfide	ug/L	ND	5.0	04/08/09 17:01	
Carbon tetrachloride	ug/L	ND	5.0	04/08/09 17:01	
Chlorobenzene	ug/L	ND	5.0	04/08/09 17:01	
Chloroethane	ug/L	ND	5.0	04/08/09 17:01	
Chloroform	ug/L	ND	5.0	04/08/09 17:01	
Chloromethane	ug/L	ND	5.0	04/08/09 17:01	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/08/09 17:01	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/08/09 17:01	
Dibromochloromethane	ug/L	ND	5.0	04/08/09 17:01	
Ethylbenzene	ug/L	ND	5.0	04/08/09 17:01	
m&p-Xylene	ug/L	ND	5.0	04/08/09 17:01	
Methylene Chloride	ug/L	ND	5.0	04/08/09 17:01	
o-Xylene	ug/L	ND	5.0	04/08/09 17:01	
Styrene	ug/L	ND	5.0	04/08/09 17:01	
Tetrachloroethene	ug/L	ND	5.0	04/08/09 17:01	
Toluene	ug/L	ND	5.0	04/08/09 17:01	
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/08/09 17:01	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/08/09 17:01	
Trichloroethene	ug/L	ND	5.0	04/08/09 17:01	
Trichlorofluoromethane	ug/L	ND	5.0	04/08/09 17:01	
Vinyl chloride	ug/L	ND	1.0	04/08/09 17:01	
1,2-Dichloroethane-d4 (S)	%	103	70-130	04/08/09 17:01	
4-Bromofluorobenzene (S)	%	98	70-130	04/08/09 17:01	
Toluene-d8 (S)	%	90	70-130	04/08/09 17:01	

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QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 307924

LABORATORY CONTROL SAMPLE: 45819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	25.9	129	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.8	104	70-130	
1,1,2-Trichloroethane	ug/L	20	22.1	111	70-130	
1,1-Dichloroethane	ug/L	20	22.7	114	70-130	
1,1-Dichloroethene	ug/L	20	23.1	115	70-130	
1,2-Dichlorobenzene	ug/L	20	22.0	110	70-130	
1,2-Dichloroethane	ug/L	20	23.7	119	70-130	
1,2-Dichloropropane	ug/L	20	20.0	100	70-130	
1,3-Dichlorobenzene	ug/L	20	21.9	110	70-130	
1,4-Dichlorobenzene	ug/L	20	21.6	108	70-130	
2-Butanone (MEK)	ug/L	20	23.2	116	70-130	
2-Hexanone	ug/L	20	20.1	101	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.8	104	70-130	
Acetone	ug/L	20	27.1	135	70-130	L0
Benzene	ug/L	20	19.9	100	70-130	
Bromodichloromethane	ug/L	20	20.0	100	70-130	
Bromoform	ug/L	20	20.6	103	70-130	
Bromomethane	ug/L	20	38.8	194	70-130	L0
Carbon disulfide	ug/L	20	22.7	113	70-130	
Carbon tetrachloride	ug/L	20	20.1	101	70-130	
Chlorobenzene	ug/L	20	21.7	109	70-130	
Chloroethane	ug/L	20	23.0	115	70-130	
Chloroform	ug/L	20	25.1	126	70-130	
Chloromethane	ug/L	20	21.2	106	70-130	
cis-1,2-Dichloroethene	ug/L	20	24.3	122	70-130	
cis-1,3-Dichloropropene	ug/L	20	20.2	101	70-130	
Dibromochloromethane	ug/L	20	21.8	109	70-130	
Ethylbenzene	ug/L	20	21.2	106	70-130	
m&p-Xylene	ug/L	40	44.1	110	70-130	
Methylene Chloride	ug/L	20	24.9	125	70-130	
o-Xylene	ug/L	20	21.2	106	70-130	
Styrene	ug/L	20	21.9	110	70-130	
Tetrachloroethene	ug/L	20	22.1	110	70-130	
Toluene	ug/L	20	20.9	104	70-130	
trans-1,2-Dichloroethene	ug/L	20	23.8	119	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.8	104	70-130	
Trichloroethene	ug/L	20	20.8	104	70-130	
Trichlorofluoromethane	ug/L	20	12.2	61	70-130	L0
Vinyl chloride	ug/L	20	19.4	97	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			92	70-130	

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QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 307924

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 45905 45906

Parameter	Units	308087001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	25.2	24.9	126	124	70-130	1	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.9	19.0	99	95	70-130	5	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.2	20.8	106	104	70-130	2	
1,1-Dichloroethane	ug/L	ND	20	20	24.3	26.8	122	134	70-130	10	M0
1,1-Dichloroethene	ug/L	ND	20	20	25.0	25.7	122	126	70-130	3	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.7	20.2	99	101	70-130	2	
1,2-Dichloroethane	ug/L	ND	20	20	24.4	23.6	122	118	70-130	3	
1,2-Dichloropropane	ug/L	ND	20	20	19.5	18.9	98	95	70-130	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.8	20.2	99	101	70-130	2	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.3	20.0	96	100	70-130	3	
2-Butanone (MEK)	ug/L	ND	20	20	23.0	22.6	115	113	70-130	2	
2-Hexanone	ug/L	ND	20	20	19.2	18.6	96	93	70-130	3	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	20.4	19.7	102	99	70-130	3	
Acetone	ug/L	ND	20	20	28.8	27.6	144	138	70-130	4	M0
Benzene	ug/L	ND	20	20	19.0	19.0	95	95	70-130	.3	
Bromodichloromethane	ug/L	ND	20	20	18.5	18.8	93	94	70-130	1	
Bromoform	ug/L	ND	20	20	17.4	18.4	87	92	70-130	6	
Bromomethane	ug/L	ND	20	20	25.8	32.0	129	160	70-130	21	M0
Carbon disulfide	ug/L	ND	20	20	23.9	23.7	120	118	70-130	1	
Carbon tetrachloride	ug/L	ND	20	20	17.7	19.4	88	97	70-130	9	
Chlorobenzene	ug/L	ND	20	20	20.2	20.8	101	104	70-130	3	
Chloroethane	ug/L	ND	20	20	26.2	27.6	131	138	70-130	5	M0
Chloroform	ug/L	ND	20	20	26.2	30.2	116	137	70-130	14	M0
Chloromethane	ug/L	ND	20	20	21.9	24.0	109	120	70-130	9	
cis-1,2-Dichloroethene	ug/L	85.0	20	20	105	101	100	80	70-130	4	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.7	17.9	89	90	70-130	1	
Dibromochloromethane	ug/L	ND	20	20	19.4	20.2	97	101	70-130	5	
Ethylbenzene	ug/L	ND	20	20	20.0	20.5	100	103	70-130	3	
m&p-Xylene	ug/L	ND	40	40	41.4	42.2	104	106	70-130	2	
Methylene Chloride	ug/L	ND	20	20	25.2	24.8	126	124	70-130	2	
o-Xylene	ug/L	ND	20	20	19.7	19.9	98	100	70-130	1	
Styrene	ug/L	ND	20	20	15.5	17.6	78	88	70-130	13	
Tetrachloroethene	ug/L	77.1	20	20	89.9	93.0	64	79	70-130	3	M0
Toluene	ug/L	ND	20	20	19.8	20.0	99	100	70-130	1	
trans-1,2-Dichloroethene	ug/L	ND	20	20	26.2	26.7	123	125	70-130	2	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.9	18.9	94	95	70-130	.4	
Trichloroethene	ug/L	46.8	20	20	63.0	65.1	81	92	70-130	3	
Trichlorofluoromethane	ug/L	ND	20	20	9.8	16.1	49	80	70-130	49	M0
Vinyl chloride	ug/L	ND	20	20	21.6	22.3	108	112	70-130	3	
1,2-Dichloroethane-d4 (S)	%						107	106	70-130		
4-Bromofluorobenzene (S)	%						98	99	70-130		
Toluene-d8 (S)	%						91	88	70-130		

Pace Analytical Services, Inc.
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QUALIFIERS

Project: Essex-Hope
Pace Project No.: 307924

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M0	Matrix spike recovery was outside laboratory control limits.

Pace Analytical Services, Inc.
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(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope
Pace Project No.: 307924

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
307924001	**RW-2D**	EPA 8260	MSV/2165		
307924002	**RW-2S**	EPA 8260	MSV/2165		
307924004	**RW-3S**	EPA 8260	MSV/2165		
307924003	**RW-1S**	EPA 8260	MSV/2166		

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Pace Analytical

Page: 1 of 1

1041388

Section A Required Client Information:

Company: URS CORP

Address: FOSTER PLAZA 4, STE 300 501 HOLIDAY DR. PITTSBURGH, PA 15220

Email To:

Phone: 412-503-4700 Fax: 412-503-4701

Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK

Copy To: VALERIE SIBETO

Purchase Order No.: 41568543

Project Name: ESI EXHUME SEMI-ANNUAL RW

Project Number: 41528453.10000

Section C Invoice Information:

Attention:

Company Name:

Address:

Pace Quote Reference:

Pace Project Manager:

Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ Other

SITE LOCATION ☐ GA ☐ IL ☐ IN ☐ MI ☐ MN ☐ NC ☐ OH ☐ SC ☐ WI ☐ OTHER NY

Section D Required Client Information

SAMPLE ID

One Character per box. (A-Z, 0-9 / ,-) Samples IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Filtered (Y/N)	Requested Analysis: VOC 8260	Residual Chlorine (Y/N)	Pace Project Number / Lab I.D
1	RW-2D	WT	G			3.31.09	1700		3				X					N	X	N	001
2	RW-2S						1705		3				X					N	X	N	002
3	RW-1S						1715		3				X					N	X	N	003
4	RW-3S	V	V			V	1720		3				X					N	X	N	004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Additional Comments:

2009 SEMI-ANNUAL RW SAMPLING

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] URS	3.31.09	1745	Fed Ex	3.31.09	1745
Fed Ex			Courier	4.1.09	9:45

SAMPLE CONDITION

Temp in °C	Received on Ice Y/N	Custody Sealed Cooler Y/N	Samples Intact Y/N
4.7	N	N	N
	Y/N	Y/N	Y/N
	Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM / DD / YY): 3.31.09

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 307924

Courier: (Fed Ex) ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8656445 39327

Custody Seal on Cooler/Box Present: ☐ yes (no) Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: (Bubble Wrap) ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used (3) 4 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 4.7 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: dlw 4-1

Temp should be above freezing to 6°C Comments:

Chain of Custody Present:	(Yes) ☐No ☐N/A	1.
Chain of Custody Filled Out:	(Yes) ☐No ☐N/A	2.
Chain of Custody Relinquished:	(Yes) ☐No ☐N/A	3.
Sampler Name & Signature on COC:	(Yes) ☐No ☐N/A	4.
Samples Arrived within Hold Time:	(Yes) ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes (No) ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes (No) ☐N/A	7.
Sufficient Volume:	(Yes) ☐No ☐N/A	8.
Correct Containers Used:	(Yes) ☐No ☐N/A	9.
-Pace Containers Used:	(Yes) ☐No ☐N/A	
Containers Intact:	(Yes) ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes (No) ☐N/A	11.
Sample Labels match COC:	(Yes) ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	(Yes) ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	(Yes) ☐No ☐N/A	
exceptions: (VOA) coliform, TOC, O&G, WI-DRO (water)	(Yes) ☐No	Initial when completed dlw / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No (N/A)	14.
Headspace in VOA Vials (>6mm):	☐Yes (No) ☐N/A	15.
Trip Blank Present:	☐Yes (No) ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Raelyn E Sylvester **Date:** 4/1/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

May 07, 2009

Mr. Mark Dowiak
URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

RE: Project: Essex-Hope 41568453
Pace Project No.: 309303

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on April 30, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope 41568453
Pace Project No.: 309303

Pennsylvania Certification IDs

North Carolina Certification #: 42706
New York/NELAC Certification #: 10888
New Mexico Certification
New Jersey/NELAC Certification #: PA 051
New Hampshire/NELAC Certification #: 2976
Nevada Certification
Montana Certification #: Cert 0082
Missouri Certification #: 235
Minnesota Certification #: 042-999-425
Michigan/PADEP Certification
Massachusetts Certification #: M-PA1457
Maryland Certification #: 308
Maine Certification #: PA0091
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Kentucky Certification #: 90133
Kansas/NELAC Certification #: E-10358
Iowa Certification #: 391
Indiana/PADEP Certification
Illinois/PADEP Certification
Idaho Certification
Hawaii/PADEP Certification
Guam/PADEP Certification
Georgia Certification #: 968
Florida/NELAC Certification #: E87683
Delaware Certification
Connecticut Certification #: PH 0694
Colorado Certification
California/NELAC Certification #: 04222CA
Arkansas Certification
Arizona Certification #: AZ0734
Alabama Certification #: 41590
Wyoming Certification #: 8TMS-Q
Wisconsin/PADEP Certification
West Virginia Certification #: 143
Washington Certification #: C1941
Virginia Certification #: 00112
Virgin Island/PADEP Certification
Utah/NELAC Certification #: ANTE
Texas/NELAC Certification #: T104704188-09 TX
Tennessee Certification #: TN2867
South Dakota Certification
Puerto Rico Certification #: PA01457
Pennsylvania/NELAC Certification #: 65-282
Oregon/NELAC Certification #: PA200002

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SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568453
Pace Project No.: 309303

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
309303001	**RW-6D**	EPA 8260	JAS	42	PASI-PA

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope 41568453
Pace Project No.: 309303

Sample: RW-6D **Lab ID: 309303001** Collected: 04/29/09 12:30 Received: 04/30/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**60.8**	ug/L	10.0	1		05/01/09 23:18	67-64-1	
Benzene	**62.8**	ug/L	1.0	1		05/01/09 23:18	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/01/09 23:18	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/01/09 23:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/01/09 23:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/01/09 23:18	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/01/09 23:18	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/01/09 23:18	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/01/09 23:18	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/01/09 23:18	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/01/09 23:18	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/01/09 23:18	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/01/09 23:18	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/01/09 23:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/01/09 23:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/01/09 23:18	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/01/09 23:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/01/09 23:18	107-06-2	
1,1-Dichloroethene	**60.5**	ug/L	5.0	1		05/01/09 23:18	75-35-4	
cis-1,2-Dichloroethene	**7170**	ug/L	200	40		05/05/09 21:47	156-59-2	
trans-1,2-Dichloroethene	**87.9**	ug/L	5.0	1		05/01/09 23:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/01/09 23:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/01/09 23:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/01/09 23:18	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/01/09 23:18	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/01/09 23:18	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		05/01/09 23:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/01/09 23:18	108-10-1	
Styrene	ND	ug/L	5.0	1		05/01/09 23:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/01/09 23:18	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/01/09 23:18	127-18-4	
Toluene	ND	ug/L	5.0	1		05/01/09 23:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/01/09 23:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/01/09 23:18	79-00-5	
Trichloroethene	**8360**	ug/L	200	40		05/05/09 21:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/01/09 23:18	75-69-4	
Vinyl chloride	**1010**	ug/L	40.0	40		05/05/09 21:47	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/01/09 23:18	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		05/01/09 23:18	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		05/01/09 23:18	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		05/01/09 23:18	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		05/01/09 23:18	2037-26-5	

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: Essex-Hope 41568453
Pace Project No.: 309303

QC Batch: MSV/2396 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 309303001

METHOD BLANK: 52629 Matrix: Water
Associated Lab Samples: 309303001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	05/01/09 17:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/01/09 17:07	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/01/09 17:07	
1,1-Dichloroethane	ug/L	ND	5.0	05/01/09 17:07	
1,1-Dichloroethene	ug/L	ND	5.0	05/01/09 17:07	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/01/09 17:07	
1,2-Dichloroethane	ug/L	ND	5.0	05/01/09 17:07	
1,2-Dichloropropane	ug/L	ND	5.0	05/01/09 17:07	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/01/09 17:07	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/01/09 17:07	
2-Butanone (MEK)	ug/L	ND	10.0	05/01/09 17:07	
2-Hexanone	ug/L	ND	10.0	05/01/09 17:07	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/01/09 17:07	
Acetone	ug/L	ND	10.0	05/01/09 17:07	
Benzene	ug/L	ND	1.0	05/01/09 17:07	
Bromodichloromethane	ug/L	ND	5.0	05/01/09 17:07	
Bromoform	ug/L	ND	5.0	05/01/09 17:07	
Bromomethane	ug/L	ND	5.0	05/01/09 17:07	
Carbon disulfide	ug/L	ND	5.0	05/01/09 17:07	
Carbon tetrachloride	ug/L	ND	5.0	05/01/09 17:07	
Chlorobenzene	ug/L	ND	5.0	05/01/09 17:07	
Chloroethane	ug/L	ND	5.0	05/01/09 17:07	
Chloroform	ug/L	ND	5.0	05/01/09 17:07	
Chloromethane	ug/L	ND	5.0	05/01/09 17:07	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/01/09 17:07	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/01/09 17:07	
Dibromochloromethane	ug/L	ND	5.0	05/01/09 17:07	
Ethylbenzene	ug/L	ND	5.0	05/01/09 17:07	
m&p-Xylene	ug/L	ND	5.0	05/01/09 17:07	
Methylene Chloride	ug/L	ND	5.0	05/01/09 17:07	
o-Xylene	ug/L	ND	5.0	05/01/09 17:07	
Styrene	ug/L	ND	5.0	05/01/09 17:07	
Tetrachloroethene	ug/L	ND	5.0	05/01/09 17:07	
Toluene	ug/L	ND	5.0	05/01/09 17:07	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/01/09 17:07	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/01/09 17:07	
Trichloroethene	ug/L	ND	5.0	05/01/09 17:07	
Trichlorofluoromethane	ug/L	ND	5.0	05/01/09 17:07	
Vinyl chloride	ug/L	ND	1.0	05/01/09 17:07	
1,2-Dichloroethane-d4 (S)	%	108	70-130	05/01/09 17:07	
4-Bromofluorobenzene (S)	%	97	70-130	05/01/09 17:07	
Toluene-d8 (S)	%	98	70-130	05/01/09 17:07	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453
Pace Project No.: 309303

LABORATORY CONTROL SAMPLE: 52630

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	23.0	115	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	70-130	
1,1,2-Trichloroethane	ug/L	20	21.1	106	70-130	
1,1-Dichloroethane	ug/L	20	21.2	106	70-130	
1,1-Dichloroethene	ug/L	20	20.0	100	70-130	
1,2-Dichlorobenzene	ug/L	20	21.0	105	70-130	
1,2-Dichloroethane	ug/L	20	21.7	109	70-130	
1,2-Dichloropropane	ug/L	20	20.3	101	70-130	
1,3-Dichlorobenzene	ug/L	20	20.9	105	70-130	
1,4-Dichlorobenzene	ug/L	20	20.8	104	70-130	
2-Butanone (MEK)	ug/L	20	20.3	102	70-130	
2-Hexanone	ug/L	20	19.7	99	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	21.4	107	70-130	
Acetone	ug/L	20	24.5	122	70-130	
Benzene	ug/L	20	18.9	94	70-130	
Bromodichloromethane	ug/L	20	21.4	107	70-130	
Bromoform	ug/L	20	20.3	101	70-130	
Bromomethane	ug/L	20	29.5	147	70-130	L0
Carbon disulfide	ug/L	20	31.9	160	70-130	L0
Carbon tetrachloride	ug/L	20	22.6	113	70-130	
Chlorobenzene	ug/L	20	20.6	103	70-130	
Chloroethane	ug/L	20	20.1	101	70-130	
Chloroform	ug/L	20	22.1	111	70-130	
Chloromethane	ug/L	20	16.2	81	70-130	
cis-1,2-Dichloroethene	ug/L	20	22.0	110	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.9	100	70-130	
Dibromochloromethane	ug/L	20	21.4	107	70-130	
Ethylbenzene	ug/L	20	20.1	100	70-130	
m&p-Xylene	ug/L	40	39.4	98	70-130	
Methylene Chloride	ug/L	20	20.8	104	70-130	
o-Xylene	ug/L	20	19.2	96	70-130	
Styrene	ug/L	20	19.4	97	70-130	
Tetrachloroethene	ug/L	20	20.8	104	70-130	
Toluene	ug/L	20	19.8	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.0	105	70-130	
trans-1,3-Dichloropropene	ug/L	20	21.7	109	70-130	
Trichloroethene	ug/L	20	20.2	101	70-130	
Trichlorofluoromethane	ug/L	20	21.8	109	70-130	
Vinyl chloride	ug/L	20	18.2	91	70-130	
1,2-Dichloroethane-d4 (S)	%			111	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			96	70-130	

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QUALIFIERS

Project: Essex-Hope 41568453
Pace Project No.: 309303

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568453
Pace Project No.: 309303

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
309303001	**RW-6D**	EPA 8260	MSV/2396		

Pace Analytical®

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

928452

Section A
Required Client Information:

Company: URS CORP
Address: Foster Plaza 4 501 Holiday Dr. Suite 300
Pittsburgh PA 15220
Email To:
Phone: 412-503-4700
Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B
Required Project Information:

Report To: Mark Dowiak
Copy To: ~~[struck out]~~ (V)
Valerie Sibeto
Purchase Order No.: 41560453
Project Name: Esso/Utopia
Project Number: ~~[struck out]~~ (V) 41560453

Section C
Invoice Information:

Attention: Mark Dowiak
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ Other____

SITE LOCATION: ☐GA ☐IL ☐IN ☐MI ☐MN ☐NC ☐OH ☐SC ☐WI ☐OTHER NY

Section D Required Client Information

SAMPLE ID
One Character per box.
(A-Z, 0-9 / ,-)
Samples IDs MUST BE UNIQUE

Valid Matrix Codes MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Filtered (Y/N)
Requested Analysis: VOCs 8260

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	VOCs 8260	Residual Chlorine (Y/N)	Pace Project Number 309303 Lab I.D.
1	RW-6D	WT	G	—	—	4.29.09	1230		3				X					X		001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Additional Comments:
SEMI-ANNUAL RW SAMPLING (ADD TO MARCH RESULTS).

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
Valerie Sibeto / URS	4.29.09	1250	Fed Ex	4.29.09	1250		Y/N	Y/N	Y/N
			Samantha Bayne	4/30/09	0930	6.8	(Y)/N	(Y)/N	(Y)/N
							Y/N	Y/N	Y/N
							Y/N	Y/N	Y/N

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: [signature]
DATE Signed (MM / DD / YY): 4.29.09

SEE REVERSE SIDE FOR INSTRUCTIONS

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 309303

Courier: [X] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other _____

Tracking #: 8656 4453 9259

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: [ ] yes [X] no Seals intact: [ ] yes [ ] no

Packing Material: [X] Bubble Wrap [ ] Bubble Bags [ ] None [ ] Other _____

Thermometer Used 3 (4) Type of Ice: (Wet) Blue None [X] Samples on ice, cooling process has begun

Cooler Temperature 6.8 Biological Tissue is Frozen: Yes No

Date and initials of person examining contents: SMB 4/30/09

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	[X] Yes [ ] No [ ] N/A	1.
Chain of Custody Filled Out:	[X] Yes [ ] No [ ] N/A	2.
Chain of Custody Relinquished:	[X] Yes [ ] No [ ] N/A	3.
Sampler Name & Signature on COC:	[X] Yes [ ] No [ ] N/A	4.
Samples Arrived within Hold Time:	[X] Yes [ ] No [ ] N/A	5.
Short Hold Time Analysis (<72hr):	[ ] Yes [X] No [ ] N/A	6.
Rush Turn Around Time Requested:	[ ] Yes [X] No [ ] N/A	7.
Sufficient Volume:	[X] Yes [ ] No [ ] N/A	8.
Correct Containers Used:	[X] Yes [ ] No [ ] N/A	9.
-Pace Containers Used:	[X] Yes [ ] No [ ] N/A	
Containers Intact:	[X] Yes [ ] No [ ] N/A	10.
Filtered volume received for Dissolved tests	[ ] Yes [ ] No [X] N/A	11.
Sample Labels match COC:	[X] Yes [ ] No [ ] N/A	12.
-Includes date/time/ID/Analysis Matrix: Ag		
All containers needing preservation have been checked.	[ ] Yes [ ] No [X] N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	[ ] Yes [ ] No [X] N/A	
exceptions: (VOA), coliform, TOC, O&G, WI-DRO (water)	[X] Yes [ ] No	Initial when completed: SMB Lot # of added preservative
Samples checked for dechlorination:	[ ] Yes [ ] No [X] N/A	14.
Headspace in VOA Vials (>6mm):	[ ] Yes [X] No [ ] N/A	15.
Trip Blank Present:	[ ] Yes [X] No [ ] N/A	16.
Trip Blank Custody Seals Present	[ ] Yes [ ] No [X] N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Raelyn Sylvester **Date:** 4/30/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 06, 2009

Mr. Mark Dowiak
URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

RE: Project: Essex-Hope 41568453.10000
Pace Project No.: 3016231

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on October 01, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3016231

Pennsylvania Certification IDs

Wyoming Certification #: 8TMS-Q
Wisconsin/PADEP Certification
West Virginia Certification #: 143
Washington Certification #: C1941
Virginia Certification #: 00112
Virgin Island/PADEP Certification
Utah/NELAC Certification #: ANTE
Texas/NELAC Certification #: T104704188-09 TX
Tennessee Certification #: TN2867
South Dakota Certification
Puerto Rico Certification #: PA01457
Pennsylvania/NELAC Certification #: 65-282
Oregon/NELAC Certification #: PA200002
North Carolina Certification #: 42706
New York/NELAC Certification #: 10888
New Mexico Certification
New Jersey/NELAC Certification #: PA 051
New Hampshire/NELAC Certification #: 2976
Nevada Certification
Montana Certification #: Cert 0082
Missouri Certification #: 235
Minnesota Certification #: 042-999-425
Michigan/PADEP Certification
Massachusetts Certification #: M-PA1457
Maryland Certification #: 308
Maine Certification #: PA0091
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Kentucky Certification #: 90133
Kansas/NELAC Certification #: E-10358
Iowa Certification #: 391
Indiana/PADEP Certification
Illinois/PADEP Certification
Idaho Certification
Hawaii/PADEP Certification
Guam/PADEP Certification
Georgia Certification #: 968
Florida/NELAC Certification #: E87683
Delaware Certification
Connecticut Certification #: PH 0694
Colorado Certification
California/NELAC Certification #: 04222CA
Arkansas Certification
Arizona Certification #: AZ0734
Alabama Certification #: 41590

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SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568453.10000
Pace Project No.: 3016231

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3016231001	**RW-2D**	EPA 8260	JAS	42	PASI-PA
3016231002	**RW-2S**	EPA 8260	JAS	42	PASI-PA
3016231003	**RW-1S**	EPA 8260	JAS	42	PASI-PA
3016231004	**RW-3S**	EPA 8260	JAS	42	PASI-PA
3016231005	**RW-6D**	EPA 8260	JAS	42	PASI-PA
3016231006	**TB-01**	EPA 8260	JAS	42	PASI-PA

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3016231

Sample: RW-2D **Lab ID: 3016231001** Collected: 09/30/09 09:40 Received: 10/01/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/05/09 23:36	67-64-1	
Benzene	**9.5**	ug/L	1.0	1		10/05/09 23:36	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/05/09 23:36	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/05/09 23:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/05/09 23:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/05/09 23:36	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/05/09 23:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/05/09 23:36	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/05/09 23:36	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/05/09 23:36	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/05/09 23:36	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/05/09 23:36	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/05/09 23:36	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/05/09 23:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/05/09 23:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/05/09 23:36	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/05/09 23:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/05/09 23:36	107-06-2	
1,1-Dichloroethene	**35.3**	ug/L	5.0	1		10/05/09 23:36	75-35-4	
cis-1,2-Dichloroethene	**11200**	ug/L	250	50		10/03/09 01:17	156-59-2	
trans-1,2-Dichloroethene	**114**	ug/L	5.0	1		10/05/09 23:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/05/09 23:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/05/09 23:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/05/09 23:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/05/09 23:36	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/05/09 23:36	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/05/09 23:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/05/09 23:36	108-10-1	
Styrene	ND	ug/L	5.0	1		10/05/09 23:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/05/09 23:36	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/05/09 23:36	127-18-4	
Toluene	ND	ug/L	5.0	1		10/05/09 23:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/05/09 23:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/05/09 23:36	79-00-5	
Trichloroethene	**1160**	ug/L	250	50		10/03/09 01:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/05/09 23:36	75-69-4	
Vinyl chloride	**2030**	ug/L	50.0	50		10/03/09 01:17	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/05/09 23:36	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/05/09 23:36	95-47-6	
4-Bromofluorobenzene (S)	91	%	70-130	1		10/05/09 23:36	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		10/05/09 23:36	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		10/05/09 23:36	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3016231

Sample: RW-2S **Lab ID: 3016231002** Collected: 09/30/09 09:50 Received: 10/01/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/03/09 01:43	67-64-1	
Benzene	ND	ug/L	1.0	1		10/03/09 01:43	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/03/09 01:43	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/03/09 01:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/03/09 01:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/03/09 01:43	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/03/09 01:43	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/03/09 01:43	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/03/09 01:43	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/03/09 01:43	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/03/09 01:43	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/03/09 01:43	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/03/09 01:43	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/03/09 01:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/03/09 01:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/03/09 01:43	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/03/09 01:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/03/09 01:43	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/03/09 01:43	75-35-4	
cis-1,2-Dichloroethene	**60.3**	ug/L	5.0	1		10/03/09 01:43	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/03/09 01:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/03/09 01:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/09 01:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/09 01:43	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/03/09 01:43	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/03/09 01:43	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/03/09 01:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/03/09 01:43	108-10-1	
Styrene	ND	ug/L	5.0	1		10/03/09 01:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/03/09 01:43	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/03/09 01:43	127-18-4	
Toluene	ND	ug/L	5.0	1		10/03/09 01:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/03/09 01:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/03/09 01:43	79-00-5	
Trichloroethene	**33.4**	ug/L	5.0	1		10/03/09 01:43	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/03/09 01:43	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/03/09 01:43	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/03/09 01:43	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/03/09 01:43	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		10/03/09 01:43	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		10/03/09 01:43	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		10/03/09 01:43	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3016231

Sample: RW-1S **Lab ID: 3016231003** Collected: 09/30/09 09:55 Received: 10/01/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/03/09 02:09	67-64-1	
Benzene	ND	ug/L	1.0	1		10/03/09 02:09	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/03/09 02:09	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/03/09 02:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/03/09 02:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/03/09 02:09	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/03/09 02:09	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/03/09 02:09	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/03/09 02:09	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/03/09 02:09	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/03/09 02:09	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/03/09 02:09	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/03/09 02:09	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/03/09 02:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/03/09 02:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/03/09 02:09	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/03/09 02:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/03/09 02:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/03/09 02:09	75-35-4	
cis-1,2-Dichloroethene	**126**	ug/L	5.0	1		10/03/09 02:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/03/09 02:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/03/09 02:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/09 02:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/09 02:09	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/03/09 02:09	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/03/09 02:09	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/03/09 02:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/03/09 02:09	108-10-1	
Styrene	ND	ug/L	5.0	1		10/03/09 02:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/03/09 02:09	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/03/09 02:09	127-18-4	
Toluene	ND	ug/L	5.0	1		10/03/09 02:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/03/09 02:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/03/09 02:09	79-00-5	
Trichloroethene	**153**	ug/L	5.0	1		10/03/09 02:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/03/09 02:09	75-69-4	
Vinyl chloride	**1.4**	ug/L	1.0	1		10/03/09 02:09	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/03/09 02:09	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/03/09 02:09	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		10/03/09 02:09	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		10/03/09 02:09	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		10/03/09 02:09	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3016231

Sample: RW-3S **Lab ID: 3016231004** Collected: 09/30/09 10:10 Received: 10/01/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/03/09 02:35	67-64-1	
Benzene	**48.1**	ug/L	1.0	1		10/03/09 02:35	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/03/09 02:35	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/03/09 02:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/03/09 02:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/03/09 02:35	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/03/09 02:35	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/03/09 02:35	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/03/09 02:35	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/03/09 02:35	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/03/09 02:35	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/03/09 02:35	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/03/09 02:35	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/03/09 02:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/03/09 02:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/03/09 02:35	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/03/09 02:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/03/09 02:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/03/09 02:35	75-35-4	
cis-1,2-Dichloroethene	**218**	ug/L	5.0	1		10/03/09 02:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/03/09 02:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/03/09 02:35	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/09 02:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/09 02:35	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/03/09 02:35	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/03/09 02:35	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/03/09 02:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/03/09 02:35	108-10-1	
Styrene	ND	ug/L	5.0	1		10/03/09 02:35	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/03/09 02:35	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/03/09 02:35	127-18-4	
Toluene	ND	ug/L	5.0	1		10/03/09 02:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/03/09 02:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/03/09 02:35	79-00-5	
Trichloroethene	**540**	ug/L	50.0	10		10/06/09 00:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/03/09 02:35	75-69-4	
Vinyl chloride	**6.9**	ug/L	1.0	1		10/03/09 02:35	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/03/09 02:35	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/03/09 02:35	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		10/03/09 02:35	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		10/03/09 02:35	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		10/03/09 02:35	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3016231

Sample: RW-6D **Lab ID: 3016231005** Collected: 09/30/09 10:20 Received: 10/01/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**16000**	ug/L	1000	100		10/06/09 00:28	67-64-1	
Benzene	**99.2**	ug/L	1.0	1		10/03/09 03:01	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/03/09 03:01	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/03/09 03:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/03/09 03:01	74-83-9	
2-Butanone (MEK)	**92.5**	ug/L	10.0	1		10/03/09 03:01	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/03/09 03:01	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/03/09 03:01	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/03/09 03:01	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/03/09 03:01	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/03/09 03:01	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/03/09 03:01	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/03/09 03:01	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/03/09 03:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/03/09 03:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/03/09 03:01	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/03/09 03:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/03/09 03:01	107-06-2	
1,1-Dichloroethene	**59.7**	ug/L	5.0	1		10/03/09 03:01	75-35-4	
cis-1,2-Dichloroethene	**15900**	ug/L	200	40		10/03/09 03:27	156-59-2	
trans-1,2-Dichloroethene	**185**	ug/L	5.0	1		10/03/09 03:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/03/09 03:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/09 03:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/03/09 03:01	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/03/09 03:01	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/03/09 03:01	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/03/09 03:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/03/09 03:01	108-10-1	
Styrene	ND	ug/L	5.0	1		10/03/09 03:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/03/09 03:01	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/03/09 03:01	127-18-4	
Toluene	ND	ug/L	5.0	1		10/03/09 03:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/03/09 03:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/03/09 03:01	79-00-5	
Trichloroethene	**16700**	ug/L	500	100		10/06/09 00:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/03/09 03:01	75-69-4	
Vinyl chloride	**2030**	ug/L	40.0	40		10/03/09 03:27	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/03/09 03:01	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/03/09 03:01	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		10/03/09 03:01	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		10/03/09 03:01	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		10/03/09 03:01	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3016231

Sample: TB-01 **Lab ID: 3016231006** Collected: 09/30/09 00:00 Received: 10/01/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/05/09 23:10	67-64-1	
Benzene	ND	ug/L	1.0	1		10/05/09 23:10	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/05/09 23:10	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/05/09 23:10	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/05/09 23:10	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/05/09 23:10	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/05/09 23:10	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/05/09 23:10	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/05/09 23:10	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/05/09 23:10	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/05/09 23:10	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/05/09 23:10	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/05/09 23:10	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/05/09 23:10	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/05/09 23:10	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/05/09 23:10	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/05/09 23:10	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/05/09 23:10	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/05/09 23:10	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/05/09 23:10	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/05/09 23:10	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/05/09 23:10	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/05/09 23:10	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/05/09 23:10	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/05/09 23:10	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/05/09 23:10	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/05/09 23:10	75-09-2	B,C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/05/09 23:10	108-10-1	
Styrene	ND	ug/L	5.0	1		10/05/09 23:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/05/09 23:10	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/05/09 23:10	127-18-4	
Toluene	ND	ug/L	5.0	1		10/05/09 23:10	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/05/09 23:10	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/05/09 23:10	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/05/09 23:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/05/09 23:10	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/05/09 23:10	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/05/09 23:10	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/05/09 23:10	95-47-6	
4-Bromofluorobenzene (S)	91	%	70-130	1		10/05/09 23:10	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		10/05/09 23:10	17060-07-0	
Toluene-d8 (S)	92	%	70-130	1		10/05/09 23:10	2037-26-5	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3016231

QC Batch: MSV/3810 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3016231001, 3016231002, 3016231003, 3016231004, 3016231005

METHOD BLANK: 99075 Matrix: Water
Associated Lab Samples: 3016231001, 3016231002, 3016231003, 3016231004, 3016231005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/02/09 21:22	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/02/09 21:22	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/02/09 21:22	
1,1-Dichloroethane	ug/L	ND	5.0	10/02/09 21:22	
1,1-Dichloroethene	ug/L	ND	5.0	10/02/09 21:22	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/02/09 21:22	
1,2-Dichloroethane	ug/L	ND	5.0	10/02/09 21:22	
1,2-Dichloropropane	ug/L	ND	5.0	10/02/09 21:22	
1,3-Dichlorobenzene	ug/L	ND	5.0	10/02/09 21:22	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/02/09 21:22	
2-Butanone (MEK)	ug/L	ND	10.0	10/02/09 21:22	
2-Hexanone	ug/L	ND	10.0	10/02/09 21:22	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/02/09 21:22	
Acetone	ug/L	ND	10.0	10/02/09 21:22	
Benzene	ug/L	ND	1.0	10/02/09 21:22	
Bromodichloromethane	ug/L	ND	5.0	10/02/09 21:22	
Bromoform	ug/L	ND	5.0	10/02/09 21:22	
Bromomethane	ug/L	ND	5.0	10/02/09 21:22	B
Carbon disulfide	ug/L	ND	5.0	10/02/09 21:22	
Carbon tetrachloride	ug/L	ND	5.0	10/02/09 21:22	
Chlorobenzene	ug/L	ND	5.0	10/02/09 21:22	
Chloroethane	ug/L	ND	5.0	10/02/09 21:22	
Chloroform	ug/L	ND	5.0	10/02/09 21:22	
Chloromethane	ug/L	ND	5.0	10/02/09 21:22	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/02/09 21:22	
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/02/09 21:22	
Dibromochloromethane	ug/L	ND	5.0	10/02/09 21:22	
Ethylbenzene	ug/L	ND	5.0	10/02/09 21:22	
m&p-Xylene	ug/L	ND	5.0	10/02/09 21:22	
Methylene Chloride	ug/L	ND	5.0	10/02/09 21:22	B,C9
o-Xylene	ug/L	ND	5.0	10/02/09 21:22	
Styrene	ug/L	ND	5.0	10/02/09 21:22	
Tetrachloroethene	ug/L	ND	5.0	10/02/09 21:22	
Toluene	ug/L	ND	5.0	10/02/09 21:22	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/02/09 21:22	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/02/09 21:22	
Trichloroethene	ug/L	ND	5.0	10/02/09 21:22	
Trichlorofluoromethane	ug/L	ND	5.0	10/02/09 21:22	
Vinyl chloride	ug/L	ND	1.0	10/02/09 21:22	
1,2-Dichloroethane-d4 (S)	%	101	70-130	10/02/09 21:22	
4-Bromofluorobenzene (S)	%	101	70-130	10/02/09 21:22	
Toluene-d8 (S)	%	97	70-130	10/02/09 21:22	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3016231

LABORATORY CONTROL SAMPLE: 99076

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.1	95	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.5	92	70-130	
1,1,2-Trichloroethane	ug/L	20	20.3	101	70-130	
1,1-Dichloroethane	ug/L	20	18.6	93	70-130	
1,1-Dichloroethene	ug/L	20	12.9	65	70-130	L2
1,2-Dichlorobenzene	ug/L	20	22.3	112	70-130	
1,2-Dichloroethane	ug/L	20	19.4	97	70-130	
1,2-Dichloropropane	ug/L	20	19.4	97	70-130	
1,3-Dichlorobenzene	ug/L	20	22.3	112	70-130	
1,4-Dichlorobenzene	ug/L	20	21.1	106	70-130	
2-Butanone (MEK)	ug/L	20	20.6	103	70-130	
2-Hexanone	ug/L	20	21.8	109	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	23.7	118	70-130	
Acetone	ug/L	20	19.8	99	70-130	
Benzene	ug/L	20	19.9	99	70-130	
Bromodichloromethane	ug/L	20	20.1	101	70-130	
Bromoform	ug/L	20	19.9	99	70-130	
Bromomethane	ug/L	20	67.6	338	70-130	L1
Carbon disulfide	ug/L	20	21.6	108	70-130	
Carbon tetrachloride	ug/L	20	19.0	95	70-130	
Chlorobenzene	ug/L	20	21.4	107	70-130	
Chloroethane	ug/L	20	15.6	78	70-130	
Chloroform	ug/L	20	19.0	95	70-130	
Chloromethane	ug/L	20	15.3	76	70-130	
cis-1,2-Dichloroethene	ug/L	20	20.5	103	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.7	94	70-130	
Dibromochloromethane	ug/L	20	20.4	102	70-130	
Ethylbenzene	ug/L	20	21.7	109	70-130	
m&p-Xylene	ug/L	40	46.3	116	70-130	
Methylene Chloride	ug/L	20	19.9	100	70-130	
o-Xylene	ug/L	20	23.0	115	70-130	
Styrene	ug/L	20	24.3	121	70-130	
Tetrachloroethene	ug/L	20	20.2	101	70-130	
Toluene	ug/L	20	21.2	106	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.0	95	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.9	105	70-130	
Trichloroethene	ug/L	20	20.8	104	70-130	
Trichlorofluoromethane	ug/L	20	30.1	150	70-130	L1
Vinyl chloride	ug/L	20	19.7	98	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3016231

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 99077 99078

Parameter	Units	3016231002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	15.1	18.4	75	92	70-130	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.0	19.4	95	97	70-130	2	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.0	19.1	90	95	70-130	6	
1,1-Dichloroethane	ug/L	ND	20	20	15.5	17.4	77	87	70-130	12	
1,1-Dichloroethene	ug/L	ND	20	20	10.5	12.6	52	63	70-130	19	M0
1,2-Dichlorobenzene	ug/L	ND	20	20	18.6	20.3	93	102	70-130	9	
1,2-Dichloroethane	ug/L	ND	20	20	17.1	18.3	86	91	70-130	6	
1,2-Dichloropropane	ug/L	ND	20	20	16.9	18.9	85	94	70-130	11	
1,3-Dichlorobenzene	ug/L	ND	20	20	17.9	20.1	90	101	70-130	12	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.4	19.4	87	97	70-130	11	
2-Butanone (MEK)	ug/L	ND	20	20	17.6	16.3	88	82	70-130	8	
2-Hexanone	ug/L	ND	20	20	19.3	19.6	97	98	70-130	1	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	22.8	22.5	114	112	70-130	1	
Acetone	ug/L	ND	20	20	14.7	15.2	33	35	70-130	4	M0
Benzene	ug/L	ND	20	20	16.7	19.2	84	96	70-130	14	
Bromodichloromethane	ug/L	ND	20	20	16.1	18.5	81	92	70-130	14	
Bromoform	ug/L	ND	20	20	16.0	17.3	80	87	70-130	8	
Bromomethane	ug/L	ND	20	20	46.1	43.9	228	217	70-130	5	M0
Carbon disulfide	ug/L	ND	20	20	14.2	17.3	71	87	70-130	20	
Carbon tetrachloride	ug/L	ND	20	20	14.8	18.6	74	93	70-130	23	
Chlorobenzene	ug/L	ND	20	20	17.7	20.1	88	100	70-130	13	
Chloroethane	ug/L	ND	20	20	19.5	18.3	97	91	70-130	6	
Chloroform	ug/L	ND	20	20	15.6	17.8	78	89	70-130	13	
Chloromethane	ug/L	ND	20	20	17.5	18.3	80	84	70-130	5	
cis-1,2-Dichloroethene	ug/L	60.3	20	20	75.8	79.2	78	94	70-130	4	
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.3	17.4	76	87	70-130	13	
Dibromochloromethane	ug/L	ND	20	20	16.6	18.5	83	92	70-130	11	
Ethylbenzene	ug/L	ND	20	20	18.2	21.6	91	108	70-130	17	
m&p-Xylene	ug/L	ND	40	40	37.4	44.6	93	111	70-130	17	
Methylene Chloride	ug/L	ND	20	20	13.6	18.8	52	78	70-130	32	M0
o-Xylene	ug/L	ND	20	20	18.6	21.8	93	109	70-130	16	
Styrene	ug/L	ND	20	20	19.0	20.8	95	104	70-130	9	
Tetrachloroethene	ug/L	ND	20	20	16.2	19.8	81	99	70-130	20	
Toluene	ug/L	ND	20	20	17.4	20.6	87	103	70-130	17	
trans-1,2-Dichloroethene	ug/L	ND	20	20	15.8	18.2	79	91	70-130	14	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.8	18.7	84	94	70-130	11	
Trichloroethene	ug/L	33.4	20	20	49.4	52.5	80	95	70-130	6	
Trichlorofluoromethane	ug/L	ND	20	20	29.4	31.8	147	159	70-130	8	M0
Vinyl chloride	ug/L	ND	20	20	19.7	21.3	98	106	70-130	8	
1,2-Dichloroethane-d4 (S)	%						92	92	70-130		
4-Bromofluorobenzene (S)	%						105	102	70-130		
Toluene-d8 (S)	%						102	103	70-130		

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Greensburg, PA 15601
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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3016231

QC Batch: MSV/3833 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3016231006

METHOD BLANK: 99701 Matrix: Water
Associated Lab Samples: 3016231006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/05/09 22:44	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/05/09 22:44	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/05/09 22:44	
1,1-Dichloroethane	ug/L	ND	5.0	10/05/09 22:44	
1,1-Dichloroethene	ug/L	ND	5.0	10/05/09 22:44	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/05/09 22:44	
1,2-Dichloroethane	ug/L	ND	5.0	10/05/09 22:44	
1,2-Dichloropropane	ug/L	ND	5.0	10/05/09 22:44	
1,3-Dichlorobenzene	ug/L	ND	5.0	10/05/09 22:44	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/05/09 22:44	
2-Butanone (MEK)	ug/L	ND	10.0	10/05/09 22:44	
2-Hexanone	ug/L	ND	10.0	10/05/09 22:44	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/05/09 22:44	
Acetone	ug/L	ND	10.0	10/05/09 22:44	
Benzene	ug/L	ND	1.0	10/05/09 22:44	
Bromodichloromethane	ug/L	ND	5.0	10/05/09 22:44	
Bromoform	ug/L	ND	5.0	10/05/09 22:44	
Bromomethane	ug/L	ND	5.0	10/05/09 22:44	
Carbon disulfide	ug/L	ND	5.0	10/05/09 22:44	
Carbon tetrachloride	ug/L	ND	5.0	10/05/09 22:44	
Chlorobenzene	ug/L	ND	5.0	10/05/09 22:44	
Chloroethane	ug/L	ND	5.0	10/05/09 22:44	
Chloroform	ug/L	ND	5.0	10/05/09 22:44	
Chloromethane	ug/L	ND	5.0	10/05/09 22:44	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/05/09 22:44	
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/05/09 22:44	
Dibromochloromethane	ug/L	ND	5.0	10/05/09 22:44	
Ethylbenzene	ug/L	ND	5.0	10/05/09 22:44	
m&p-Xylene	ug/L	ND	5.0	10/05/09 22:44	
Methylene Chloride	ug/L	ND	5.0	10/05/09 22:44	B,C9
o-Xylene	ug/L	ND	5.0	10/05/09 22:44	
Styrene	ug/L	ND	5.0	10/05/09 22:44	
Tetrachloroethene	ug/L	ND	5.0	10/05/09 22:44	
Toluene	ug/L	ND	5.0	10/05/09 22:44	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/05/09 22:44	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/05/09 22:44	
Trichloroethene	ug/L	ND	5.0	10/05/09 22:44	
Trichlorofluoromethane	ug/L	ND	5.0	10/05/09 22:44	
Vinyl chloride	ug/L	ND	1.0	10/05/09 22:44	
1,2-Dichloroethane-d4 (S)	%	110	70-130	10/05/09 22:44	
4-Bromofluorobenzene (S)	%	89	70-130	10/05/09 22:44	
Toluene-d8 (S)	%	91	70-130	10/05/09 22:44	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3016231

LABORATORY CONTROL SAMPLE: 99702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.7	114	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.4	97	70-130	
1,1,2-Trichloroethane	ug/L	20	21.1	105	70-130	
1,1-Dichloroethane	ug/L	20	22.1	110	70-130	
1,1-Dichloroethene	ug/L	20	19.5	97	70-130	
1,2-Dichlorobenzene	ug/L	20	21.7	108	70-130	
1,2-Dichloroethane	ug/L	20	23.4	117	70-130	
1,2-Dichloropropane	ug/L	20	20.7	104	70-130	
1,3-Dichlorobenzene	ug/L	20	21.2	106	70-130	
1,4-Dichlorobenzene	ug/L	20	21.0	105	70-130	
2-Butanone (MEK)	ug/L	20	18.4	92	70-130	
2-Hexanone	ug/L	20	20.3	102	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	21.2	106	70-130	
Acetone	ug/L	20	19.0	95	70-130	
Benzene	ug/L	20	21.1	105	70-130	
Bromodichloromethane	ug/L	20	21.1	106	70-130	
Bromoform	ug/L	20	20.3	101	70-130	
Bromomethane	ug/L	20	66.7	333	70-130	L1
Carbon disulfide	ug/L	20	22.1	111	70-130	
Carbon tetrachloride	ug/L	20	22.0	110	70-130	
Chlorobenzene	ug/L	20	22.2	111	70-130	
Chloroethane	ug/L	20	17.3	86	70-130	
Chloroform	ug/L	20	22.2	111	70-130	
Chloromethane	ug/L	20	14.9	75	70-130	
cis-1,2-Dichloroethene	ug/L	20	22.7	113	70-130	
cis-1,3-Dichloropropene	ug/L	20	20.3	101	70-130	
Dibromochloromethane	ug/L	20	20.6	103	70-130	
Ethylbenzene	ug/L	20	22.3	112	70-130	
m&p-Xylene	ug/L	40	45.9	115	70-130	
Methylene Chloride	ug/L	20	22.1	111	70-130	
o-Xylene	ug/L	20	22.2	111	70-130	
Styrene	ug/L	20	22.5	112	70-130	
Tetrachloroethene	ug/L	20	21.8	109	70-130	
Toluene	ug/L	20	22.3	112	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.3	111	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.7	103	70-130	
Trichloroethene	ug/L	20	21.4	107	70-130	
Trichlorofluoromethane	ug/L	20	32.1	160	70-130	L1
Vinyl chloride	ug/L	20	20.8	104	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			97	70-130	

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QUALIFIERS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3016231

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
C9	Common Laboratory Contaminant.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568453.10000
Pace Project No.: 3016231

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3016231001	**RW-2D**	EPA 8260	MSV/3810		
3016231002	**RW-2S**	EPA 8260	MSV/3810		
3016231003	**RW-1S**	EPA 8260	MSV/3810		
3016231004	**RW-3S**	EPA 8260	MSV/3810		
3016231005	**RW-6D**	EPA 8260	MSV/3810		
3016231006	**TB-01**	EPA 8260	MSV/3833		

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1296225

Section A
Required Client Information:

Company:	URS CORP
Address:	FOSTER PLAZA 4, STE 300 501 HOLIDAY DR PITTSBURGH, PA 15220
Email To:	
Phone: 412-503-4700	Fax: 412-503-4701
Requested Due Date/TAT:	STANDARD

Section B
Required Project Information:

Report To:	MARK DOWIAK
Copy To:	VALERIE SIBETO
Purchase Order No.:	41568453
Project Name:	ESSEX/HOPE JAMESTOWN
Project Number:	41568453.10000

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

- NPDES
- GROUND WATER
- DRINKING WATER
- UST
- RCRA
- OTHER

Site Location STATE: NY

Section D
Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 3016231
1	RW-2D					9/30/09	0940		3				X					X		001
2	RW-2S					↓	0950		3				X					X		002
3	RW-1S					↓	0955		3				X					X		003
4	RW-3S					↓	1010		3				X					X		004
5	RW-6D					↓	1020		3				X					X		005
6	TB-01					9/30/09	—		2				X					X		006
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SEMI-ANNUAL	Valerie Sibeto / URS	9.30.09		Fed Ex	9.30.09					
RECOVERY WELL				Fed Ex — C. Urbanowitz Pace	10-1-09	1000	2.5	Y	N	Y
SAMPLING										

SAMPLE CONDITIONS

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: Valerie Sibeto

DATE Signed (MM/DD/YY): 9.30.09

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: IRS Project # 30162J1

Courier: (Fed Ex) ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes (no) Seals intact: ☐ yes ☐ no

Packing Material: (Bubble Wrap) (Bubble Bags) ☐ None ☐ Other _____

Thermometer Used 3 (4) Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 2.5 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: CAW 10-1

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	(Yes) ☐No ☐N/A	1.
Chain of Custody Filled Out:	(Yes) ☐No ☐N/A	2.
Chain of Custody Relinquished:	(Yes) ☐No ☐N/A	3.
Sampler Name & Signature on COC:	(Yes) ☐No ☐N/A	4.
Samples Arrived within Hold Time:	(Yes) ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes (No) ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes (No) ☐N/A	7.
Sufficient Volume:	(Yes) ☐No ☐N/A	8.
Correct Containers Used:	(Yes) ☐No ☐N/A	9.
-Pace Containers Used:	(Yes) ☐No ☐N/A	
Containers Intact:	(Yes) ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes (No) ☐N/A	11.
Sample Labels match COC:	(Yes) ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	(Yes) ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	(Yes) ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	(Yes) ☐No	Initial when completed CAW / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No (N/A)	14.
Headspace in VOA Vials (>6mm):	☐Yes (No) ☐N/A	15.
Trip Blank Present:	(Yes) ☐No ☐N/A	16.
Trip Blank Custody Seals Present	(Yes) ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Kaelyn Sylvester **Date:** 10/1/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

APPENDIX B-2

2009 ANNUAL PMP MONITORING WELL DATA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 14, 2009

Mr. Mark Dowiak
URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

RE: Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on October 07, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

Pennsylvania Certification IDs

Wyoming Certification #: 8TMS-Q
Wisconsin/PADEP Certification
West Virginia Certification #: 143
Washington Certification #: C1941
Virginia Certification #: 00112
Virgin Island/PADEP Certification
Utah/NELAC Certification #: ANTE
Texas/NELAC Certification #: T104704188-09 TX
Tennessee Certification #: TN2867
South Dakota Certification
Puerto Rico Certification #: PA01457
Pennsylvania/NELAC Certification #: 65-282
Oregon/NELAC Certification #: PA200002
North Carolina Certification #: 42706
New York/NELAC Certification #: 10888
New Mexico Certification
New Jersey/NELAC Certification #: PA 051
New Hampshire/NELAC Certification #: 2976
Nevada Certification
Montana Certification #: Cert 0082
Missouri Certification #: 235
Minnesota Certification #: 042-999-425
Michigan/PADEP Certification
Massachusetts Certification #: M-PA1457
Maryland Certification #: 308
Maine Certification #: PA0091
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Kentucky Certification #: 90133
Kansas/NELAC Certification #: E-10358
Iowa Certification #: 391
Indiana/PADEP Certification
Illinois/PADEP Certification
Idaho Certification
Hawaii/PADEP Certification
Guam/PADEP Certification
Georgia Certification #: 968
Florida/NELAC Certification #: E87683
Delaware Certification
Connecticut Certification #: PH 0694
Colorado Certification
California/NELAC Certification #: 04222CA
Arkansas Certification
Arizona Certification #: AZ0734
Alabama Certification #: 41590

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(724)850-5600

SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3016527001	**MW-25S**	EPA 8260	EAC	42	PASI-PA
3016527002	**MW-25D**	EPA 8260	EAC	42	PASI-PA
3016527003	**MW-14S**	EPA 8260	EAC	42	PASI-PA
3016527004	**MW-14D**	EPA 8260	EAC	42	PASI-PA
3016527005	**MW-15D**	EPA 8260	EAC	42	PASI-PA
3016527006	**MW-15S**	EPA 8260	EAC	42	PASI-PA
3016527007	**VP-6D**	EPA 8260	EAC	42	PASI-PA
3016527008	**MW-2**	EPA 8260	EAC	42	PASI-PA
3016527009	**MW-6**	EPA 8260	EAC	42	PASI-PA
3016527010	**MW-8**	EPA 8260	EAC	42	PASI-PA
3016527011	**MW-7S**	EPA 8260	EAC	42	PASI-PA
3016527012	**MW-7D**	EPA 8260	EAC	42	PASI-PA
3016527013	**TRIP BLANK**	EPA 8260	EAC	42	PASI-PA

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

Sample: MW-25S **Lab ID: 3016527001** Collected: 10/06/09 09:05 Received: 10/07/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/08/09 13:15	67-64-1	
Benzene	ND	ug/L	1.0	1		10/08/09 13:15	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/08/09 13:15	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/08/09 13:15	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/08/09 13:15	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/08/09 13:15	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/08/09 13:15	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/08/09 13:15	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/08/09 13:15	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/08/09 13:15	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/08/09 13:15	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/08/09 13:15	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/08/09 13:15	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 13:15	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 13:15	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 13:15	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/08/09 13:15	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/08/09 13:15	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/08/09 13:15	75-35-4	
cis-1,2-Dichloroethene	**6.1**	ug/L	5.0	1		10/08/09 13:15	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/09 13:15	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/08/09 13:15	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 13:15	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 13:15	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/08/09 13:15	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/08/09 13:15	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/08/09 13:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/08/09 13:15	108-10-1	
Styrene	ND	ug/L	5.0	1		10/08/09 13:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/08/09 13:15	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/08/09 13:15	127-18-4	
Toluene	ND	ug/L	5.0	1		10/08/09 13:15	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/08/09 13:15	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/08/09 13:15	79-00-5	
Trichloroethene	**68.9**	ug/L	5.0	1		10/08/09 13:15	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/08/09 13:15	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/08/09 13:15	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/08/09 13:15	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/08/09 13:15	95-47-6	
4-Bromofluorobenzene (S)	108	%	70-130	1		10/08/09 13:15	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		10/08/09 13:15	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		10/08/09 13:15	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

Sample: MW-25D **Lab ID: 3016527002** Collected: 10/06/09 09:25 Received: 10/07/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/08/09 13:41	67-64-1	
Benzene	ND	ug/L	1.0	1		10/08/09 13:41	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/08/09 13:41	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/08/09 13:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/08/09 13:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/08/09 13:41	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/08/09 13:41	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/08/09 13:41	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/08/09 13:41	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/08/09 13:41	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/08/09 13:41	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/08/09 13:41	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/08/09 13:41	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 13:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 13:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 13:41	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/08/09 13:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/08/09 13:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/08/09 13:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/09 13:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/09 13:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/08/09 13:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 13:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 13:41	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/08/09 13:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/08/09 13:41	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/08/09 13:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/08/09 13:41	108-10-1	
Styrene	ND	ug/L	5.0	1		10/08/09 13:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/08/09 13:41	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/08/09 13:41	127-18-4	
Toluene	ND	ug/L	5.0	1		10/08/09 13:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/08/09 13:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/08/09 13:41	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/08/09 13:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/08/09 13:41	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/08/09 13:41	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/08/09 13:41	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/08/09 13:41	95-47-6	
4-Bromofluorobenzene (S)	104	%	70-130	1		10/08/09 13:41	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-130	1		10/08/09 13:41	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		10/08/09 13:41	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

Sample: MW-14S **Lab ID: 3016527003** Collected: 10/06/09 09:40 Received: 10/07/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/08/09 14:34	67-64-1	
Benzene	ND	ug/L	1.0	1		10/08/09 14:34	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/08/09 14:34	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/08/09 14:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/08/09 14:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/08/09 14:34	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/08/09 14:34	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/08/09 14:34	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/08/09 14:34	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/08/09 14:34	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/08/09 14:34	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/08/09 14:34	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/08/09 14:34	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 14:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 14:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 14:34	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/08/09 14:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/08/09 14:34	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/08/09 14:34	75-35-4	
cis-1,2-Dichloroethene	**71.4**	ug/L	5.0	1		10/08/09 14:34	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/09 14:34	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/08/09 14:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 14:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 14:34	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/08/09 14:34	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/08/09 14:34	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/08/09 14:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/08/09 14:34	108-10-1	
Styrene	ND	ug/L	5.0	1		10/08/09 14:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/08/09 14:34	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/08/09 14:34	127-18-4	
Toluene	ND	ug/L	5.0	1		10/08/09 14:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/08/09 14:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/08/09 14:34	79-00-5	
Trichloroethene	**39.8**	ug/L	5.0	1		10/08/09 14:34	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/08/09 14:34	75-69-4	
Vinyl chloride	**5.2**	ug/L	1.0	1		10/08/09 14:34	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/08/09 14:34	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/08/09 14:34	95-47-6	
4-Bromofluorobenzene (S)	114	%	70-130	1		10/08/09 14:34	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	70-130	1		10/08/09 14:34	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		10/08/09 14:34	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

Sample: MW-14D **Lab ID: 3016527004** Collected: 10/06/09 09:55 Received: 10/07/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/08/09 14:59	67-64-1	
Benzene	ND	ug/L	1.0	1		10/08/09 14:59	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/08/09 14:59	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/08/09 14:59	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/08/09 14:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/08/09 14:59	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/08/09 14:59	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/08/09 14:59	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/08/09 14:59	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/08/09 14:59	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/08/09 14:59	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/08/09 14:59	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/08/09 14:59	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 14:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 14:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 14:59	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/08/09 14:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/08/09 14:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/08/09 14:59	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/09 14:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/09 14:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/08/09 14:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 14:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 14:59	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/08/09 14:59	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/08/09 14:59	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/08/09 14:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/08/09 14:59	108-10-1	
Styrene	ND	ug/L	5.0	1		10/08/09 14:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/08/09 14:59	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/08/09 14:59	127-18-4	
Toluene	ND	ug/L	5.0	1		10/08/09 14:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/08/09 14:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/08/09 14:59	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/08/09 14:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/08/09 14:59	75-69-4	
Vinyl chloride	**5.5**	ug/L	1.0	1		10/08/09 14:59	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/08/09 14:59	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/08/09 14:59	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130	1		10/08/09 14:59	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130	1		10/08/09 14:59	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		10/08/09 14:59	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

Sample: MW-15D **Lab ID: 3016527005** Collected: 10/06/09 11:00 Received: 10/07/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/08/09 15:25	67-64-1	
Benzene	**1.6**	ug/L	1.0	1		10/08/09 15:25	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/08/09 15:25	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/08/09 15:25	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/08/09 15:25	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/08/09 15:25	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/08/09 15:25	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/08/09 15:25	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/08/09 15:25	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/08/09 15:25	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/08/09 15:25	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/08/09 15:25	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/08/09 15:25	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 15:25	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 15:25	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 15:25	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/08/09 15:25	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/08/09 15:25	107-06-2	
1,1-Dichloroethene	**105**	ug/L	5.0	1		10/08/09 15:25	75-35-4	
cis-1,2-Dichloroethene	**16000**	ug/L	2500	500		10/09/09 11:18	156-59-2	
trans-1,2-Dichloroethene	**261**	ug/L	5.0	1		10/08/09 15:25	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/08/09 15:25	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 15:25	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 15:25	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/08/09 15:25	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/08/09 15:25	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/08/09 15:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/08/09 15:25	108-10-1	
Styrene	ND	ug/L	5.0	1		10/08/09 15:25	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/08/09 15:25	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/08/09 15:25	127-18-4	
Toluene	ND	ug/L	5.0	1		10/08/09 15:25	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/08/09 15:25	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/08/09 15:25	79-00-5	
Trichloroethene	**9810**	ug/L	2500	500		10/09/09 11:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/08/09 15:25	75-69-4	
Vinyl chloride	**692**	ug/L	500	500		10/09/09 11:18	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/08/09 15:25	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/08/09 15:25	95-47-6	
4-Bromofluorobenzene (S)	107	%	70-130	1		10/08/09 15:25	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130	1		10/08/09 15:25	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		10/08/09 15:25	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

Sample: MW-15S **Lab ID: 3016527006** Collected: 10/06/09 11:15 Received: 10/07/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/08/09 15:50	67-64-1	
Benzene	ND	ug/L	1.0	1		10/08/09 15:50	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/08/09 15:50	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/08/09 15:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/08/09 15:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/08/09 15:50	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/08/09 15:50	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/08/09 15:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/08/09 15:50	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/08/09 15:50	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/08/09 15:50	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/08/09 15:50	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/08/09 15:50	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 15:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 15:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 15:50	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/08/09 15:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/08/09 15:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/08/09 15:50	75-35-4	
cis-1,2-Dichloroethene	**6.5**	ug/L	5.0	1		10/09/09 10:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/09 15:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/08/09 15:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 15:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 15:50	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/08/09 15:50	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/08/09 15:50	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/08/09 15:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/08/09 15:50	108-10-1	
Styrene	ND	ug/L	5.0	1		10/08/09 15:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/08/09 15:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/08/09 15:50	127-18-4	
Toluene	ND	ug/L	5.0	1		10/08/09 15:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/08/09 15:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/08/09 15:50	79-00-5	
Trichloroethene	**15.8**	ug/L	5.0	1		10/09/09 10:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/08/09 15:50	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/08/09 15:50	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/08/09 15:50	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/08/09 15:50	95-47-6	
4-Bromofluorobenzene (S)	104	%	70-130	1		10/08/09 15:50	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		10/08/09 15:50	17060-07-0	
Toluene-d8 (S)	93	%	70-130	1		10/08/09 15:50	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

Sample: VP-6D **Lab ID: 3016527007** Collected: 10/06/09 12:10 Received: 10/07/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/08/09 16:16	67-64-1	
Benzene	ND	ug/L	1.0	1		10/08/09 16:16	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/08/09 16:16	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/08/09 16:16	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/08/09 16:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/08/09 16:16	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/08/09 16:16	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/08/09 16:16	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/08/09 16:16	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/08/09 16:16	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/08/09 16:16	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/08/09 16:16	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/08/09 16:16	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 16:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 16:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 16:16	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/08/09 16:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/08/09 16:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/08/09 16:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/09 16:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/09 16:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/08/09 16:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 16:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 16:16	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/08/09 16:16	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/08/09 16:16	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/08/09 16:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/08/09 16:16	108-10-1	
Styrene	ND	ug/L	5.0	1		10/08/09 16:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/08/09 16:16	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/08/09 16:16	127-18-4	
Toluene	ND	ug/L	5.0	1		10/08/09 16:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/08/09 16:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/08/09 16:16	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/08/09 16:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/08/09 16:16	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/08/09 16:16	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/08/09 16:16	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/08/09 16:16	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130	1		10/08/09 16:16	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	70-130	1		10/08/09 16:16	17060-07-0	
Toluene-d8 (S)	91	%	70-130	1		10/08/09 16:16	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

Sample: MW-2 **Lab ID: 3016527008** Collected: 10/06/09 12:25 Received: 10/07/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/08/09 16:41	67-64-1	
Benzene	ND	ug/L	1.0	1		10/08/09 16:41	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/08/09 16:41	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/08/09 16:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/08/09 16:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/08/09 16:41	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/08/09 16:41	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/08/09 16:41	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/08/09 16:41	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/08/09 16:41	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/08/09 16:41	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/08/09 16:41	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/08/09 16:41	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 16:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 16:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 16:41	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/08/09 16:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/08/09 16:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/08/09 16:41	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/09 16:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/09 16:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/08/09 16:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 16:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 16:41	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/08/09 16:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/08/09 16:41	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/08/09 16:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/08/09 16:41	108-10-1	
Styrene	ND	ug/L	5.0	1		10/08/09 16:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/08/09 16:41	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/08/09 16:41	127-18-4	
Toluene	ND	ug/L	5.0	1		10/08/09 16:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/08/09 16:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/08/09 16:41	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/08/09 16:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/08/09 16:41	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/08/09 16:41	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/08/09 16:41	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/08/09 16:41	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		10/08/09 16:41	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		10/08/09 16:41	17060-07-0	
Toluene-d8 (S)	92	%	70-130	1		10/08/09 16:41	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

Sample: MW-6 **Lab ID: 3016527009** Collected: 10/06/09 13:35 Received: 10/07/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/08/09 17:07	67-64-1	
Benzene	ND	ug/L	1.0	1		10/08/09 17:07	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/08/09 17:07	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/08/09 17:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/08/09 17:07	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/08/09 17:07	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/08/09 17:07	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/08/09 17:07	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/08/09 17:07	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/08/09 17:07	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/08/09 17:07	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/08/09 17:07	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/08/09 17:07	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 17:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 17:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 17:07	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/08/09 17:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/08/09 17:07	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/08/09 17:07	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/09 17:07	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/09 17:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/08/09 17:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 17:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 17:07	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/08/09 17:07	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/08/09 17:07	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/08/09 17:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/08/09 17:07	108-10-1	
Styrene	ND	ug/L	5.0	1		10/08/09 17:07	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/08/09 17:07	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/08/09 17:07	127-18-4	
Toluene	ND	ug/L	5.0	1		10/08/09 17:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/08/09 17:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/08/09 17:07	79-00-5	
Trichloroethene	**6.5**	ug/L	5.0	1		10/08/09 17:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/08/09 17:07	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/08/09 17:07	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/08/09 17:07	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/08/09 17:07	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130	1		10/08/09 17:07	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		10/08/09 17:07	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		10/08/09 17:07	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

Sample: MW-8 **Lab ID: 3016527010** Collected: 10/06/09 13:55 Received: 10/07/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/08/09 17:33	67-64-1	
Benzene	ND	ug/L	1.0	1		10/08/09 17:33	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/08/09 17:33	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/08/09 17:33	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/08/09 17:33	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/08/09 17:33	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/08/09 17:33	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/08/09 17:33	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/08/09 17:33	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/08/09 17:33	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/08/09 17:33	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/08/09 17:33	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/08/09 17:33	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 17:33	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 17:33	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 17:33	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/08/09 17:33	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/08/09 17:33	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/08/09 17:33	75-35-4	
cis-1,2-Dichloroethene	**94.1**	ug/L	5.0	1		10/08/09 17:33	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/09 17:33	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/08/09 17:33	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 17:33	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 17:33	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/08/09 17:33	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/08/09 17:33	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/08/09 17:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/08/09 17:33	108-10-1	
Styrene	ND	ug/L	5.0	1		10/08/09 17:33	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/08/09 17:33	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/08/09 17:33	127-18-4	
Toluene	ND	ug/L	5.0	1		10/08/09 17:33	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/08/09 17:33	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/08/09 17:33	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/08/09 17:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/08/09 17:33	75-69-4	
Vinyl chloride	**23.8**	ug/L	1.0	1		10/08/09 17:33	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/08/09 17:33	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/08/09 17:33	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130	1		10/08/09 17:33	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130	1		10/08/09 17:33	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		10/08/09 17:33	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

Sample: MW-7S **Lab ID: 3016527011** Collected: 10/06/09 14:25 Received: 10/07/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/08/09 17:58	67-64-1	
Benzene	ND	ug/L	1.0	1		10/08/09 17:58	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/08/09 17:58	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/08/09 17:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/08/09 17:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/08/09 17:58	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/08/09 17:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/08/09 17:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/08/09 17:58	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/08/09 17:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/08/09 17:58	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/08/09 17:58	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/08/09 17:58	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 17:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 17:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 17:58	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/08/09 17:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/08/09 17:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/08/09 17:58	75-35-4	
cis-1,2-Dichloroethene	**12.1**	ug/L	5.0	1		10/08/09 17:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/09 17:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/08/09 17:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 17:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 17:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/08/09 17:58	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/08/09 17:58	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/08/09 17:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/08/09 17:58	108-10-1	
Styrene	ND	ug/L	5.0	1		10/08/09 17:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/08/09 17:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/08/09 17:58	127-18-4	
Toluene	ND	ug/L	5.0	1		10/08/09 17:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/08/09 17:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/08/09 17:58	79-00-5	
Trichloroethene	**11.3**	ug/L	5.0	1		10/08/09 17:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/08/09 17:58	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/08/09 17:58	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/08/09 17:58	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/08/09 17:58	95-47-6	
4-Bromofluorobenzene (S)	104	%	70-130	1		10/08/09 17:58	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-130	1		10/08/09 17:58	17060-07-0	
Toluene-d8 (S)	93	%	70-130	1		10/08/09 17:58	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

Sample: MW-7D **Lab ID: 3016527012** Collected: 10/06/09 14:45 Received: 10/07/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/08/09 18:24	67-64-1	
Benzene	**13.3**	ug/L	1.0	1		10/08/09 18:24	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/08/09 18:24	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/08/09 18:24	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/08/09 18:24	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/08/09 18:24	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/08/09 18:24	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/08/09 18:24	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/08/09 18:24	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/08/09 18:24	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/08/09 18:24	67-66-3	
Chloromethane	**8.6**	ug/L	5.0	1		10/08/09 18:24	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/08/09 18:24	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 18:24	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 18:24	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 18:24	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/08/09 18:24	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/08/09 18:24	107-06-2	
1,1-Dichloroethene	**27.5**	ug/L	5.0	1		10/08/09 18:24	75-35-4	
cis-1,2-Dichloroethene	**6150**	ug/L	2500	500		10/09/09 11:43	156-59-2	
trans-1,2-Dichloroethene	**124**	ug/L	5.0	1		10/08/09 18:24	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/08/09 18:24	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 18:24	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 18:24	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/08/09 18:24	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/08/09 18:24	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/08/09 18:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/08/09 18:24	108-10-1	
Styrene	ND	ug/L	5.0	1		10/08/09 18:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/08/09 18:24	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/08/09 18:24	127-18-4	
Toluene	ND	ug/L	5.0	1		10/08/09 18:24	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/08/09 18:24	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/08/09 18:24	79-00-5	
Trichloroethene	**8.0**	ug/L	5.0	1		10/08/09 18:24	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/08/09 18:24	75-69-4	
Vinyl chloride	**634**	ug/L	500	500		10/09/09 11:43	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/08/09 18:24	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/08/09 18:24	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130	1		10/08/09 18:24	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%	70-130	1		10/08/09 18:24	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		10/08/09 18:24	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

Sample: TRIP BLANK **Lab ID: 3016527013** Collected: Received: 10/07/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/08/09 11:06	67-64-1	
Benzene	ND	ug/L	1.0	1		10/08/09 11:06	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/08/09 11:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/08/09 11:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/08/09 11:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/08/09 11:06	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/08/09 11:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/08/09 11:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/08/09 11:06	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/08/09 11:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/08/09 11:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/08/09 11:06	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/08/09 11:06	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 11:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 11:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/08/09 11:06	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/08/09 11:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/08/09 11:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/08/09 11:06	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/09 11:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/08/09 11:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/08/09 11:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 11:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/08/09 11:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/08/09 11:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/08/09 11:06	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/08/09 11:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/08/09 11:06	108-10-1	
Styrene	ND	ug/L	5.0	1		10/08/09 11:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/08/09 11:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/08/09 11:06	127-18-4	
Toluene	ND	ug/L	5.0	1		10/08/09 11:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/08/09 11:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/08/09 11:06	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/08/09 11:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/08/09 11:06	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/08/09 11:06	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/08/09 11:06	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/08/09 11:06	95-47-6	
4-Bromofluorobenzene (S)	106	%	70-130	1		10/08/09 11:06	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		10/08/09 11:06	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		10/08/09 11:06	2037-26-5	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

QC Batch: MSV/3857 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3016527001, 3016527002, 3016527003, 3016527004, 3016527005, 3016527006, 3016527007, 3016527008, 3016527009, 3016527010, 3016527011, 3016527012, 3016527013

METHOD BLANK: 100570 Matrix: Water
Associated Lab Samples: 3016527001, 3016527002, 3016527003, 3016527004, 3016527005, 3016527006, 3016527007, 3016527008, 3016527009, 3016527010, 3016527011, 3016527012, 3016527013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/08/09 09:49	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/08/09 09:49	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/08/09 09:49	
1,1-Dichloroethane	ug/L	ND	5.0	10/08/09 09:49	
1,1-Dichloroethene	ug/L	ND	5.0	10/08/09 09:49	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/08/09 09:49	
1,2-Dichloroethane	ug/L	ND	5.0	10/08/09 09:49	
1,2-Dichloropropane	ug/L	ND	5.0	10/08/09 09:49	
1,3-Dichlorobenzene	ug/L	ND	5.0	10/08/09 09:49	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/08/09 09:49	
2-Butanone (MEK)	ug/L	ND	10.0	10/08/09 09:49	
2-Hexanone	ug/L	ND	10.0	10/08/09 09:49	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/08/09 09:49	
Acetone	ug/L	ND	10.0	10/08/09 09:49	
Benzene	ug/L	ND	1.0	10/08/09 09:49	
Bromodichloromethane	ug/L	ND	5.0	10/08/09 09:49	
Bromoform	ug/L	ND	5.0	10/08/09 09:49	
Bromomethane	ug/L	ND	5.0	10/08/09 09:49	
Carbon disulfide	ug/L	ND	5.0	10/08/09 09:49	
Carbon tetrachloride	ug/L	ND	5.0	10/08/09 09:49	
Chlorobenzene	ug/L	ND	5.0	10/08/09 09:49	
Chloroethane	ug/L	ND	5.0	10/08/09 09:49	
Chloroform	ug/L	ND	5.0	10/08/09 09:49	
Chloromethane	ug/L	ND	5.0	10/08/09 09:49	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/08/09 09:49	
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/08/09 09:49	
Dibromochloromethane	ug/L	ND	5.0	10/08/09 09:49	
Ethylbenzene	ug/L	ND	5.0	10/08/09 09:49	
m&p-Xylene	ug/L	ND	5.0	10/08/09 09:49	
Methylene Chloride	ug/L	ND	5.0	10/08/09 09:49	
o-Xylene	ug/L	ND	5.0	10/08/09 09:49	
Styrene	ug/L	ND	5.0	10/08/09 09:49	
Tetrachloroethene	ug/L	ND	5.0	10/08/09 09:49	
Toluene	ug/L	ND	5.0	10/08/09 09:49	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/08/09 09:49	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/08/09 09:49	
Trichloroethene	ug/L	ND	5.0	10/08/09 09:49	
Trichlorofluoromethane	ug/L	ND	5.0	10/08/09 09:49	
Vinyl chloride	ug/L	ND	1.0	10/08/09 09:49	
1,2-Dichloroethane-d4 (S)	%	107	70-130	10/08/09 09:49	
4-Bromofluorobenzene (S)	%	105	70-130	10/08/09 09:49	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

METHOD BLANK: 100570 Matrix: Water

Associated Lab Samples: 3016527001, 3016527002, 3016527003, 3016527004, 3016527005, 3016527006, 3016527007, 3016527008, 3016527009, 3016527010, 3016527011, 3016527012, 3016527013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene-d8 (S)	%	98	70-130	10/08/09 09:49	

LABORATORY CONTROL SAMPLE: 100571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	23.1	116	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.5	87	70-130	
1,1,2-Trichloroethane	ug/L	20	21.1	106	70-130	
1,1-Dichloroethane	ug/L	20	21.0	105	70-130	
1,1-Dichloroethene	ug/L	20	19.9	100	70-130	
1,2-Dichlorobenzene	ug/L	20	21.7	108	70-130	
1,2-Dichloroethane	ug/L	20	22.3	112	70-130	
1,2-Dichloropropane	ug/L	20	20.0	100	70-130	
1,3-Dichlorobenzene	ug/L	20	21.6	108	70-130	
1,4-Dichlorobenzene	ug/L	20	21.7	109	70-130	
2-Butanone (MEK)	ug/L	20	18.1	91	70-130	
2-Hexanone	ug/L	20	20.2	101	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.4	97	70-130	
Acetone	ug/L	20	18.4	92	70-130	
Benzene	ug/L	20	20.5	102	70-130	
Bromodichloromethane	ug/L	20	22.7	114	70-130	
Bromoform	ug/L	20	24.1	121	70-130	
Bromomethane	ug/L	20	27.9	140	70-130	S0
Carbon disulfide	ug/L	20	21.3	106	70-130	
Carbon tetrachloride	ug/L	20	26.0	130	70-130	
Chlorobenzene	ug/L	20	22.2	111	70-130	
Chloroethane	ug/L	20	16.8	84	70-130	
Chloroform	ug/L	20	21.4	107	70-130	
Chloromethane	ug/L	20	16.8	84	70-130	
cis-1,2-Dichloroethene	ug/L	20	21.3	106	70-130	
cis-1,3-Dichloropropene	ug/L	20	20.7	104	70-130	
Dibromochloromethane	ug/L	20	22.5	112	70-130	
Ethylbenzene	ug/L	20	21.9	109	70-130	
m&p-Xylene	ug/L	40	44.3	111	70-130	
Methylene Chloride	ug/L	20	19.2	96	70-130	
o-Xylene	ug/L	20	21.7	108	70-130	
Styrene	ug/L	20	21.7	108	70-130	
Tetrachloroethene	ug/L	20	23.3	117	70-130	
Toluene	ug/L	20	21.8	109	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.5	107	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.3	102	70-130	
Trichloroethene	ug/L	20	24.7	123	70-130	
Trichlorofluoromethane	ug/L	20	21.0	105	70-130	
Vinyl chloride	ug/L	20	13.6	68	70-130	L0

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

LABORATORY CONTROL SAMPLE: 100571

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 100605 100606

Parameter	Units	3016524002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	22.8	21.8	114	109	70-130	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.6	17.7	88	89	70-130	.8	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.1	18.6	95	93	70-130	3	
1,1-Dichloroethane	ug/L	ND	20	20	20.7	19.2	103	96	70-130	7	
1,1-Dichloroethene	ug/L	ND	20	20	21.5	19.5	107	97	70-130	10	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.2	18.5	96	93	70-130	4	
1,2-Dichloroethane	ug/L	ND	20	20	22.8	21.4	114	107	70-130	7	
1,2-Dichloropropane	ug/L	ND	20	20	17.4	16.2	87	81	70-130	7	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.4	18.4	97	92	70-130	5	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.4	18.8	97	94	70-130	3	
2-Butanone (MEK)	ug/L	ND	20	20	14.6	15.9	73	79	70-130	8	
2-Hexanone	ug/L	ND	20	20	15.8	16.3	79	81	70-130	3	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	16.8	17.0	84	85	70-130	1	
Acetone	ug/L	ND	20	20	16.2	16.0	31	31	70-130	.9	M0
Benzene	ug/L	ND	20	20	18.2	17.1	91	85	70-130	7	
Bromodichloromethane	ug/L	ND	20	20	19.3	19.0	97	95	70-130	2	
Bromoform	ug/L	ND	20	20	17.4	18.3	87	91	70-130	5	
Bromomethane	ug/L	ND	20	20	8.5	9.7	43	48	70-130	13	M0
Carbon disulfide	ug/L	ND	20	20	21.5	21.3	107	107	70-130	.6	
Carbon tetrachloride	ug/L	ND	20	20	21.2	21.3	106	106	70-130	.5	
Chlorobenzene	ug/L	ND	20	20	20.1	19.1	101	96	70-130	5	
Chloroethane	ug/L	ND	20	20	11.2	14.7	56	73	70-130	27	M0
Chloroform	ug/L	ND	20	20	21.5	19.8	107	99	70-130	8	
Chloromethane	ug/L	ND	20	20	9.3	9.7	47	48	70-130	3	M0
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.3	20.1	107	100	70-130	6	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.2	16.0	81	80	70-130	1	
Dibromochloromethane	ug/L	ND	20	20	17.5	17.9	87	89	70-130	2	
Ethylbenzene	ug/L	ND	20	20	19.8	19.0	99	95	70-130	4	
m&p-Xylene	ug/L	ND	40	40	40.7	38.6	102	97	70-130	5	
Methylene Chloride	ug/L	ND	20	20	19.4	17.7	97	89	70-130	9	
o-Xylene	ug/L	ND	20	20	19.2	18.3	96	92	70-130	5	
Styrene	ug/L	ND	20	20	18.7	17.7	94	88	70-130	6	
Tetrachloroethene	ug/L	ND	20	20	20.5	19.7	103	98	70-130	4	
Toluene	ug/L	ND	20	20	20.3	19.3	99	93	70-130	5	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.9	20.4	110	102	70-130	7	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.1	16.0	80	80	70-130	.4	
Trichloroethene	ug/L	2.5	20	20	22.4	21.2	100	93	70-130	6	
Trichlorofluoromethane	ug/L	ND	20	20	16.0	19.0	80	95	70-130	17	
Vinyl chloride	ug/L	ND	20	20	5.5	6.5	27	33	70-130	17	M0

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 100605 100606

Parameter	Units	3016524002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dichloroethane-d4 (S)	%						118	115	70-130		
4-Bromofluorobenzene (S)	%						97	98	70-130		
Toluene-d8 (S)	%						95	94	70-130		

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QUALIFIERS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016527

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3016527001	**MW-25S**	EPA 8260	MSV/3857		
3016527002	**MW-25D**	EPA 8260	MSV/3857		
3016527003	**MW-14S**	EPA 8260	MSV/3857		
3016527004	**MW-14D**	EPA 8260	MSV/3857		
3016527005	**MW-15D**	EPA 8260	MSV/3857		
3016527006	**MW-15S**	EPA 8260	MSV/3857		
3016527007	**VP-6D**	EPA 8260	MSV/3857		
3016527008	**MW-2**	EPA 8260	MSV/3857		
3016527009	**MW-6**	EPA 8260	MSV/3857		
3016527010	**MW-8**	EPA 8260	MSV/3857		
3016527011	**MW-7S**	EPA 8260	MSV/3857		
3016527012	**MW-7D**	EPA 8260	MSV/3857		
3016527013	**TRIP BLANK**	EPA 8260	MSV/3857		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1295672

Section A
Required Client Information:

Company: URS CORP
Address: 501 HOLIDAY DR. FOSTER PLAZ 4, STE 300
PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4700 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B
Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41568453
Project Name: ESSEX/HOPE ANNUAL PMP SAMPLING
Project Number: 41568453, 40000

Section C
Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: NY

Section D
Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

Pace Project No./ Lab I.D.: 3016527

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-25S	WT	G			10/6/09	0905		3				X					X		001
2	MW-25D						0925		3				X					X		002
3	MW-14S						0940		3				X					X		003
4	MW-14D						0955		3				X					X		004
5	MW-15D						1100		3				X					X		005
6	MW-15S						1115		3				X					X		006
7	VP-6D						1210		3				X					X		007
8	MW-2						1225		3				X					X		008
9	MW-6						1335		3				X					X		009
10	MW-8						1355		3				X					X		010
11	MW-7S						1425		3				X					X		011
12	MW-7D	WT	G			10/6/09	1445		3				X					X		012 013 TB

(TB) ADDITIONAL COMMENTS: ANNUAL PMP SAMPLING. ALSO INCLUDED TB-01 FOR VOCS ANALYSES

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION (TB)	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
Valerie Sibeto / URS	10.6.09	1530	Fed Ex Air	10/6/09	1530				
Fed Ex	–		C. Urbowity Pace	10-7-09	1000	4.4	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: Valerie Sibeto
DATE Signed (MM/DD/YY): 10/6/09

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 3616527

Courier: (Fed Ex) UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes (no) Seals intact: yes no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: (Bubble Wrap) Bubble Bags None Other _____

Thermometer Used 3 (4) Type of Ice: (Wet) Blue None (Samples on ice, cooling process has begun)

Cooler Temperature 4.4 Biological Tissue is Frozen: Yes No

Date and initials of person examining contents: 10-7

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	(Yes) No N/A	1.
Chain of Custody Filled Out:	(Yes) No N/A	2.
Chain of Custody Relinquished:	(Yes) No N/A	3.
Sampler Name & Signature on COC:	(Yes) No N/A	4.
Samples Arrived within Hold Time:	(Yes) No N/A	5.
Short Hold Time Analysis (<72hr):	Yes (No) N/A	6.
Rush Turn Around Time Requested:	Yes (No) N/A	7.
Sufficient Volume:	(Yes) No N/A	8.
Correct Containers Used:	(Yes) No N/A	9.
-Pace Containers Used:	(Yes) No N/A	
Containers Intact:	(Yes) No N/A	10.
Filtered volume received for Dissolved tests	Yes (No) N/A	11.
Sample Labels match COC:	(Yes) No N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	(Yes) No N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	(Yes) No N/A	
exceptions: (VOA), coliform, TOC, O&G, WI-DRO (water)	(Yes) No	Initial when completed: CAW / Lot # of added preservative:
Samples checked for dechlorination:	Yes No (N/A)	14.
Headspace in VOA Vials (>6mm):	Yes (No) N/A	15.
Trip Blank Present:	(Yes) No N/A	16.
Trip Blank Custody Seals Present	(Yes) No N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Raelyn Sylvester **Date:** 10/7/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 21, 2009

Mr. Mark Dowiak
URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

RE: Project: Essex-Hope 41568453.40000
Pace Project No.: 3016586

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on October 08, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016586

Pennsylvania Certification IDs

Wyoming Certification #: 8TMS-Q
Wisconsin/PADEP Certification
West Virginia Certification #: 143
Washington Certification #: C1941
Virginia Certification #: 00112
Virgin Island/PADEP Certification
Utah/NELAC Certification #: ANTE
Texas/NELAC Certification #: T104704188-09 TX
Tennessee Certification #: TN2867
South Dakota Certification
Puerto Rico Certification #: PA01457
Pennsylvania/NELAC Certification #: 65-282
Oregon/NELAC Certification #: PA200002
North Carolina Certification #: 42706
New York/NELAC Certification #: 10888
New Mexico Certification
New Jersey/NELAC Certification #: PA 051
New Hampshire/NELAC Certification #: 2976
Nevada Certification
Montana Certification #: Cert 0082
Missouri Certification #: 235
Minnesota Certification #: 042-999-425
Michigan/PADEP Certification
Massachusetts Certification #: M-PA1457
Maryland Certification #: 308
Maine Certification #: PA0091
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Kentucky Certification #: 90133
Kansas/NELAC Certification #: E-10358
Iowa Certification #: 391
Indiana/PADEP Certification
Illinois/PADEP Certification
Idaho Certification
Hawaii/PADEP Certification
Guam/PADEP Certification
Georgia Certification #: 968
Florida/NELAC Certification #: E87683
Delaware Certification
Connecticut Certification #: PH 0694
Colorado Certification
California/NELAC Certification #: 04222CA
Arkansas Certification
Arizona Certification #: AZ0734
Alabama Certification #: 41590

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SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016586

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3016586001	**MW-20**	EPA 8260	MAK	42	PASI-PA
3016586002	**MW-22D**	EPA 8260	JAS, MAK	42	PASI-PA
3016586003	**MW-21D**	EPA 8260	JAS, MAK	42	PASI-PA
3016586004	**TB-02**	EPA 8260	MAK	42	PASI-PA

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016586

Sample: MW-20 **Lab ID: 3016586001** Collected: 10/07/09 10:15 Received: 10/08/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/13/09 18:51	67-64-1	
Benzene	ND	ug/L	1.0	1		10/13/09 18:51	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/13/09 18:51	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/13/09 18:51	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/13/09 18:51	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/13/09 18:51	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/13/09 18:51	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/13/09 18:51	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/13/09 18:51	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/13/09 18:51	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/13/09 18:51	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/13/09 18:51	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/13/09 18:51	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/13/09 18:51	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/13/09 18:51	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/13/09 18:51	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/13/09 18:51	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/13/09 18:51	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/13/09 18:51	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/13/09 18:51	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/13/09 18:51	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/13/09 18:51	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/13/09 18:51	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/13/09 18:51	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/13/09 18:51	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/13/09 18:51	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/13/09 18:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/13/09 18:51	108-10-1	
Styrene	ND	ug/L	5.0	1		10/13/09 18:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/13/09 18:51	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/13/09 18:51	127-18-4	
Toluene	ND	ug/L	5.0	1		10/13/09 18:51	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/13/09 18:51	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/13/09 18:51	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/13/09 18:51	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/13/09 18:51	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/13/09 18:51	75-01-4	
m&p-Xylene	**37.5**	ug/L	5.0	1		10/13/09 18:51	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/13/09 18:51	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130	1		10/13/09 18:51	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-130	1		10/13/09 18:51	17060-07-0	
Toluene-d8 (S)	90	%	70-130	1		10/13/09 18:51	2037-26-5	

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016586

Sample: MW-22D **Lab ID: 3016586002** Collected: 10/07/09 10:40 Received: 10/08/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/13/09 19:17	67-64-1	
Benzene	**6.1**	ug/L	1.0	1		10/13/09 19:17	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/13/09 19:17	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/13/09 19:17	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/13/09 19:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/13/09 19:17	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/13/09 19:17	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/13/09 19:17	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/13/09 19:17	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/13/09 19:17	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/13/09 19:17	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/13/09 19:17	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/13/09 19:17	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/13/09 19:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/13/09 19:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/13/09 19:17	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/13/09 19:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/13/09 19:17	107-06-2	
1,1-Dichloroethene	**12.7**	ug/L	5.0	1		10/13/09 19:17	75-35-4	
cis-1,2-Dichloroethene	**1220**	ug/L	200	40		10/15/09 22:54	156-59-2	
trans-1,2-Dichloroethene	**32.0**	ug/L	5.0	1		10/13/09 19:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/13/09 19:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/13/09 19:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/13/09 19:17	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/13/09 19:17	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/13/09 19:17	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/13/09 19:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/13/09 19:17	108-10-1	
Styrene	ND	ug/L	5.0	1		10/13/09 19:17	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/13/09 19:17	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/13/09 19:17	127-18-4	
Toluene	ND	ug/L	5.0	1		10/13/09 19:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/13/09 19:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/13/09 19:17	79-00-5	
Trichloroethene	**7410**	ug/L	200	40		10/15/09 22:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/13/09 19:17	75-69-4	
Vinyl chloride	**61.4**	ug/L	1.0	1		10/13/09 19:17	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/13/09 19:17	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/13/09 19:17	95-47-6	
4-Bromofluorobenzene (S)	90	%	70-130	1		10/13/09 19:17	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		10/13/09 19:17	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		10/13/09 19:17	2037-26-5	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016586

Sample: MW-21D **Lab ID: 3016586003** Collected: 10/07/09 11:20 Received: 10/08/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	1000	100		10/15/09 23:21	67-64-1	
Benzene	**223**	ug/L	1.0	1		10/13/09 19:43	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/13/09 19:43	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/13/09 19:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/13/09 19:43	74-83-9	
2-Butanone (MEK)	**20.5**	ug/L	10.0	1		10/13/09 19:43	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/13/09 19:43	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/13/09 19:43	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/13/09 19:43	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/13/09 19:43	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/13/09 19:43	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/13/09 19:43	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/13/09 19:43	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/13/09 19:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/13/09 19:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/13/09 19:43	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/13/09 19:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/13/09 19:43	107-06-2	
1,1-Dichloroethene	**631**	ug/L	500	100		10/15/09 23:21	75-35-4	
cis-1,2-Dichloroethene	**183000**	ug/L	5000	1000		10/20/09 12:38	156-59-2	
trans-1,2-Dichloroethene	**2780**	ug/L	500	100		10/15/09 23:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/13/09 19:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/13/09 19:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/13/09 19:43	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/13/09 19:43	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/13/09 19:43	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/13/09 19:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/13/09 19:43	108-10-1	
Styrene	ND	ug/L	5.0	1		10/13/09 19:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/13/09 19:43	79-34-5	
Tetrachloroethene	**7.4**	ug/L	5.0	1		10/13/09 19:43	127-18-4	
Toluene	**39.1**	ug/L	5.0	1		10/13/09 19:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/13/09 19:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/13/09 19:43	79-00-5	
Trichloroethene	**138000**	ug/L	5000	1000		10/20/09 12:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/13/09 19:43	75-69-4	
Vinyl chloride	**9540**	ug/L	100	100		10/15/09 23:21	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/13/09 19:43	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/13/09 19:43	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130	1		10/13/09 19:43	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		10/13/09 19:43	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		10/13/09 19:43	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016586

Sample: TB-02 **Lab ID: 3016586004** Collected: 10/07/09 00:00 Received: 10/08/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		10/13/09 18:26	67-64-1	
Benzene	ND	ug/L	1.0	1		10/13/09 18:26	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/13/09 18:26	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/13/09 18:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/13/09 18:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/13/09 18:26	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/13/09 18:26	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/13/09 18:26	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/13/09 18:26	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/13/09 18:26	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/13/09 18:26	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/13/09 18:26	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/13/09 18:26	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/13/09 18:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/13/09 18:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/13/09 18:26	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/13/09 18:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/13/09 18:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/13/09 18:26	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/13/09 18:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/13/09 18:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/13/09 18:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/13/09 18:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/13/09 18:26	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/13/09 18:26	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/13/09 18:26	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/13/09 18:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/13/09 18:26	108-10-1	
Styrene	ND	ug/L	5.0	1		10/13/09 18:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/13/09 18:26	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/13/09 18:26	127-18-4	
Toluene	ND	ug/L	5.0	1		10/13/09 18:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/13/09 18:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/13/09 18:26	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/13/09 18:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/13/09 18:26	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		10/13/09 18:26	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/13/09 18:26	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		10/13/09 18:26	95-47-6	
4-Bromofluorobenzene (S)	89	%	70-130	1		10/13/09 18:26	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		10/13/09 18:26	17060-07-0	
Toluene-d8 (S)	91	%	70-130	1		10/13/09 18:26	2037-26-5	

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016586

QC Batch: MSV/3910 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3016586001, 3016586002, 3016586003, 3016586004

METHOD BLANK: 102399 Matrix: Water
Associated Lab Samples: 3016586001, 3016586002, 3016586003, 3016586004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/13/09 18:00	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/13/09 18:00	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/13/09 18:00	
1,1-Dichloroethane	ug/L	ND	5.0	10/13/09 18:00	
1,1-Dichloroethene	ug/L	ND	5.0	10/13/09 18:00	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/13/09 18:00	
1,2-Dichloroethane	ug/L	ND	5.0	10/13/09 18:00	
1,2-Dichloropropane	ug/L	ND	5.0	10/13/09 18:00	
1,3-Dichlorobenzene	ug/L	ND	5.0	10/13/09 18:00	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/13/09 18:00	
2-Butanone (MEK)	ug/L	ND	10.0	10/13/09 18:00	
2-Hexanone	ug/L	ND	10.0	10/13/09 18:00	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/13/09 18:00	
Acetone	ug/L	ND	10.0	10/13/09 18:00	
Benzene	ug/L	ND	1.0	10/13/09 18:00	
Bromodichloromethane	ug/L	ND	5.0	10/13/09 18:00	
Bromoform	ug/L	ND	5.0	10/13/09 18:00	
Bromomethane	ug/L	ND	5.0	10/13/09 18:00	
Carbon disulfide	ug/L	ND	5.0	10/13/09 18:00	
Carbon tetrachloride	ug/L	ND	5.0	10/13/09 18:00	
Chlorobenzene	ug/L	ND	5.0	10/13/09 18:00	
Chloroethane	ug/L	ND	5.0	10/13/09 18:00	
Chloroform	ug/L	ND	5.0	10/13/09 18:00	
Chloromethane	ug/L	ND	5.0	10/13/09 18:00	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/13/09 18:00	
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/13/09 18:00	
Dibromochloromethane	ug/L	ND	5.0	10/13/09 18:00	
Ethylbenzene	ug/L	ND	5.0	10/13/09 18:00	
m&p-Xylene	ug/L	ND	5.0	10/13/09 18:00	
Methylene Chloride	ug/L	ND	5.0	10/13/09 18:00	
o-Xylene	ug/L	ND	5.0	10/13/09 18:00	
Styrene	ug/L	ND	5.0	10/13/09 18:00	
Tetrachloroethene	ug/L	ND	5.0	10/13/09 18:00	
Toluene	ug/L	ND	5.0	10/13/09 18:00	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/13/09 18:00	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/13/09 18:00	
Trichloroethene	ug/L	ND	5.0	10/13/09 18:00	
Trichlorofluoromethane	ug/L	ND	5.0	10/13/09 18:00	
Vinyl chloride	ug/L	ND	1.0	10/13/09 18:00	
1,2-Dichloroethane-d4 (S)	%	109	70-130	10/13/09 18:00	
4-Bromofluorobenzene (S)	%	91	70-130	10/13/09 18:00	
Toluene-d8 (S)	%	93	70-130	10/13/09 18:00	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016586

LABORATORY CONTROL SAMPLE: 102400

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.2	101	70-130	
1,1,2-Trichloroethane	ug/L	20	19.8	99	70-130	
1,1-Dichloroethane	ug/L	20	19.6	98	70-130	
1,1-Dichloroethene	ug/L	20	16.4	82	70-130	
1,2-Dichlorobenzene	ug/L	20	22.5	113	70-130	
1,2-Dichloroethane	ug/L	20	21.5	107	70-130	
1,2-Dichloropropane	ug/L	20	18.7	93	70-130	
1,3-Dichlorobenzene	ug/L	20	22.1	110	70-130	
1,4-Dichlorobenzene	ug/L	20	22.2	111	70-130	
2-Butanone (MEK)	ug/L	20	20.3	102	70-130	
2-Hexanone	ug/L	20	21.1	106	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.6	98	70-130	
Acetone	ug/L	20	19.6	98	70-130	
Benzene	ug/L	20	19.4	97	70-130	
Bromodichloromethane	ug/L	20	19.2	96	70-130	
Bromoform	ug/L	20	21.4	107	70-130	
Bromomethane	ug/L	20	39.1	195	70-130	L1
Carbon disulfide	ug/L	20	24.2	121	70-130	
Carbon tetrachloride	ug/L	20	20.1	100	70-130	
Chlorobenzene	ug/L	20	21.4	107	70-130	
Chloroethane	ug/L	20	23.9	120	70-130	
Chloroform	ug/L	20	20.0	100	70-130	
Chloromethane	ug/L	20	20.4	102	70-130	
cis-1,2-Dichloroethene	ug/L	20	20.4	102	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.2	91	70-130	
Dibromochloromethane	ug/L	20	19.3	97	70-130	
Ethylbenzene	ug/L	20	21.8	109	70-130	
m&p-Xylene	ug/L	40	46.4	116	70-130	
Methylene Chloride	ug/L	20	18.8	94	70-130	
o-Xylene	ug/L	20	22.7	113	70-130	
Styrene	ug/L	20	22.9	114	70-130	
Tetrachloroethene	ug/L	20	20.2	101	70-130	
Toluene	ug/L	20	21.1	106	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.6	98	70-130	
trans-1,3-Dichloropropene	ug/L	20	18.5	93	70-130	
Trichloroethene	ug/L	20	19.4	97	70-130	
Trichlorofluoromethane	ug/L	20	30.2	151	70-130	L1
Vinyl chloride	ug/L	20	29.4	147	70-130	L1
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016586

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 102401 102402

Parameter	Units	3016736001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	23.2	24.6	116	123	70-130	6	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.6	18.4	88	92	70-130	4	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.4	20.4	92	102	70-130	10	
1,1-Dichloroethane	ug/L	ND	20	20	22.4	23.6	112	118	70-130	5	
1,1-Dichloroethene	ug/L	ND	20	20	24.2	24.5	121	122	70-130	1	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.6	20.3	98	101	70-130	4	
1,2-Dichloroethane	ug/L	ND	20	20	24.7	25.9	124	129	70-130	5	
1,2-Dichloropropane	ug/L	ND	20	20	17.5	18.3	88	91	70-130	4	
1,3-Dichlorobenzene	ug/L	ND	20	20	20.0	21.3	100	106	70-130	6	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.6	20.3	98	102	70-130	3	
2-Butanone (MEK)	ug/L	25.4	20	20	43.4	46.6	90	106	70-130	7	
2-Hexanone	ug/L	ND	20	20	19.7	20.7	98	103	70-130	5	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	16.2	17.0	81	85	70-130	4	
Acetone	ug/L	121	20	20	137	142	82	108	70-130	4	
Benzene	ug/L	ND	20	20	19.1	20.3	96	102	70-130	6	
Bromodichloromethane	ug/L	ND	20	20	19.1	20.3	96	101	70-130	6	
Bromoform	ug/L	ND	20	20	20.0	21.0	100	105	70-130	5	
Bromomethane	ug/L	ND	20	20	24.3	24.7	118	120	70-130	1	
Carbon disulfide	ug/L	ND	20	20	24.7	23.7	123	118	70-130	4	
Carbon tetrachloride	ug/L	ND	20	20	23.9	25.0	120	125	70-130	5	
Chlorobenzene	ug/L	ND	20	20	21.0	22.2	105	111	70-130	6	
Chloroethane	ug/L	3.3	20	20	31.2	32.6	140	147	70-130	5	M0
Chloroform	ug/L	ND	20	20	22.5	23.3	113	117	70-130	3	
Chloromethane	ug/L	ND	20	20	23.2	23.2	116	116	70-130	.05	
cis-1,2-Dichloroethene	ug/L	80.2	20	20	48.5	51.0	-158	-146	70-130	5	M0
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.9	18.5	85	93	70-130	9	
Dibromochloromethane	ug/L	ND	20	20	18.4	19.5	92	97	70-130	6	
Ethylbenzene	ug/L	ND	20	20	20.7	22.3	104	111	70-130	7	
m&p-Xylene	ug/L	ND	40	40	46.0	48.4	115	121	70-130	5	
Methylene Chloride	ug/L	ND	20	20	18.9	20.0	95	100	70-130	6	
o-Xylene	ug/L	ND	20	20	20.5	21.7	102	109	70-130	6	
Styrene	ug/L	ND	20	20	22.1	23.6	110	118	70-130	7	
Tetrachloroethene	ug/L	ND	20	20	20.8	21.5	104	107	70-130	3	
Toluene	ug/L	ND	20	20	20.8	21.7	104	108	70-130	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	21.0	22.0	105	110	70-130	5	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.5	19.0	88	95	70-130	8	
Trichloroethene	ug/L	47.8	20	20	21.1	21.8	-134	-130	70-130	4	M0
Trichlorofluoromethane	ug/L	ND	20	20	38.8	37.9	194	190	70-130	2	M0
Vinyl chloride	ug/L	16.1	20	20	49.8	52.7	169	183	70-130	6	M0
1,2-Dichloroethane-d4 (S)	%						121	121	70-130		
4-Bromofluorobenzene (S)	%						94	95	70-130		
Toluene-d8 (S)	%						92	94	70-130		

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016586

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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Greensburg, PA 15601
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568453.40000
Pace Project No.: 3016586

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3016586001	**MW-20**	EPA 8260	MSV/3910		
3016586002	**MW-22D**	EPA 8260	MSV/3910		
3016586003	**MW-21D**	EPA 8260	MSV/3910		
3016586004	**TB-02**	EPA 8260	MSV/3910		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

129571

Section A Required Client Information:

Company: URS CORP
Address: 501 HOLIDAY DR FOSTER PLAZA 4, STE. 900
PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4720 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41568453
Project Name: ESSEX/HOPE ANNUAL PHP SAMPLING
Project Number: 41568453, 40000

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-20	WT	G			10/7/09	1015		3				X					X		001
2	MW-22D	WT	G				1040		3				X					X		002
3	MW-21D	WT	G				1120		3				X					X		003
4	TB-02	WT	G			10/7/09	—		2				X					X		004
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Requested Analysis Filtered (Y/N)

301586

Pace Project No./ Lab I.D.

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
ANNUAL PHP SAMPLING	Valerie Sibeto/URS	10.7.09		Fed Ex	10.7.09					
				Fed Ex - C University Place	10.8.09	1000	4.0	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: Valerie Sibeto DATE Signed (MM/DD/YY): 10.7.09

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

CRW

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 3016586

Courier: ☑ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 3 (4) Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 4.0 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: CRW 10-8

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	(Yes) No N/A	1.
Chain of Custody Filled Out:	(Yes) No N/A	2.
Chain of Custody Relinquished:	(Yes) No N/A	3.
Sampler Name & Signature on COC:	(Yes) No N/A	4.
Samples Arrived within Hold Time:	(Yes) No N/A	5.
Short Hold Time Analysis (<72hr):	Yes (No) N/A	6.
Rush Turn Around Time Requested:	Yes (No) N/A	7.
Sufficient Volume:	(Yes) No N/A	8.
Correct Containers Used:	(Yes) No N/A	9.
-Pace Containers Used:	(Yes) No N/A	
Containers Intact:	(Yes) No N/A	10.
Filtered volume received for Dissolved tests	Yes (No) N/A	11.
Sample Labels match COC:	(Yes) No N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	(Yes) No N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	(Yes) No N/A	
exceptions: (VOA), coliform, TOC, O&G, WI-DRO (water)	(Yes) No	Initial when completed CRW / Lot # of added preservative
Samples checked for dechlorination:	Yes No (N/A)	14.
Headspace in VOA Vials (>6mm):	Yes (No) N/A	15.
Trip Blank Present:	(Yes) No N/A	16.
Trip Blank Custody Seals Present	(Yes) No N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Kaelyn Sylvester **Date:** 10/8/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

APPENDIX B-3

2009 MONTHLY POTW INFLUENT/EFFLUENT SAMPLE DATA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

February 10, 2009

Mr. Mark Dowiak
URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

RE: Project: 41568140.4000 Essex-Hope
Pace Project No.: 304657

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on January 31, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 41568140.4000 Essex-Hope
Pace Project No.: 304657

Pennsylvania Certification IDs

Wyoming Certification #: 8TMS-Q
Wisconsin/PADEP Certification
West Virginia Certification #: 143
Washington Certification #: C1941
Virginia Certification #: 00112
Virgin Island/PADEP Certification
Utah/NELAC Certification #: ANTE
Texas/NELAC Certification #: T104704188-09 TX
Tennessee Certification #: TN2867
South Dakota Certification
South Carolina Certification #: 89010002
Pennsylvania/NELAC Certification #: 65-282
Oregon/NELAC Certification #: PA200002
North Carolina Certification #: 42706
New York/NELAC Certification #: 10888
New Mexico Certification
New Jersey/NELAC Certification #: PA 051
New Hampshire/NELAC Certification #: 2976
Nevada Certification
Montana Certification #: Cert 0082
Missouri Certification #: 235
Minnesota Certification #: 042-999-425
Michigan/PADEP Certification
Massachusetts Certification #: M-PA1457
Maryland Certification #: 308
Maine Certification #: PA0091
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Kentucky Certification #: 90133
Kansas/NELAC Certification #: E-10358
Iowa Certification #: 391
Indiana/PADEP Certification
Illinois/PADEP Certification
Idaho Certification
Hawaii/PADEP Certification
Guam/PADEP Certification
Georgia Certification #: 968
Florida/NELAC Certification #: E87683
Delaware Certification
Connecticut Certification #: PH 0694
Colorado Certification
California/NELAC Certification #: 04222CA
Arkansas Certification
Arizona Certification #: AZ0734
Alabama Certification #: 41590

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SAMPLE ANALYTE COUNT

Project: 41568140.4000 Essex-Hope
Pace Project No.: 304657

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
304657001	**Pre-Carb**	EPA 8260	EAC	42	PASI-PA
304657002	**Primary-Eff**	EPA 8260	EAC	42	PASI-PA
304657003	**Post-Carb**	EPA 8260	EAC	42	PASI-PA
304657007	**TB-01**	EPA 8260	EAC	42	PASI-PA

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ANALYTICAL RESULTS

Project: 41568140.4000 Essex-Hope
Pace Project No.: 304657

Sample: Pre-Carb **Lab ID: 304657001** Collected: 01/30/09 11:50 Received: 01/31/09 11:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/02/09 20:55	67-64-1	
Benzene	**7.9**	ug/L	1.0	1		02/02/09 20:55	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		02/02/09 20:55	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/02/09 20:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/02/09 20:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/02/09 20:55	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		02/02/09 20:55	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/02/09 20:55	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/02/09 20:55	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/02/09 20:55	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/02/09 20:55	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/02/09 20:55	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		02/02/09 20:55	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/02/09 20:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/02/09 20:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/02/09 20:55	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/02/09 20:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/02/09 20:55	107-06-2	
1,1-Dichloroethene	**15.8**	ug/L	5.0	1		02/02/09 20:55	75-35-4	
cis-1,2-Dichloroethene	**4860**	ug/L	200	40		02/03/09 20:10	156-59-2	
trans-1,2-Dichloroethene	**34.7**	ug/L	5.0	1		02/02/09 20:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/02/09 20:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/02/09 20:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/02/09 20:55	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/02/09 20:55	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/02/09 20:55	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		02/02/09 20:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/02/09 20:55	108-10-1	
Styrene	ND	ug/L	5.0	1		02/02/09 20:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/02/09 20:55	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/02/09 20:55	127-18-4	
Toluene	ND	ug/L	5.0	1		02/02/09 20:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/02/09 20:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/02/09 20:55	79-00-5	
Trichloroethene	**1660**	ug/L	200	40		02/03/09 20:10	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/02/09 20:55	75-69-4	
Vinyl chloride	**538**	ug/L	40.0	40		02/03/09 20:10	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		02/02/09 20:55	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		02/02/09 20:55	95-47-6	
4-Bromofluorobenzene (S)	104	%	70-130	1		02/02/09 20:55	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		02/02/09 20:55	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		02/02/09 20:55	2037-26-5	

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: 41568140.4000 Essex-Hope
Pace Project No.: 304657

Sample: Primary-Eff **Lab ID: 304657002** Collected: 01/30/09 11:55 Received: 01/31/09 11:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/02/09 21:22	67-64-1	
Benzene	ND	ug/L	1.0	1		02/02/09 21:22	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		02/02/09 21:22	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/02/09 21:22	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/02/09 21:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/02/09 21:22	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		02/02/09 21:22	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/02/09 21:22	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/02/09 21:22	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/02/09 21:22	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/02/09 21:22	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/02/09 21:22	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		02/02/09 21:22	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/02/09 21:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/02/09 21:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/02/09 21:22	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/02/09 21:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/02/09 21:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/02/09 21:22	75-35-4	
cis-1,2-Dichloroethene	**138**	ug/L	5.0	1		02/02/09 21:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/02/09 21:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/02/09 21:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/02/09 21:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/02/09 21:22	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/02/09 21:22	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/02/09 21:22	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		02/02/09 21:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/02/09 21:22	108-10-1	
Styrene	ND	ug/L	5.0	1		02/02/09 21:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/02/09 21:22	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/02/09 21:22	127-18-4	
Toluene	ND	ug/L	5.0	1		02/02/09 21:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/02/09 21:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/02/09 21:22	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/02/09 21:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/02/09 21:22	75-69-4	
Vinyl chloride	**813**	ug/L	20.0	20		02/03/09 20:36	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		02/02/09 21:22	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		02/02/09 21:22	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		02/02/09 21:22	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		02/02/09 21:22	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		02/02/09 21:22	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 41568140.4000 Essex-Hope
Pace Project No.: 304657

Sample: Post-Carb **Lab ID: 304657003** Collected: 01/30/09 12:00 Received: 01/31/09 11:20 Matrix: Water

Comments: • The Post-Carb sample was composited prior to analysis.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/02/09 21:48	67-64-1	
Benzene	ND	ug/L	1.0	1		02/02/09 21:48	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		02/02/09 21:48	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/02/09 21:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/02/09 21:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/02/09 21:48	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		02/02/09 21:48	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/02/09 21:48	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/02/09 21:48	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/02/09 21:48	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/02/09 21:48	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/02/09 21:48	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		02/02/09 21:48	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/02/09 21:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/02/09 21:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/02/09 21:48	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/02/09 21:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/02/09 21:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/02/09 21:48	75-35-4	
cis-1,2-Dichloroethene	**227**	ug/L	5.0	1		02/02/09 21:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/02/09 21:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/02/09 21:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/02/09 21:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/02/09 21:48	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/02/09 21:48	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/02/09 21:48	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		02/02/09 21:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/02/09 21:48	108-10-1	
Styrene	ND	ug/L	5.0	1		02/02/09 21:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/02/09 21:48	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/02/09 21:48	127-18-4	
Toluene	ND	ug/L	5.0	1		02/02/09 21:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/02/09 21:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/02/09 21:48	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/02/09 21:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/02/09 21:48	75-69-4	
Vinyl chloride	**7.4**	ug/L	1.0	1		02/02/09 21:48	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		02/02/09 21:48	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		02/02/09 21:48	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		02/02/09 21:48	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		02/02/09 21:48	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		02/02/09 21:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 41568140.4000 Essex-Hope
Pace Project No.: 304657

Sample: TB-01 **Lab ID: 304657007** Collected: 01/30/09 00:00 Received: 01/31/09 11:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		02/02/09 20:01	67-64-1	
Benzene	ND	ug/L	1.0	1		02/02/09 20:01	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		02/02/09 20:01	75-27-4	
Bromoform	ND	ug/L	5.0	1		02/02/09 20:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		02/02/09 20:01	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		02/02/09 20:01	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		02/02/09 20:01	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		02/02/09 20:01	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		02/02/09 20:01	108-90-7	
Chloroethane	ND	ug/L	5.0	1		02/02/09 20:01	75-00-3	
Chloroform	ND	ug/L	5.0	1		02/02/09 20:01	67-66-3	
Chloromethane	ND	ug/L	5.0	1		02/02/09 20:01	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		02/02/09 20:01	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		02/02/09 20:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		02/02/09 20:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		02/02/09 20:01	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		02/02/09 20:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		02/02/09 20:01	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		02/02/09 20:01	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		02/02/09 20:01	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		02/02/09 20:01	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		02/02/09 20:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		02/02/09 20:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		02/02/09 20:01	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		02/02/09 20:01	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		02/02/09 20:01	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		02/02/09 20:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		02/02/09 20:01	108-10-1	
Styrene	ND	ug/L	5.0	1		02/02/09 20:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		02/02/09 20:01	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		02/02/09 20:01	127-18-4	
Toluene	ND	ug/L	5.0	1		02/02/09 20:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		02/02/09 20:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		02/02/09 20:01	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		02/02/09 20:01	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		02/02/09 20:01	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		02/02/09 20:01	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		02/02/09 20:01	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		02/02/09 20:01	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130	1		02/02/09 20:01	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		02/02/09 20:01	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		02/02/09 20:01	2037-26-5	

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QUALITY CONTROL DATA

Project: 41568140.4000 Essex-Hope
Pace Project No.: 304657

QC Batch: MSV/1597 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 304657001, 304657002, 304657003, 304657007

METHOD BLANK: 24024 Matrix: Water
Associated Lab Samples: 304657001, 304657002, 304657003, 304657007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	02/02/09 19:34	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	02/02/09 19:34	
1,1,2-Trichloroethane	ug/L	ND	5.0	02/02/09 19:34	
1,1-Dichloroethane	ug/L	ND	5.0	02/02/09 19:34	
1,1-Dichloroethene	ug/L	ND	5.0	02/02/09 19:34	
1,2-Dichlorobenzene	ug/L	ND	5.0	02/02/09 19:34	
1,2-Dichloroethane	ug/L	ND	5.0	02/02/09 19:34	
1,2-Dichloropropane	ug/L	ND	5.0	02/02/09 19:34	
1,3-Dichlorobenzene	ug/L	ND	5.0	02/02/09 19:34	
1,4-Dichlorobenzene	ug/L	ND	5.0	02/02/09 19:34	
2-Butanone (MEK)	ug/L	ND	10.0	02/02/09 19:34	
2-Hexanone	ug/L	ND	10.0	02/02/09 19:34	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	02/02/09 19:34	
Acetone	ug/L	ND	10.0	02/02/09 19:34	
Benzene	ug/L	ND	1.0	02/02/09 19:34	
Bromodichloromethane	ug/L	ND	5.0	02/02/09 19:34	
Bromoform	ug/L	ND	5.0	02/02/09 19:34	
Bromomethane	ug/L	ND	5.0	02/02/09 19:34	
Carbon disulfide	ug/L	ND	5.0	02/02/09 19:34	
Carbon tetrachloride	ug/L	ND	5.0	02/02/09 19:34	
Chlorobenzene	ug/L	ND	5.0	02/02/09 19:34	
Chloroethane	ug/L	ND	5.0	02/02/09 19:34	
Chloroform	ug/L	ND	5.0	02/02/09 19:34	
Chloromethane	ug/L	ND	5.0	02/02/09 19:34	B
cis-1,2-Dichloroethene	ug/L	ND	5.0	02/02/09 19:34	
cis-1,3-Dichloropropene	ug/L	ND	5.0	02/02/09 19:34	
Dibromochloromethane	ug/L	ND	5.0	02/02/09 19:34	
Ethylbenzene	ug/L	ND	5.0	02/02/09 19:34	
m&p-Xylene	ug/L	ND	5.0	02/02/09 19:34	
Methylene Chloride	ug/L	ND	5.0	02/02/09 19:34	
o-Xylene	ug/L	ND	5.0	02/02/09 19:34	
Styrene	ug/L	ND	5.0	02/02/09 19:34	
Tetrachloroethene	ug/L	ND	5.0	02/02/09 19:34	
Toluene	ug/L	ND	5.0	02/02/09 19:34	
trans-1,2-Dichloroethene	ug/L	ND	5.0	02/02/09 19:34	
trans-1,3-Dichloropropene	ug/L	ND	5.0	02/02/09 19:34	
Trichloroethene	ug/L	ND	5.0	02/02/09 19:34	
Trichlorofluoromethane	ug/L	ND	5.0	02/02/09 19:34	
Vinyl chloride	ug/L	ND	1.0	02/02/09 19:34	
1,2-Dichloroethane-d4 (S)	%	94	70-130	02/02/09 19:34	
4-Bromofluorobenzene (S)	%	105	70-130	02/02/09 19:34	
Toluene-d8 (S)	%	98	70-130	02/02/09 19:34	

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QUALITY CONTROL DATA

Project: 41568140.4000 Essex-Hope
Pace Project No.: 304657

LABORATORY CONTROL SAMPLE: 24025

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.6	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.2	101	70-130	
1,1,2-Trichloroethane	ug/L	20	21.0	105	70-130	
1,1-Dichloroethane	ug/L	20	19.5	98	70-130	
1,1-Dichloroethene	ug/L	20	18.3	92	70-130	
1,2-Dichlorobenzene	ug/L	20	21.3	106	70-130	
1,2-Dichloroethane	ug/L	20	18.1	90	70-130	
1,2-Dichloropropane	ug/L	20	20.0	100	70-130	
1,3-Dichlorobenzene	ug/L	20	21.1	105	70-130	
1,4-Dichlorobenzene	ug/L	20	21.1	105	70-130	
2-Butanone (MEK)	ug/L	20	18.5	92	70-130	
2-Hexanone	ug/L	20	19.4	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.4	92	70-130	
Acetone	ug/L	20	19.6	98	70-130	
Benzene	ug/L	20	20.1	101	70-130	
Bromodichloromethane	ug/L	20	20.2	101	70-130	
Bromoform	ug/L	20	19.2	96	70-130	
Bromomethane	ug/L	20	42.1	211	70-130	L0
Carbon disulfide	ug/L	20	18.8	94	70-130	
Carbon tetrachloride	ug/L	20	20.9	105	70-130	
Chlorobenzene	ug/L	20	20.4	102	70-130	
Chloroethane	ug/L	20	16.9	84	70-130	
Chloroform	ug/L	20	20.0	100	70-130	
Chloromethane	ug/L	20	17.5	87	70-130	
cis-1,2-Dichloroethene	ug/L	20	20.5	102	70-130	
cis-1,3-Dichloropropene	ug/L	20	20.4	102	70-130	
Dibromochloromethane	ug/L	20	20.7	103	70-130	
Ethylbenzene	ug/L	20	20.3	102	70-130	
m&p-Xylene	ug/L	40	41.7	104	70-130	
Methylene Chloride	ug/L	20	18.7	93	70-130	
o-Xylene	ug/L	20	20.6	103	70-130	
Styrene	ug/L	20	20.3	101	70-130	
Tetrachloroethene	ug/L	20	21.3	106	70-130	
Toluene	ug/L	20	20.1	100	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.3	92	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.9	105	70-130	
Trichloroethene	ug/L	20	20.1	101	70-130	
Trichlorofluoromethane	ug/L	20	17.3	87	70-130	
Vinyl chloride	ug/L	20	17.1	86	70-130	
1,2-Dichloroethane-d4 (S)	%			90	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALIFIERS

Project: 41568140.4000 Essex-Hope
Pace Project No.: 304657

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 41568140.4000 Essex-Hope
Pace Project No.: 304657

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
304657001	**Pre-Carb**	EPA 8260	MSV/1597		
304657002	**Primary-Eff**	EPA 8260	MSV/1597		
304657003	**Post-Carb**	EPA 8260	MSV/1597		
304657007	**TB-01**	EPA 8260	MSV/1597		

Pace Analytical Services, Inc.
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Greensburg, PA 15601
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March 13, 2009

Mr. Mark Dowiak
URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

RE: Project: Essex-Hope 41568453.10000
Pace Project No.: 306151

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on February 28, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope 41568453.10000
Pace Project No.: 306151

Pennsylvania Certification IDs

Wyoming Certification #: 8TMS-Q
Wisconsin/PADEP Certification
West Virginia Certification #: 143
Washington Certification #: C1941
Virginia Certification #: 00112
Virgin Island/PADEP Certification
Utah/NELAC Certification #: ANTE
Texas/NELAC Certification #: T104704188-09 TX
Tennessee Certification #: TN2867
South Dakota Certification
Pennsylvania/NELAC Certification #: 65-282
Oregon/NELAC Certification #: PA200002
North Carolina Certification #: 42706
New York/NELAC Certification #: 10888
New Mexico Certification
New Jersey/NELAC Certification #: PA 051
New Hampshire/NELAC Certification #: 2976
Nevada Certification
Montana Certification #: Cert 0082
Missouri Certification #: 235
Minnesota Certification #: 042-999-425
Michigan/PADEP Certification
Massachusetts Certification #: M-PA1457
Maryland Certification #: 308
Maine Certification #: PA0091
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Kentucky Certification #: 90133
Kansas/NELAC Certification #: E-10358
Iowa Certification #: 391
Indiana/PADEP Certification
Illinois/PADEP Certification
Idaho Certification
Hawaii/PADEP Certification
Guam/PADEP Certification
Georgia Certification #: 968
Florida/NELAC Certification #: E87683
Delaware Certification
Connecticut Certification #: PH 0694
Colorado Certification
California/NELAC Certification #: 04222CA
Arkansas Certification
Arizona Certification #: AZ0734
Alabama Certification #: 41590

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SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568453.10000
Pace Project No.: 306151

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
306151001	**PRE-CARB**	EPA 8260	EAC, JAS	42	PASI-PA
306151002	**PRIMARY-EFF**	EPA 8260	EAC, JAS	42	PASI-PA
306151003	**POST-CARB**	EPA 8260	JAS	42	PASI-PA
306151004	**TB-01**	EPA 8260	JAS	42	PASI-PA

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 306151

Sample: PRE-CARB **Lab ID: 306151001** Collected: 02/27/09 09:50 Received: 02/28/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		03/05/09 15:28	67-64-1	
Benzene	**5.1**	ug/L	1.0	1		03/05/09 15:28	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/05/09 15:28	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/05/09 15:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/05/09 15:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/05/09 15:28	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		03/05/09 15:28	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/05/09 15:28	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/05/09 15:28	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/05/09 15:28	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/05/09 15:28	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/05/09 15:28	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/05/09 15:28	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/05/09 15:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/05/09 15:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/05/09 15:28	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/05/09 15:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/05/09 15:28	107-06-2	
1,1-Dichloroethene	**14.7**	ug/L	5.0	1		03/05/09 15:28	75-35-4	
cis-1,2-Dichloroethene	**3000**	ug/L	100	20		03/12/09 13:33	156-59-2	
trans-1,2-Dichloroethene	**25.2**	ug/L	5.0	1		03/05/09 15:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/05/09 15:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/05/09 15:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/05/09 15:28	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/05/09 15:28	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/05/09 15:28	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		03/05/09 15:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/05/09 15:28	108-10-1	
Styrene	ND	ug/L	5.0	1		03/05/09 15:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/05/09 15:28	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/05/09 15:28	127-18-4	
Toluene	ND	ug/L	5.0	1		03/05/09 15:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/05/09 15:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/05/09 15:28	79-00-5	
Trichloroethene	**1310**	ug/L	100	20		03/12/09 13:33	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/05/09 15:28	75-69-4	
Vinyl chloride	**383**	ug/L	1.0	1		03/05/09 15:28	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		03/05/09 15:28	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		03/05/09 15:28	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		03/05/09 15:28	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		03/05/09 15:28	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		03/05/09 15:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 306151

Sample: PRIMARY-EFF **Lab ID: 306151002** Collected: 02/27/09 09:55 Received: 02/28/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		03/05/09 15:54	67-64-1	
Benzene	ND	ug/L	1.0	1		03/05/09 15:54	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/05/09 15:54	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/05/09 15:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/05/09 15:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/05/09 15:54	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		03/05/09 15:54	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/05/09 15:54	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/05/09 15:54	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/05/09 15:54	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/05/09 15:54	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/05/09 15:54	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/05/09 15:54	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/05/09 15:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/05/09 15:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/05/09 15:54	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/05/09 15:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/05/09 15:54	107-06-2	
1,1-Dichloroethene	**6.4**	ug/L	5.0	1		03/05/09 15:54	75-35-4	
cis-1,2-Dichloroethene	**2470**	ug/L	100	20		03/12/09 13:07	156-59-2	
trans-1,2-Dichloroethene	**7.7**	ug/L	5.0	1		03/05/09 15:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/05/09 15:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/05/09 15:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/05/09 15:54	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/05/09 15:54	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/05/09 15:54	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		03/05/09 15:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/05/09 15:54	108-10-1	
Styrene	ND	ug/L	5.0	1		03/05/09 15:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/05/09 15:54	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/05/09 15:54	127-18-4	
Toluene	ND	ug/L	5.0	1		03/05/09 15:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/05/09 15:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/05/09 15:54	79-00-5	
Trichloroethene	**20.8**	ug/L	5.0	1		03/05/09 15:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/05/09 15:54	75-69-4	
Vinyl chloride	**365**	ug/L	1.0	1		03/05/09 15:54	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		03/05/09 15:54	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		03/05/09 15:54	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		03/05/09 15:54	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%	70-130	1		03/05/09 15:54	17060-07-0	
Toluene-d8 (S)	93	%	70-130	1		03/05/09 15:54	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 306151

Sample: POST-CARB **Lab ID: 306151003** Collected: 02/27/09 10:00 Received: 02/28/09 10:00 Matrix: Water

Comments: • The sample was composited prior to analysis.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		03/05/09 16:19	67-64-1	
Benzene	ND	ug/L	1.0	1		03/05/09 16:19	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/05/09 16:19	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/05/09 16:19	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/05/09 16:19	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/05/09 16:19	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		03/05/09 16:19	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/05/09 16:19	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/05/09 16:19	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/05/09 16:19	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/05/09 16:19	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/05/09 16:19	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/05/09 16:19	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/05/09 16:19	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/05/09 16:19	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/05/09 16:19	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/05/09 16:19	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/05/09 16:19	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/05/09 16:19	75-35-4	
cis-1,2-Dichloroethene	**119**	ug/L	5.0	1		03/05/09 16:19	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/05/09 16:19	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/05/09 16:19	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/05/09 16:19	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/05/09 16:19	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/05/09 16:19	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/05/09 16:19	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		03/05/09 16:19	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/05/09 16:19	108-10-1	
Styrene	ND	ug/L	5.0	1		03/05/09 16:19	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/05/09 16:19	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/05/09 16:19	127-18-4	
Toluene	ND	ug/L	5.0	1		03/05/09 16:19	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/05/09 16:19	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/05/09 16:19	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/05/09 16:19	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/05/09 16:19	75-69-4	
Vinyl chloride	**288**	ug/L	1.0	1		03/05/09 16:19	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		03/05/09 16:19	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		03/05/09 16:19	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130	1		03/05/09 16:19	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		03/05/09 16:19	17060-07-0	
Toluene-d8 (S)	93	%	70-130	1		03/05/09 16:19	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 306151

Sample: TB-01 **Lab ID: 306151004** Collected: 02/27/09 00:00 Received: 02/28/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		03/05/09 15:02	67-64-1	
Benzene	ND	ug/L	1.0	1		03/05/09 15:02	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/05/09 15:02	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/05/09 15:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/05/09 15:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/05/09 15:02	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		03/05/09 15:02	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/05/09 15:02	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/05/09 15:02	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/05/09 15:02	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/05/09 15:02	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/05/09 15:02	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/05/09 15:02	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/05/09 15:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/05/09 15:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/05/09 15:02	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/05/09 15:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/05/09 15:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/05/09 15:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/05/09 15:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/05/09 15:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/05/09 15:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/05/09 15:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/05/09 15:02	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/05/09 15:02	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/05/09 15:02	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		03/05/09 15:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/05/09 15:02	108-10-1	
Styrene	ND	ug/L	5.0	1		03/05/09 15:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/05/09 15:02	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/05/09 15:02	127-18-4	
Toluene	ND	ug/L	5.0	1		03/05/09 15:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/05/09 15:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/05/09 15:02	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/05/09 15:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/05/09 15:02	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		03/05/09 15:02	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		03/05/09 15:02	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		03/05/09 15:02	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		03/05/09 15:02	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1		03/05/09 15:02	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		03/05/09 15:02	2037-26-5	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 306151

QC Batch: MSV/1828 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 306151001, 306151002, 306151003, 306151004

METHOD BLANK: 33805 Matrix: Water
Associated Lab Samples: 306151001, 306151002, 306151003, 306151004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/05/09 14:36	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/05/09 14:36	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/05/09 14:36	
1,1-Dichloroethane	ug/L	ND	5.0	03/05/09 14:36	
1,1-Dichloroethene	ug/L	ND	5.0	03/05/09 14:36	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/05/09 14:36	
1,2-Dichloroethane	ug/L	ND	5.0	03/05/09 14:36	
1,2-Dichloropropane	ug/L	ND	5.0	03/05/09 14:36	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/05/09 14:36	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/05/09 14:36	
2-Butanone (MEK)	ug/L	ND	10.0	03/05/09 14:36	
2-Hexanone	ug/L	ND	10.0	03/05/09 14:36	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/05/09 14:36	
Acetone	ug/L	ND	10.0	03/05/09 14:36	
Benzene	ug/L	ND	1.0	03/05/09 14:36	
Bromodichloromethane	ug/L	ND	5.0	03/05/09 14:36	
Bromoform	ug/L	ND	5.0	03/05/09 14:36	
Bromomethane	ug/L	ND	5.0	03/05/09 14:36	
Carbon disulfide	ug/L	ND	5.0	03/05/09 14:36	
Carbon tetrachloride	ug/L	ND	5.0	03/05/09 14:36	
Chlorobenzene	ug/L	ND	5.0	03/05/09 14:36	
Chloroethane	ug/L	ND	5.0	03/05/09 14:36	
Chloroform	ug/L	ND	5.0	03/05/09 14:36	
Chloromethane	ug/L	ND	5.0	03/05/09 14:36	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/05/09 14:36	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/05/09 14:36	
Dibromochloromethane	ug/L	ND	5.0	03/05/09 14:36	
Ethylbenzene	ug/L	ND	5.0	03/05/09 14:36	
m&p-Xylene	ug/L	ND	5.0	03/05/09 14:36	
Methylene Chloride	ug/L	ND	5.0	03/05/09 14:36	
o-Xylene	ug/L	ND	5.0	03/05/09 14:36	
Styrene	ug/L	ND	5.0	03/05/09 14:36	
Tetrachloroethene	ug/L	ND	5.0	03/05/09 14:36	
Toluene	ug/L	ND	5.0	03/05/09 14:36	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/05/09 14:36	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/05/09 14:36	
Trichloroethene	ug/L	ND	5.0	03/05/09 14:36	
Trichlorofluoromethane	ug/L	ND	5.0	03/05/09 14:36	
Vinyl chloride	ug/L	ND	1.0	03/05/09 14:36	
1,2-Dichloroethane-d4 (S)	%	114	70-130	03/05/09 14:36	
4-Bromofluorobenzene (S)	%	103	70-130	03/05/09 14:36	
Toluene-d8 (S)	%	92	70-130	03/05/09 14:36	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 306151

LABORATORY CONTROL SAMPLE: 33806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.6	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.9	90	70-130	
1,1,2-Trichloroethane	ug/L	20	21.6	108	70-130	
1,1-Dichloroethane	ug/L	20	18.9	94	70-130	
1,1-Dichloroethene	ug/L	20	15.0	75	70-130	
1,2-Dichlorobenzene	ug/L	20	20.5	103	70-130	
1,2-Dichloroethane	ug/L	20	21.8	109	70-130	
1,2-Dichloropropane	ug/L	20	18.1	90	70-130	
1,3-Dichlorobenzene	ug/L	20	20.7	103	70-130	
1,4-Dichlorobenzene	ug/L	20	20.9	105	70-130	
2-Butanone (MEK)	ug/L	20	20.9	104	70-130	
2-Hexanone	ug/L	20	19.0	95	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.9	104	70-130	
Acetone	ug/L	20	19.2	96	70-130	
Benzene	ug/L	20	17.1	85	70-130	
Bromodichloromethane	ug/L	20	19.9	100	70-130	
Bromoform	ug/L	20	21.3	107	70-130	
Bromomethane	ug/L	20	28.6	143	70-130	L0
Carbon disulfide	ug/L	20	23.6	118	70-130	
Carbon tetrachloride	ug/L	20	20.0	100	70-130	
Chlorobenzene	ug/L	20	21.2	106	70-130	
Chloroethane	ug/L	20	20.5	103	70-130	
Chloroform	ug/L	20	22.5	113	70-130	
Chloromethane	ug/L	20	21.2	106	70-130	
cis-1,2-Dichloroethene	ug/L	20	21.2	106	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.8	94	70-130	
Dibromochloromethane	ug/L	20	20.2	101	70-130	
Ethylbenzene	ug/L	20	20.7	104	70-130	
m&p-Xylene	ug/L	40	41.9	105	70-130	
Methylene Chloride	ug/L	20	17.6	88	70-130	
o-Xylene	ug/L	20	19.7	98	70-130	
Styrene	ug/L	20	20.3	101	70-130	
Tetrachloroethene	ug/L	20	21.1	105	70-130	
Toluene	ug/L	20	19.2	96	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.2	91	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.1	101	70-130	
Trichloroethene	ug/L	20	18.2	91	70-130	
Trichlorofluoromethane	ug/L	20	22.6	113	70-130	
Vinyl chloride	ug/L	20	19.0	95	70-130	
1,2-Dichloroethane-d4 (S)	%			109	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			99	70-130	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Essex-Hope 41568453.10000
Pace Project No.: 306151

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568453.10000
Pace Project No.: 306151

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
306151001	**PRE-CARB**	EPA 8260	MSV/1828		
306151002	**PRIMARY-EFF**	EPA 8260	MSV/1828		
306151003	**POST-CARB**	EPA 8260	MSV/1828		
306151004	**TB-01**	EPA 8260	MSV/1828		

Pace Analytical®
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1215176

Section A
Required Client Information:

Company:	URS CORP
Address:	501 HOLIDAY DR. FOSTER PLAZA 4 STE. 300
	PITTSBURGH, PA 15220
Email To:	
Phone: 412-503-4700	Fax: 412-503-4701
Requested Due Date/TAT:	STANDARD

Section B
Required Project Information:

Report To:	MARK DOWIAK
Copy To:	VALERIE SIBETO
Purchase Order No.:	41568453
Project Name:	ESSEX/HOPE JAMESTOWN
Project Number:	41568453.10000

Section C
Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: NY

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes
MATRIX / CODE

Matrix	Code
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 306151
1	PRE-CARB	WT	G			2.27.09	0950		3				X						X		306151 001
2	PRIMARY-EFF	↓	↓			↓	0955		3				X						X		002
3	POST-CARB	↓	↓			↓	1000		3				X						X		003
4	POST-CARB	↓	↓			↓	1030		3				X						X		↑
5	POST-CARB	↓	↓			↓	1100		3				X						X		↕
6	POST-CARB	↓	↓			↓	1130		3				X						X		↓
7	TB-01	↓	↓			2.27.09	—		1				X						X		004
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COMPOSITE FOUR (4)	Valerie Sibeto/URS	2.27.08	1150	FedEx #865644539204	2.27.09	1150				
POST-CARB SAMPLES IN	FedEx			Justine M Pile	2/28/09	1000	5.4	Y	N	Y
LAB AND REPORT AS										
POST-CARB COMPOSITE.							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: Valerie Sibeto

DATE Signed (MM/DD/YY): 2.27.09

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 306151

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8056 0446 3920 4

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used: 3 (4) Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 5.4 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: JP 2/28/09

Temp should be above freezing to 6°C Comments:

Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: Ag				
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes	☐No		Initial when completed: JP Lot # of added preservative:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☑Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Raelyn E Shooter **Date:** 3/2/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

April 03, 2009

Mr. Mark Dowiak
URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

RE: Project: Essex-Hope 41568453.10000
Pace Project No.: 307381

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope 41568453.10000
Pace Project No.: 307381

Pennsylvania Certification IDs

Wyoming Certification #: 8TMS-Q
Wisconsin/PADEP Certification
West Virginia Certification #: 143
Washington Certification #: C1941
Virginia Certification #: 00112
Virgin Island/PADEP Certification
Utah/NELAC Certification #: ANTE
Texas/NELAC Certification #: T104704188-09 TX
Tennessee Certification #: TN2867
South Dakota Certification
Pennsylvania/NELAC Certification #: 65-282
Oregon/NELAC Certification #: PA200002
North Carolina Certification #: 42706
New York/NELAC Certification #: 10888
New Mexico Certification
New Jersey/NELAC Certification #: PA 051
New Hampshire/NELAC Certification #: 2976
Nevada Certification
Montana Certification #: Cert 0082
Missouri Certification #: 235
Minnesota Certification #: 042-999-425
Michigan/PADEP Certification
Massachusetts Certification #: M-PA1457
Maryland Certification #: 308
Maine Certification #: PA0091
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Kentucky Certification #: 90133
Kansas/NELAC Certification #: E-10358
Iowa Certification #: 391
Indiana/PADEP Certification
Illinois/PADEP Certification
Idaho Certification
Hawaii/PADEP Certification
Guam/PADEP Certification
Georgia Certification #: 968
Florida/NELAC Certification #: E87683
Delaware Certification
Connecticut Certification #: PH 0694
Colorado Certification
California/NELAC Certification #: 04222CA
Arkansas Certification
Arizona Certification #: AZ0734
Alabama Certification #: 41590

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SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568453.10000
Pace Project No.: 307381

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
307381001	**PRE-CARB**	EPA 8260	EAC	42	PASI-PA
307381002	**PRIMARY-EFF**	EPA 8260	EAC	42	PASI-PA
307381003	**POST-CARB**	EPA 8260	EAC	42	PASI-PA
307381004	**TB-01**	EPA 8260	EAC	42	PASI-PA

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 307381

Sample: PRE-CARB **Lab ID: 307381001** Collected: 03/20/09 09:05 Received: 03/21/09 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		03/25/09 17:12	67-64-1	
Benzene	**4.9**	ug/L	1.0	1		03/25/09 17:12	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/25/09 17:12	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/25/09 17:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/25/09 17:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/25/09 17:12	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		03/25/09 17:12	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/25/09 17:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/25/09 17:12	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/25/09 17:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/25/09 17:12	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/25/09 17:12	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/25/09 17:12	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/25/09 17:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/25/09 17:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/25/09 17:12	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/25/09 17:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/25/09 17:12	107-06-2	
1,1-Dichloroethene	**10.4**	ug/L	5.0	1		03/25/09 17:12	75-35-4	
cis-1,2-Dichloroethene	**2440**	ug/L	50.0	10		03/25/09 17:39	156-59-2	
trans-1,2-Dichloroethene	**14.2**	ug/L	5.0	1		03/25/09 17:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/25/09 17:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/25/09 17:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/25/09 17:12	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/25/09 17:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/25/09 17:12	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		03/25/09 17:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/25/09 17:12	108-10-1	
Styrene	ND	ug/L	5.0	1		03/25/09 17:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/25/09 17:12	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/25/09 17:12	127-18-4	
Toluene	ND	ug/L	5.0	1		03/25/09 17:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/25/09 17:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/25/09 17:12	79-00-5	
Trichloroethene	**1420**	ug/L	50.0	10		03/25/09 17:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/25/09 17:12	75-69-4	
Vinyl chloride	**258**	ug/L	1.0	1		03/25/09 17:12	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		03/25/09 17:12	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		03/25/09 17:12	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		03/25/09 17:12	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		03/25/09 17:12	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		03/25/09 17:12	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 307381

Sample: PRIMARY-EFF **Lab ID: 307381002** Collected: 03/20/09 09:10 Received: 03/21/09 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		03/25/09 18:06	67-64-1	
Benzene	ND	ug/L	1.0	1		03/25/09 18:06	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/25/09 18:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/25/09 18:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/25/09 18:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/25/09 18:06	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		03/25/09 18:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/25/09 18:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/25/09 18:06	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/25/09 18:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/25/09 18:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/25/09 18:06	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/25/09 18:06	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/25/09 18:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/25/09 18:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/25/09 18:06	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/25/09 18:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/25/09 18:06	107-06-2	
1,1-Dichloroethene	**7.7**	ug/L	5.0	1		03/25/09 18:06	75-35-4	
cis-1,2-Dichloroethene	**3110**	ug/L	250	50		03/25/09 18:33	156-59-2	
trans-1,2-Dichloroethene	**5.8**	ug/L	5.0	1		03/25/09 18:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/25/09 18:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/25/09 18:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/25/09 18:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/25/09 18:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/25/09 18:06	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		03/25/09 18:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/25/09 18:06	108-10-1	
Styrene	ND	ug/L	5.0	1		03/25/09 18:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/25/09 18:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/25/09 18:06	127-18-4	
Toluene	ND	ug/L	5.0	1		03/25/09 18:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/25/09 18:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/25/09 18:06	79-00-5	
Trichloroethene	**64.1**	ug/L	5.0	1		03/25/09 18:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/25/09 18:06	75-69-4	
Vinyl chloride	**242**	ug/L	1.0	1		03/25/09 18:06	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		03/25/09 18:06	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		03/25/09 18:06	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		03/25/09 18:06	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		03/25/09 18:06	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		03/25/09 18:06	2037-26-5	

Pace Analytical Services, Inc.
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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 307381

Sample: POST-CARB **Lab ID: 307381003** Collected: 03/20/09 10:15 Received: 03/21/09 11:00 Matrix: Water

Comments: • VOA sample was composited prior to analysis.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		03/25/09 18:59	67-64-1	
Benzene	ND	ug/L	1.0	1		03/25/09 18:59	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/25/09 18:59	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/25/09 18:59	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/25/09 18:59	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/25/09 18:59	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		03/25/09 18:59	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/25/09 18:59	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/25/09 18:59	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/25/09 18:59	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/25/09 18:59	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/25/09 18:59	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/25/09 18:59	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/25/09 18:59	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/25/09 18:59	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/25/09 18:59	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/25/09 18:59	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/25/09 18:59	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/25/09 18:59	75-35-4	
cis-1,2-Dichloroethene	**95.9**	ug/L	5.0	1		03/25/09 18:59	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/25/09 18:59	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/25/09 18:59	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/25/09 18:59	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/25/09 18:59	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/25/09 18:59	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/25/09 18:59	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		03/25/09 18:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/25/09 18:59	108-10-1	
Styrene	ND	ug/L	5.0	1		03/25/09 18:59	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/25/09 18:59	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/25/09 18:59	127-18-4	
Toluene	ND	ug/L	5.0	1		03/25/09 18:59	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/25/09 18:59	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/25/09 18:59	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/25/09 18:59	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/25/09 18:59	75-69-4	
Vinyl chloride	**276**	ug/L	1.0	1		03/25/09 18:59	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		03/25/09 18:59	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		03/25/09 18:59	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		03/25/09 18:59	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		03/25/09 18:59	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		03/25/09 18:59	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 307381

Sample: TB-01 **Lab ID: 307381004** Collected: 03/20/09 00:00 Received: 03/21/09 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		03/25/09 16:46	67-64-1	
Benzene	ND	ug/L	1.0	1		03/25/09 16:46	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/25/09 16:46	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/25/09 16:46	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/25/09 16:46	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/25/09 16:46	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		03/25/09 16:46	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/25/09 16:46	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/25/09 16:46	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/25/09 16:46	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/25/09 16:46	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/25/09 16:46	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/25/09 16:46	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/25/09 16:46	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/25/09 16:46	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/25/09 16:46	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/25/09 16:46	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/25/09 16:46	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		03/25/09 16:46	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		03/25/09 16:46	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		03/25/09 16:46	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/25/09 16:46	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/25/09 16:46	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/25/09 16:46	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/25/09 16:46	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/25/09 16:46	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		03/25/09 16:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/25/09 16:46	108-10-1	
Styrene	ND	ug/L	5.0	1		03/25/09 16:46	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/25/09 16:46	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/25/09 16:46	127-18-4	
Toluene	ND	ug/L	5.0	1		03/25/09 16:46	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/25/09 16:46	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/25/09 16:46	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		03/25/09 16:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/25/09 16:46	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		03/25/09 16:46	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		03/25/09 16:46	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		03/25/09 16:46	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		03/25/09 16:46	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/25/09 16:46	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		03/25/09 16:46	2037-26-5	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 307381

QC Batch: MSV/2034 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 307381001, 307381002, 307381003, 307381004

METHOD BLANK: 41060 Matrix: Water
Associated Lab Samples: 307381001, 307381002, 307381003, 307381004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/25/09 14:29	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/25/09 14:29	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/25/09 14:29	
1,1-Dichloroethane	ug/L	ND	5.0	03/25/09 14:29	
1,1-Dichloroethene	ug/L	ND	5.0	03/25/09 14:29	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/25/09 14:29	
1,2-Dichloroethane	ug/L	ND	5.0	03/25/09 14:29	
1,2-Dichloropropane	ug/L	ND	5.0	03/25/09 14:29	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/25/09 14:29	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/25/09 14:29	
2-Butanone (MEK)	ug/L	ND	10.0	03/25/09 14:29	
2-Hexanone	ug/L	ND	10.0	03/25/09 14:29	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/25/09 14:29	
Acetone	ug/L	ND	10.0	03/25/09 14:29	
Benzene	ug/L	ND	1.0	03/25/09 14:29	
Bromodichloromethane	ug/L	ND	5.0	03/25/09 14:29	
Bromoform	ug/L	ND	5.0	03/25/09 14:29	
Bromomethane	ug/L	ND	5.0	03/25/09 14:29	
Carbon disulfide	ug/L	ND	5.0	03/25/09 14:29	
Carbon tetrachloride	ug/L	ND	5.0	03/25/09 14:29	
Chlorobenzene	ug/L	ND	5.0	03/25/09 14:29	
Chloroethane	ug/L	ND	5.0	03/25/09 14:29	
Chloroform	ug/L	ND	5.0	03/25/09 14:29	
Chloromethane	ug/L	ND	5.0	03/25/09 14:29	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/25/09 14:29	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/25/09 14:29	
Dibromochloromethane	ug/L	ND	5.0	03/25/09 14:29	
Ethylbenzene	ug/L	ND	5.0	03/25/09 14:29	
m&p-Xylene	ug/L	ND	5.0	03/25/09 14:29	
Methylene Chloride	ug/L	ND	5.0	03/25/09 14:29	
o-Xylene	ug/L	ND	5.0	03/25/09 14:29	
Styrene	ug/L	ND	5.0	03/25/09 14:29	
Tetrachloroethene	ug/L	ND	5.0	03/25/09 14:29	
Toluene	ug/L	ND	5.0	03/25/09 14:29	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/25/09 14:29	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/25/09 14:29	
Trichloroethene	ug/L	ND	5.0	03/25/09 14:29	
Trichlorofluoromethane	ug/L	ND	5.0	03/25/09 14:29	
Vinyl chloride	ug/L	ND	1.0	03/25/09 14:29	
1,2-Dichloroethane-d4 (S)	%	101	70-130	03/25/09 14:29	
4-Bromofluorobenzene (S)	%	99	70-130	03/25/09 14:29	
Toluene-d8 (S)	%	99	70-130	03/25/09 14:29	

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 307381

LABORATORY CONTROL SAMPLE: 41061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.6	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.1	100	70-130	
1,1,2-Trichloroethane	ug/L	20	19.9	99	70-130	
1,1-Dichloroethane	ug/L	20	21.7	109	70-130	
1,1-Dichloroethene	ug/L	20	18.7	94	70-130	
1,2-Dichlorobenzene	ug/L	20	19.7	99	70-130	
1,2-Dichloroethane	ug/L	20	19.1	95	70-130	
1,2-Dichloropropane	ug/L	20	20.2	101	70-130	
1,3-Dichlorobenzene	ug/L	20	19.7	98	70-130	
1,4-Dichlorobenzene	ug/L	20	19.4	97	70-130	
2-Butanone (MEK)	ug/L	20	20.1	100	70-130	
2-Hexanone	ug/L	20	18.6	93	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.0	95	70-130	
Acetone	ug/L	20	17.6	88	70-130	
Benzene	ug/L	20	19.1	96	70-130	
Bromodichloromethane	ug/L	20	18.7	93	70-130	
Bromoform	ug/L	20	18.3	92	70-130	
Bromomethane	ug/L	20	16.2	81	70-130	
Carbon disulfide	ug/L	20	15.6	78	70-130	
Carbon tetrachloride	ug/L	20	19.7	98	70-130	
Chlorobenzene	ug/L	20	19.4	97	70-130	
Chloroethane	ug/L	20	13.1	66	70-130	L0
Chloroform	ug/L	20	21.2	106	70-130	
Chloromethane	ug/L	20	16.9	85	70-130	
cis-1,2-Dichloroethene	ug/L	20	21.3	106	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.2	96	70-130	
Dibromochloromethane	ug/L	20	19.5	98	70-130	
Ethylbenzene	ug/L	20	19.2	96	70-130	
m&p-Xylene	ug/L	40	41.1	103	70-130	
Methylene Chloride	ug/L	20	20.1	100	70-130	
o-Xylene	ug/L	20	20.1	100	70-130	
Styrene	ug/L	20	19.0	95	70-130	
Tetrachloroethene	ug/L	20	21.2	106	70-130	
Toluene	ug/L	20	19.0	95	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.1	90	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.2	101	70-130	
Trichloroethene	ug/L	20	19.3	97	70-130	
Trichlorofluoromethane	ug/L	20	7.6	38	70-130	L0
Vinyl chloride	ug/L	20	16.4	82	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALIFIERS

Project: Essex-Hope 41568453.10000
Pace Project No.: 307381

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568453.10000
Pace Project No.: 307381

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
307381001	**PRE-CARB**	EPA 8260	MSV/2034		
307381002	**PRIMARY-EFF**	EPA 8260	MSV/2034		
307381003	**POST-CARB**	EPA 8260	MSV/2034		
307381004	**TB-01**	EPA 8260	MSV/2034		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1231214

Section A Required Client Information:

Company:	URS CORP
Address:	501 HOLIDAY DR, FOSTER PLAZA 4, STE 300 PITTSBURGH, PA 15220
Email To:	
Phone:	412-503-4700
Fax:	412-503-4701
Requested Due Date/TAT:	STANDARD

Section B Required Project Information:

Report To:	MARK DOWIAK
Copy To:	VALERIE SIBETO
Purchase Order No.:	41568453
Project Name:	ESSEX/HOPE JAMESTOWN
Project Number:	45684531.10000

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 307381
1	PRE-CARB	WT	G			3.20.09	0905		3				X					X		001
2	PRIMARY-EFF	WT	G			3.20.09	0910		3				X					X		002
3	POST-CARB	WT	G			3.20.09	0915		3				X					X		003 Composite
4	POST-CARB	WT	G			3.20.09	0945		3				X					X		
5	POST-CARB	WT	G			3.20.09	1015		3				X					X		
6	POST-CARB	WT	G			3.20.09	1045		3				X					X		
7	TB-01	WT	G			3.20.09	—		2				X					X		004
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COMPOSITE FOUR (4) POST-CARB	[signature] / URS	3.20.09	1100	FedEx #865644539226	3.20.09	1100				
SAMPLES IN LAB AND	FedEx			[signature]	3/21/09	1100	2.9	Y	N	Y
REPORT AS POST-CARB										
COMPOSITE										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 3.20.09

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 307381

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8656 4453 9226

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 3 (4) Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.9 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: JP 3/21/09

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: fb		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: (VOA) coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed JP / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (If purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Raelyn E Sproten Date: 3/23/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

April 28, 2009

Mr. Mark Dowiak
URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

RE: Project: Essex-Hope 41568453.10000
Pace Project No.: 308644

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on April 16, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope 41568453.10000
Pace Project No.: 308644

Pennsylvania Certification IDs

North Carolina Certification #: 42706
New York/NELAC Certification #: 10888
New Mexico Certification
New Jersey/NELAC Certification #: PA 051
New Hampshire/NELAC Certification #: 2976
Nevada Certification
Montana Certification #: Cert 0082
Missouri Certification #: 235
Minnesota Certification #: 042-999-425
Michigan/PADEP Certification
Massachusetts Certification #: M-PA1457
Maryland Certification #: 308
Maine Certification #: PA0091
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Kentucky Certification #: 90133
Kansas/NELAC Certification #: E-10358
Iowa Certification #: 391
Indiana/PADEP Certification
Illinois/PADEP Certification
Idaho Certification
Hawaii/PADEP Certification
Guam/PADEP Certification
Georgia Certification #: 968
Florida/NELAC Certification #: E87683
Delaware Certification
Connecticut Certification #: PH 0694
Colorado Certification
California/NELAC Certification #: 04222CA
Arkansas Certification
Arizona Certification #: AZ0734
Alabama Certification #: 41590
Wyoming Certification #: 8TMS-Q
Wisconsin/PADEP Certification
West Virginia Certification #: 143
Washington Certification #: C1941
Virginia Certification #: 00112
Virgin Island/PADEP Certification
Utah/NELAC Certification #: ANTE
Texas/NELAC Certification #: T104704188-09 TX
Tennessee Certification #: TN2867
South Dakota Certification
Puerto Rico Certification #: PA01457
Pennsylvania/NELAC Certification #: 65-282
Oregon/NELAC Certification #: PA200002

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SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568453.10000
Pace Project No.: 308644

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
308644001	**Pre-Carb**	EPA 8260	MAK	42	PASI-PA
308644002	**Primary-EFF**	EPA 8260	MAK	42	PASI-PA
308644003	**Post-Carb**	EPA 8260	MAK	42	PASI-PA
308644004	**Trip Blank**	EPA 8260	MAK	42	PASI-PA

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 308644

Sample: Pre-Carb **Lab ID: 308644001** Collected: 04/15/09 07:20 Received: 04/16/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		04/22/09 15:52	67-64-1	
Benzene	**5.0**	ug/L	1.0	1		04/22/09 15:52	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/22/09 15:52	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/22/09 15:52	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/22/09 15:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/22/09 15:52	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/22/09 15:52	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/22/09 15:52	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/22/09 15:52	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/22/09 15:52	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/22/09 15:52	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/22/09 15:52	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/22/09 15:52	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/22/09 15:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/22/09 15:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/22/09 15:52	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/22/09 15:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/22/09 15:52	107-06-2	
1,1-Dichloroethene	**11.1**	ug/L	5.0	1		04/22/09 15:52	75-35-4	
cis-1,2-Dichloroethene	**2820**	ug/L	200	40		04/22/09 16:20	156-59-2	
trans-1,2-Dichloroethene	**11.1**	ug/L	5.0	1		04/22/09 15:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/22/09 15:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/22/09 15:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/22/09 15:52	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/22/09 15:52	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/22/09 15:52	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		04/22/09 15:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/22/09 15:52	108-10-1	
Styrene	ND	ug/L	5.0	1		04/22/09 15:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/22/09 15:52	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/22/09 15:52	127-18-4	
Toluene	ND	ug/L	5.0	1		04/22/09 15:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/22/09 15:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/22/09 15:52	79-00-5	
Trichloroethene	**1400**	ug/L	200	40		04/22/09 16:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/22/09 15:52	75-69-4	
Vinyl chloride	**411**	ug/L	40.0	40		04/22/09 16:20	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/22/09 15:52	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		04/22/09 15:52	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		04/22/09 15:52	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		04/22/09 15:52	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		04/22/09 15:52	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 308644

Sample: Primary-EFF **Lab ID: 308644002** Collected: 04/15/09 07:25 Received: 04/16/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		04/22/09 16:48	67-64-1	
Benzene	ND	ug/L	1.0	1		04/22/09 16:48	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/22/09 16:48	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/22/09 16:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/22/09 16:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/22/09 16:48	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/22/09 16:48	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/22/09 16:48	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/22/09 16:48	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/22/09 16:48	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/22/09 16:48	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/22/09 16:48	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/22/09 16:48	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/22/09 16:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/22/09 16:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/22/09 16:48	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/22/09 16:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/22/09 16:48	107-06-2	
1,1-Dichloroethene	**9.0**	ug/L	5.0	1		04/22/09 16:48	75-35-4	
cis-1,2-Dichloroethene	**3410**	ug/L	200	40		04/22/09 17:16	156-59-2	
trans-1,2-Dichloroethene	**9.0**	ug/L	5.0	1		04/22/09 16:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/22/09 16:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/22/09 16:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/22/09 16:48	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/22/09 16:48	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/22/09 16:48	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		04/22/09 16:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/22/09 16:48	108-10-1	
Styrene	ND	ug/L	5.0	1		04/22/09 16:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/22/09 16:48	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/22/09 16:48	127-18-4	
Toluene	ND	ug/L	5.0	1		04/22/09 16:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/22/09 16:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/22/09 16:48	79-00-5	
Trichloroethene	**155**	ug/L	5.0	1		04/22/09 16:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/22/09 16:48	75-69-4	
Vinyl chloride	**318**	ug/L	1.0	1		04/22/09 16:48	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/22/09 16:48	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		04/22/09 16:48	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		04/22/09 16:48	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		04/22/09 16:48	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		04/22/09 16:48	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 308644

Sample: Post-Carb **Lab ID: 308644003** Collected: 04/15/09 07:30 Received: 04/16/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		04/22/09 17:44	67-64-1	
Benzene	ND	ug/L	1.0	1		04/22/09 17:44	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/22/09 17:44	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/22/09 17:44	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/22/09 17:44	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/22/09 17:44	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/22/09 17:44	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/22/09 17:44	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/22/09 17:44	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/22/09 17:44	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/22/09 17:44	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/22/09 17:44	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/22/09 17:44	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/22/09 17:44	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/22/09 17:44	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/22/09 17:44	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/22/09 17:44	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/22/09 17:44	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/22/09 17:44	75-35-4	
cis-1,2-Dichloroethene	**82.1**	ug/L	5.0	1		04/22/09 17:44	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/22/09 17:44	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/22/09 17:44	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/22/09 17:44	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/22/09 17:44	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/22/09 17:44	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/22/09 17:44	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		04/22/09 17:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/22/09 17:44	108-10-1	
Styrene	ND	ug/L	5.0	1		04/22/09 17:44	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/22/09 17:44	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/22/09 17:44	127-18-4	
Toluene	ND	ug/L	5.0	1		04/22/09 17:44	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/22/09 17:44	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/22/09 17:44	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/22/09 17:44	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/22/09 17:44	75-69-4	
Vinyl chloride	**327**	ug/L	1.0	1		04/22/09 17:44	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/22/09 17:44	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		04/22/09 17:44	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		04/22/09 17:44	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		04/22/09 17:44	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		04/22/09 17:44	2037-26-5	

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 308644

Sample: Trip Blank **Lab ID: 308644004** Collected: 04/15/09 00:00 Received: 04/16/09 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		04/22/09 13:32	67-64-1	
Benzene	ND	ug/L	1.0	1		04/22/09 13:32	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/22/09 13:32	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/22/09 13:32	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/22/09 13:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/22/09 13:32	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/22/09 13:32	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/22/09 13:32	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/22/09 13:32	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/22/09 13:32	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/22/09 13:32	67-66-3	
Chloromethane	**6.0**	ug/L	5.0	1		04/22/09 13:32	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/22/09 13:32	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/22/09 13:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/22/09 13:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/22/09 13:32	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/22/09 13:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/22/09 13:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		04/22/09 13:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		04/22/09 13:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/22/09 13:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/22/09 13:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/22/09 13:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/22/09 13:32	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/22/09 13:32	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/22/09 13:32	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		04/22/09 13:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/22/09 13:32	108-10-1	
Styrene	ND	ug/L	5.0	1		04/22/09 13:32	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/22/09 13:32	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/22/09 13:32	127-18-4	
Toluene	ND	ug/L	5.0	1		04/22/09 13:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/22/09 13:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/22/09 13:32	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		04/22/09 13:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/22/09 13:32	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		04/22/09 13:32	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/22/09 13:32	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		04/22/09 13:32	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		04/22/09 13:32	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		04/22/09 13:32	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		04/22/09 13:32	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 308644

QC Batch: MSV/2295 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 308644001, 308644002, 308644003, 308644004

METHOD BLANK: 49695 Matrix: Water
Associated Lab Samples: 308644001, 308644002, 308644003, 308644004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/22/09 13:04	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/22/09 13:04	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/22/09 13:04	
1,1-Dichloroethane	ug/L	ND	5.0	04/22/09 13:04	
1,1-Dichloroethene	ug/L	ND	5.0	04/22/09 13:04	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/22/09 13:04	
1,2-Dichloroethane	ug/L	ND	5.0	04/22/09 13:04	
1,2-Dichloropropane	ug/L	ND	5.0	04/22/09 13:04	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/22/09 13:04	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/22/09 13:04	
2-Butanone (MEK)	ug/L	ND	10.0	04/22/09 13:04	
2-Hexanone	ug/L	ND	10.0	04/22/09 13:04	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/22/09 13:04	
Acetone	ug/L	ND	10.0	04/22/09 13:04	
Benzene	ug/L	ND	1.0	04/22/09 13:04	
Bromodichloromethane	ug/L	ND	5.0	04/22/09 13:04	
Bromoform	ug/L	ND	5.0	04/22/09 13:04	
Bromomethane	ug/L	ND	5.0	04/22/09 13:04	
Carbon disulfide	ug/L	ND	5.0	04/22/09 13:04	
Carbon tetrachloride	ug/L	ND	5.0	04/22/09 13:04	
Chlorobenzene	ug/L	ND	5.0	04/22/09 13:04	
Chloroethane	ug/L	ND	5.0	04/22/09 13:04	
Chloroform	ug/L	ND	5.0	04/22/09 13:04	
Chloromethane	ug/L	ND	5.0	04/22/09 13:04	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/22/09 13:04	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/22/09 13:04	
Dibromochloromethane	ug/L	ND	5.0	04/22/09 13:04	
Ethylbenzene	ug/L	ND	5.0	04/22/09 13:04	
m&p-Xylene	ug/L	ND	5.0	04/22/09 13:04	
Methylene Chloride	ug/L	ND	5.0	04/22/09 13:04	
o-Xylene	ug/L	ND	5.0	04/22/09 13:04	
Styrene	ug/L	ND	5.0	04/22/09 13:04	
Tetrachloroethene	ug/L	ND	5.0	04/22/09 13:04	
Toluene	ug/L	ND	5.0	04/22/09 13:04	
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/22/09 13:04	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/22/09 13:04	
Trichloroethene	ug/L	ND	5.0	04/22/09 13:04	
Trichlorofluoromethane	ug/L	ND	5.0	04/22/09 13:04	
Vinyl chloride	ug/L	ND	1.0	04/22/09 13:04	
1,2-Dichloroethane-d4 (S)	%	107	70-130	04/22/09 13:04	
4-Bromofluorobenzene (S)	%	97	70-130	04/22/09 13:04	
Toluene-d8 (S)	%	98	70-130	04/22/09 13:04	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 308644

LABORATORY CONTROL SAMPLE: 49696

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.8	94	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.4	97	70-130	
1,1,2-Trichloroethane	ug/L	20	17.6	88	70-130	
1,1-Dichloroethane	ug/L	20	19.9	100	70-130	
1,1-Dichloroethene	ug/L	20	17.9	90	70-130	
1,2-Dichlorobenzene	ug/L	20	19.3	97	70-130	
1,2-Dichloroethane	ug/L	20	20.0	100	70-130	
1,2-Dichloropropane	ug/L	20	17.1	86	70-130	
1,3-Dichlorobenzene	ug/L	20	19.1	96	70-130	
1,4-Dichlorobenzene	ug/L	20	19.3	97	70-130	
2-Butanone (MEK)	ug/L	20	19.0	95	70-130	
2-Hexanone	ug/L	20	17.3	87	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	17.5	88	70-130	
Acetone	ug/L	20	20.0	100	70-130	
Benzene	ug/L	20	17.0	85	70-130	
Bromodichloromethane	ug/L	20	15.6	78	70-130	
Bromoform	ug/L	20	9.8	49	70-130	L0
Bromomethane	ug/L	20	22.7	113	70-130	
Carbon disulfide	ug/L	20	17.0	85	70-130	
Carbon tetrachloride	ug/L	20	13.4	67	70-130	L0
Chlorobenzene	ug/L	20	17.3	86	70-130	
Chloroethane	ug/L	20	13.2	66	70-130	L0
Chloroform	ug/L	20	19.7	98	70-130	
Chloromethane	ug/L	20	19.1	95	70-130	
cis-1,2-Dichloroethene	ug/L	20	20.9	104	70-130	
cis-1,3-Dichloropropene	ug/L	20	16.1	81	70-130	
Dibromochloromethane	ug/L	20	11.6	58	70-130	L0
Ethylbenzene	ug/L	20	17.3	86	70-130	
m&p-Xylene	ug/L	40	34.9	87	70-130	
Methylene Chloride	ug/L	20	19.4	97	70-130	
o-Xylene	ug/L	20	16.9	84	70-130	
Styrene	ug/L	20	16.9	85	70-130	
Tetrachloroethene	ug/L	20	19.5	97	70-130	
Toluene	ug/L	20	17.3	86	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.9	90	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.4	87	70-130	
Trichloroethene	ug/L	20	16.3	82	70-130	
Trichlorofluoromethane	ug/L	20	19.2	96	70-130	
Vinyl chloride	ug/L	20	20.5	102	70-130	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			97	70-130	
Toluene-d8 (S)	%			88	70-130	

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 308644

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 49697 49698

Parameter	Units	308874001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	6.1	20	20	24.7	26.3	93	101	70-130	6	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.6	18.1	88	91	70-130	3	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.1	19.9	95	99	70-130	4	
1,1-Dichloroethane	ug/L	1.1	20	20	20.5	21.6	97	103	70-130	5	
1,1-Dichloroethene	ug/L	ND	20	20	18.1	19.8	91	99	70-130	9	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.0	19.1	90	96	70-130	6	
1,2-Dichloroethane	ug/L	ND	20	20	20.2	20.5	101	102	70-130	1	
1,2-Dichloropropane	ug/L	ND	20	20	18.6	19.0	93	95	70-130	2	
1,3-Dichlorobenzene	ug/L	ND	20	20	16.9	19.2	85	96	70-130	13	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.6	18.2	88	91	70-130	3	
2-Butanone (MEK)	ug/L	ND	20	20	18.5	17.3	93	87	70-130	7	
2-Hexanone	ug/L	ND	20	20	18.1	18.1	91	90	70-130	.3	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	18.7	18.2	94	91	70-130	3	
Acetone	ug/L	ND	20	20	21.7	18.9	109	95	70-130	14	
Benzene	ug/L	ND	20	20	18.1	19.2	90	96	70-130	6	
Bromodichloromethane	ug/L	ND	20	20	15.0	16.5	75	82	70-130	9	
Bromoform	ug/L	ND	20	20	9.3	9.5	46	48	70-130	3	M0
Bromomethane	ug/L	ND	20	20	11.5	16.2	58	81	70-130	34	M0,R1
Carbon disulfide	ug/L	ND	20	20	16.5	15.5	83	77	70-130	6	
Carbon tetrachloride	ug/L	ND	20	20	13.5	15.0	67	75	70-130	11	M0
Chlorobenzene	ug/L	ND	20	20	18.2	19.0	91	95	70-130	4	
Chloroethane	ug/L	ND	20	20	14.4	13.9	72	69	70-130	4	M0
Chloroform	ug/L	ND	20	20	19.8	20.3	99	102	70-130	3	
Chloromethane	ug/L	ND	20	20	19.5	19.5	97	98	70-130	.4	
cis-1,2-Dichloroethene	ug/L	7.6	20	20	28.9	29.6	107	110	70-130	2	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.6	17.3	83	87	70-130	4	
Dibromochloromethane	ug/L	ND	20	20	11.1	11.7	56	58	70-130	5	M0
Ethylbenzene	ug/L	ND	20	20	18.3	19.3	92	96	70-130	5	
m&p-Xylene	ug/L	ND	40	40	36.4	39.1	91	98	70-130	7	
Methylene Chloride	ug/L	ND	20	20	18.4	19.4	92	97	70-130	5	
o-Xylene	ug/L	ND	20	20	17.9	18.5	90	93	70-130	3	
Styrene	ug/L	ND	20	20	16.9	18.1	84	90	70-130	7	
Tetrachloroethene	ug/L	2.4	20	20	21.5	22.7	96	101	70-130	5	
Toluene	ug/L	ND	20	20	18.3	19.5	91	98	70-130	7	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.1	19.8	91	99	70-130	9	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.8	18.0	89	90	70-130	1	
Trichloroethene	ug/L	133	20	20	150	148	81	70	70-130	1	
Trichlorofluoromethane	ug/L	1.4	20	20	21.7	21.8	102	102	70-130	.5	
Vinyl chloride	ug/L	ND	20	20	22.4	21.7	112	108	70-130	3	
1,2-Dichloroethane-d4 (S)	%						100	106	70-130		
4-Bromofluorobenzene (S)	%						95	100	70-130		
Toluene-d8 (S)	%						95	97	70-130		

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Greensburg, PA 15601
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QUALIFIERS

Project: Essex-Hope 41568453.10000
Pace Project No.: 308644

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M0	Matrix spike recovery was outside laboratory control limits.
R1	RPD value was outside control limits.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568453.10000
Pace Project No.: 308644

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
308644001	**Pre-Carb**	EPA 8260	MSV/2295		
308644002	**Primary-EFF**	EPA 8260	MSV/2295		
308644003	**Post-Carb**	EPA 8260	MSV/2295		
308644004	**Trip Blank**	EPA 8260	MSV/2295		

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: | of |

1295166

Section A Required Client Information:

Company: URS CORP
Address: FOSTER PLAZA 4, STE. 300 501 HOLIDAY DR. PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4700 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41568453
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41568453.10000

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Requested Analysis Filtered (Y/N)

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	WT	G			4.15.09	0720		3				X						X		001
2	PRIMARY-EFF						0725		3				X						X		002
3	POST-CARB						0730		3				X						X		003
4	POST-CARB						0800		3				X						X		
5	POST-CARB						0830		3				X						X		
6	POST-CARB						0900		3				X						X		
7	TB-01					4.15.09	—		2				X						X		004
8																					
9																					
10																					
11																					
12																					

3084044

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COMPOSITE FOUR (4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE.	Valerie Sibeto URS FedEx 4.15.09			Justin Miller 4/15.09	4/16/09	0930	4.1	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: Valerie Sibeto DATE Signed (MM/DD/YY): 4.15.09

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 3086644

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 8656 4453 9248

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 3 (4) Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 4.1 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: JP 4/16/09

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: Ag		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: (VOA), coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed JP / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Raelyn E Sproster Date: 4/17/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

June 08, 2009

Mr. Mark Dowiak
URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

RE: Project: Essex-Hope 41568453.10000
Pace Project No.: 3010451

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on May 27, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3010451

Pennsylvania Certification IDs

Wyoming Certification #: 8TMS-Q
Wisconsin/PADEP Certification
West Virginia Certification #: 143
Washington Certification #: C1941
Virginia Certification #: 00112
Virgin Island/PADEP Certification
Utah/NELAC Certification #: ANTE
Texas/NELAC Certification #: T104704188-09 TX
Tennessee Certification #: TN2867
South Dakota Certification
Puerto Rico Certification #: PA01457
Pennsylvania/NELAC Certification #: 65-282
Oregon/NELAC Certification #: PA200002
North Carolina Certification #: 42706
New York/NELAC Certification #: 10888
New Mexico Certification
New Jersey/NELAC Certification #: PA 051
New Hampshire/NELAC Certification #: 2976
Nevada Certification
Montana Certification #: Cert 0082
Missouri Certification #: 235
Minnesota Certification #: 042-999-425
Michigan/PADEP Certification
Massachusetts Certification #: M-PA1457
Maryland Certification #: 308
Maine Certification #: PA0091
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Kentucky Certification #: 90133
Kansas/NELAC Certification #: E-10358
Iowa Certification #: 391
Indiana/PADEP Certification
Illinois/PADEP Certification
Idaho Certification
Hawaii/PADEP Certification
Guam/PADEP Certification
Georgia Certification #: 968
Florida/NELAC Certification #: E87683
Delaware Certification
Connecticut Certification #: PH 0694
Colorado Certification
California/NELAC Certification #: 04222CA
Arkansas Certification
Arizona Certification #: AZ0734
Alabama Certification #: 41590

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SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568453.10000
Pace Project No.: 3010451

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3010451001	**Pre-Carb**	EPA 8260	JHC	42	PASI-PA
3010451002	**Primary-EFF**	EPA 8260	JHC	42	PASI-PA
3010451003	**Post Carb**	EPA 8260	JHC	42	PASI-PA
3010451004	**TB-01**	EPA 8260	JHC	42	PASI-PA

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3010451

Sample: Pre-Carb **Lab ID: 3010451001** Collected: 05/26/09 11:50 Received: 05/27/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		06/02/09 19:11	67-64-1	
Benzene	**7.7**	ug/L	1.0	1		06/02/09 19:11	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/02/09 19:11	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/02/09 19:11	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/02/09 19:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/02/09 19:11	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		06/02/09 19:11	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/02/09 19:11	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/02/09 19:11	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/02/09 19:11	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/02/09 19:11	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/02/09 19:11	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		06/02/09 19:11	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/02/09 19:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/02/09 19:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/02/09 19:11	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/02/09 19:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/02/09 19:11	107-06-2	
1,1-Dichloroethene	**16.9**	ug/L	5.0	1		06/02/09 19:11	75-35-4	
cis-1,2-Dichloroethene	**4820**	ug/L	500	100		06/05/09 02:38	156-59-2	
trans-1,2-Dichloroethene	**16.9**	ug/L	5.0	1		06/02/09 19:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/02/09 19:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/02/09 19:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/02/09 19:11	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/02/09 19:11	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/02/09 19:11	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		06/02/09 19:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/02/09 19:11	108-10-1	
Styrene	ND	ug/L	5.0	1		06/02/09 19:11	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/02/09 19:11	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/02/09 19:11	127-18-4	
Toluene	ND	ug/L	5.0	1		06/02/09 19:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/02/09 19:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/02/09 19:11	79-00-5	
Trichloroethene	**2480**	ug/L	500	100		06/05/09 02:38	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/02/09 19:11	75-69-4	
Vinyl chloride	**585**	ug/L	100	100		06/05/09 02:38	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		06/02/09 19:11	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		06/02/09 19:11	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		06/02/09 19:11	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		06/02/09 19:11	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		06/02/09 19:11	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3010451

Sample: Primary-EFF **Lab ID: 3010451002** Collected: 05/26/09 11:55 Received: 05/27/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		06/05/09 00:48	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/09 00:48	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/05/09 00:48	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/05/09 00:48	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/05/09 00:48	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/05/09 00:48	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		06/05/09 00:48	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/05/09 00:48	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/05/09 00:48	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/05/09 00:48	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/05/09 00:48	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/05/09 00:48	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		06/05/09 00:48	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/05/09 00:48	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/05/09 00:48	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/05/09 00:48	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/05/09 00:48	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/05/09 00:48	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/05/09 00:48	75-35-4	
cis-1,2-Dichloroethene	**151**	ug/L	5.0	1		06/05/09 00:48	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/05/09 00:48	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/05/09 00:48	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/05/09 00:48	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/05/09 00:48	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/05/09 00:48	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/05/09 00:48	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		06/05/09 00:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/05/09 00:48	108-10-1	
Styrene	ND	ug/L	5.0	1		06/05/09 00:48	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/05/09 00:48	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/05/09 00:48	127-18-4	
Toluene	ND	ug/L	5.0	1		06/05/09 00:48	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/05/09 00:48	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/05/09 00:48	79-00-5	
Trichloroethene	**5.3**	ug/L	5.0	1		06/05/09 00:48	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/05/09 00:48	75-69-4	
Vinyl chloride	**4.8**	ug/L	1.0	1		06/05/09 00:48	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		06/05/09 00:48	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		06/05/09 00:48	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		06/05/09 00:48	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		06/05/09 00:48	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		06/05/09 00:48	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3010451

Sample: Post Carb **Lab ID: 3010451003** Collected: 05/26/09 12:00 Received: 05/27/09 10:30 Matrix: Water

Comments: • This sample was composited prior to analysis.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		06/05/09 01:16	67-64-1	
Benzene	ND	ug/L	1.0	1		06/05/09 01:16	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/05/09 01:16	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/05/09 01:16	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/05/09 01:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/05/09 01:16	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		06/05/09 01:16	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/05/09 01:16	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/05/09 01:16	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/05/09 01:16	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/05/09 01:16	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/05/09 01:16	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		06/05/09 01:16	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/05/09 01:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/05/09 01:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/05/09 01:16	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/05/09 01:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/05/09 01:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/05/09 01:16	75-35-4	
cis-1,2-Dichloroethene	**42.9**	ug/L	5.0	1		06/05/09 01:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/05/09 01:16	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/05/09 01:16	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/05/09 01:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/05/09 01:16	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/05/09 01:16	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/05/09 01:16	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		06/05/09 01:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/05/09 01:16	108-10-1	
Styrene	ND	ug/L	5.0	1		06/05/09 01:16	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/05/09 01:16	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/05/09 01:16	127-18-4	
Toluene	ND	ug/L	5.0	1		06/05/09 01:16	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/05/09 01:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/05/09 01:16	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/05/09 01:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/05/09 01:16	75-69-4	
Vinyl chloride	**11.8**	ug/L	1.0	1		06/05/09 01:16	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		06/05/09 01:16	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		06/05/09 01:16	95-47-6	
4-Bromofluorobenzene (S)	94	%	70-130	1		06/05/09 01:16	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		06/05/09 01:16	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		06/05/09 01:16	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3010451

Sample: TB-01 **Lab ID: 3010451004** Collected: 05/26/09 00:00 Received: 05/27/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		06/02/09 17:21	67-64-1	
Benzene	ND	ug/L	1.0	1		06/02/09 17:21	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/02/09 17:21	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/02/09 17:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/02/09 17:21	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/02/09 17:21	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		06/02/09 17:21	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/02/09 17:21	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/02/09 17:21	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/02/09 17:21	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/02/09 17:21	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/02/09 17:21	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		06/02/09 17:21	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/02/09 17:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/02/09 17:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/02/09 17:21	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/02/09 17:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/02/09 17:21	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/02/09 17:21	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		06/02/09 17:21	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/02/09 17:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/02/09 17:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/02/09 17:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/02/09 17:21	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/02/09 17:21	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/02/09 17:21	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		06/02/09 17:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/02/09 17:21	108-10-1	
Styrene	ND	ug/L	5.0	1		06/02/09 17:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/02/09 17:21	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/02/09 17:21	127-18-4	
Toluene	ND	ug/L	5.0	1		06/02/09 17:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/02/09 17:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/02/09 17:21	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/02/09 17:21	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/02/09 17:21	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		06/02/09 17:21	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		06/02/09 17:21	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		06/02/09 17:21	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130	1		06/02/09 17:21	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		06/02/09 17:21	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		06/02/09 17:21	2037-26-5	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3010451

QC Batch: MSV/2623 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3010451001, 3010451002, 3010451003, 3010451004

METHOD BLANK: 60501 Matrix: Water
Associated Lab Samples: 3010451001, 3010451002, 3010451003, 3010451004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/02/09 16:54	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/02/09 16:54	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/02/09 16:54	
1,1-Dichloroethane	ug/L	ND	5.0	06/02/09 16:54	
1,1-Dichloroethene	ug/L	ND	5.0	06/02/09 16:54	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/02/09 16:54	
1,2-Dichloroethane	ug/L	ND	5.0	06/02/09 16:54	
1,2-Dichloropropane	ug/L	ND	5.0	06/02/09 16:54	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/02/09 16:54	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/02/09 16:54	
2-Butanone (MEK)	ug/L	ND	10.0	06/02/09 16:54	
2-Hexanone	ug/L	ND	10.0	06/02/09 16:54	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/02/09 16:54	
Acetone	ug/L	ND	10.0	06/02/09 16:54	
Benzene	ug/L	ND	1.0	06/02/09 16:54	
Bromodichloromethane	ug/L	ND	5.0	06/02/09 16:54	
Bromoform	ug/L	ND	5.0	06/02/09 16:54	
Bromomethane	ug/L	ND	5.0	06/02/09 16:54	
Carbon disulfide	ug/L	ND	5.0	06/02/09 16:54	
Carbon tetrachloride	ug/L	ND	5.0	06/02/09 16:54	
Chlorobenzene	ug/L	ND	5.0	06/02/09 16:54	
Chloroethane	ug/L	ND	5.0	06/02/09 16:54	
Chloroform	ug/L	ND	5.0	06/02/09 16:54	
Chloromethane	ug/L	ND	5.0	06/02/09 16:54	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/02/09 16:54	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/02/09 16:54	
Dibromochloromethane	ug/L	ND	5.0	06/02/09 16:54	
Ethylbenzene	ug/L	ND	5.0	06/02/09 16:54	
m&p-Xylene	ug/L	ND	5.0	06/02/09 16:54	
Methylene Chloride	ug/L	ND	5.0	06/02/09 16:54	
o-Xylene	ug/L	ND	5.0	06/02/09 16:54	
Styrene	ug/L	ND	5.0	06/02/09 16:54	
Tetrachloroethene	ug/L	ND	5.0	06/02/09 16:54	
Toluene	ug/L	ND	5.0	06/02/09 16:54	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/02/09 16:54	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/02/09 16:54	
Trichloroethene	ug/L	ND	5.0	06/02/09 16:54	
Trichlorofluoromethane	ug/L	ND	5.0	06/02/09 16:54	
Vinyl chloride	ug/L	ND	1.0	06/02/09 16:54	
1,2-Dichloroethane-d4 (S)	%	101	70-130	06/02/09 16:54	
4-Bromofluorobenzene (S)	%	93	70-130	06/02/09 16:54	
Toluene-d8 (S)	%	96	70-130	06/02/09 16:54	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3010451

LABORATORY CONTROL SAMPLE: 60502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.0	110	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.0	100	70-130	
1,1,2-Trichloroethane	ug/L	20	24.6	123	70-130	
1,1-Dichloroethane	ug/L	20	22.1	111	70-130	
1,1-Dichloroethene	ug/L	20	19.6	98	70-130	
1,2-Dichlorobenzene	ug/L	20	22.2	111	70-130	
1,2-Dichloroethane	ug/L	20	20.8	104	70-130	
1,2-Dichloropropane	ug/L	20	22.1	111	70-130	
1,3-Dichlorobenzene	ug/L	20	21.6	108	70-130	
1,4-Dichlorobenzene	ug/L	20	21.4	107	70-130	
2-Butanone (MEK)	ug/L	20	20.1	101	70-130	
2-Hexanone	ug/L	20	22.8	114	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	21.2	106	70-130	
Acetone	ug/L	20	23.5	118	70-130	
Benzene	ug/L	20	21.0	105	70-130	
Bromodichloromethane	ug/L	20	22.9	115	70-130	
Bromoform	ug/L	20	24.6	123	70-130	
Bromomethane	ug/L	20	19.9	99	70-130	
Carbon disulfide	ug/L	20	20.7	103	70-130	
Carbon tetrachloride	ug/L	20	22.9	115	70-130	
Chlorobenzene	ug/L	20	22.6	113	70-130	
Chloroethane	ug/L	20	12.3	62	70-130	L0
Chloroform	ug/L	20	22.8	114	70-130	
Chloromethane	ug/L	20	15.0	75	70-130	
cis-1,2-Dichloroethene	ug/L	20	21.8	109	70-130	
cis-1,3-Dichloropropene	ug/L	20	21.3	107	70-130	
Dibromochloromethane	ug/L	20	22.9	114	70-130	
Ethylbenzene	ug/L	20	21.9	109	70-130	
m&p-Xylene	ug/L	40	43.6	109	70-130	
Methylene Chloride	ug/L	20	21.6	108	70-130	
o-Xylene	ug/L	20	21.9	110	70-130	
Styrene	ug/L	20	23.1	116	70-130	
Tetrachloroethene	ug/L	20	22.7	114	70-130	
Toluene	ug/L	20	20.9	104	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.6	98	70-130	
trans-1,3-Dichloropropene	ug/L	20	23.0	115	70-130	
Trichloroethene	ug/L	20	22.1	111	70-130	
Trichlorofluoromethane	ug/L	20	19.1	95	70-130	
Vinyl chloride	ug/L	20	18.2	91	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			92	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALIFIERS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3010451

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568453.10000
Pace Project No.: 3010451

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3010451001	**Pre-Carb**	EPA 8260	MSV/2623		
3010451002	**Primary-EFF**	EPA 8260	MSV/2623		
3010451003	**Post Carb**	EPA 8260	MSV/2623		
3010451004	**TB-01**	EPA 8260	MSV/2623		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: | of |

1294725

Section A Required Client Information:

Company: URS CORP
Address: 501 HOLIDAY DR. FOSTER PLAZA 4, STE 300, PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4700 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41568453
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41568453.10000

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	WTG	G			5.26.09	1150		3				X					X		001
2	PRIMARY-EFF						1155		3				X					X		002
3	POST-CARB						1200		3				X					X		003
4	POST-CARB						1230		3				X					X		
5	POST-CARB						1300		3				X					X		
6	POST-CARB						1330		3				X					X		
7	TB-01					5.26.09	—		2				X					X		004
8																				
9																				
10																				
11																				
12																				

3010451

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COMPOSITE FOUR (4)	[signature] URS	5.26.09	1355	[signature] Fed Ex	5.26.09	1355				
POST-CARB SAMPLES IN LAB	Fed Ex			[signature] Pace	5.27.09	1030	5.5	Y	N	Y
AND REPORT AS POST-CARB										
COMPOSITE.										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 5.26.09

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 30104511

Courier: (Fed Ex) ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes (no) Seals intact: ☐ yes ☐ no

Packing Material: (Bubble Wrap) ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used (3) 4 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 5.5 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: CAW 5.27

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	(Yes) ☐No ☐N/A	1.
Chain of Custody Filled Out:	(Yes) ☐No ☐N/A	2.
Chain of Custody Relinquished:	(Yes) ☐No ☐N/A	3.
Sampler Name & Signature on COC:	(Yes) ☐No ☐N/A	4.
Samples Arrived within Hold Time:	(Yes) ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes (No) ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes (No) ☐N/A	7.
Sufficient Volume:	(Yes) ☐No ☐N/A	8.
Correct Containers Used:	(Yes) ☐No ☐N/A	9.
-Pace Containers Used:	(Yes) ☐No ☐N/A	
Containers Intact:	(Yes) ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes (No) ☐N/A	11.
Sample Labels match COC:	(Yes) ☐No ☐N/A	12.
-includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	(Yes) ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	(Yes) ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	(Yes) ☐No	Initial when completed: CAW — Lot # of added preservative:
Samples checked for dechlorination:	☐Yes ☐No (N/A)	14.
Headspace in VOA Vials (>6mm):	☐Yes (No) ☐N/A	15.
Trip Blank Present:	(Yes) ☐No ☐N/A	16.
Trip Blank Custody Seals Present	(Yes) ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Carolyn Sylvester **Date:** 5/27/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

July 13, 2009

Mr. Mark Dowiak
URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

RE: Project: Essex-Hope 41568453.10000
Pace Project No.: 3012195

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on July 01, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3012195

Pennsylvania Certification IDs

Wyoming Certification #: 8TMS-Q
Wisconsin/PADEP Certification
West Virginia Certification #: 143
Washington Certification #: C1941
Virginia Certification #: 00112
Virgin Island/PADEP Certification
Utah/NELAC Certification #: ANTE
Texas/NELAC Certification #: T104704188-09 TX
Tennessee Certification #: TN2867
South Dakota Certification
Puerto Rico Certification #: PA01457
Pennsylvania/NELAC Certification #: 65-282
Oregon/NELAC Certification #: PA200002
North Carolina Certification #: 42706
New York/NELAC Certification #: 10888
New Mexico Certification
New Jersey/NELAC Certification #: PA 051
New Hampshire/NELAC Certification #: 2976
Nevada Certification
Montana Certification #: Cert 0082
Missouri Certification #: 235
Minnesota Certification #: 042-999-425
Michigan/PADEP Certification
Massachusetts Certification #: M-PA1457
Maryland Certification #: 308
Maine Certification #: PA0091
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Kentucky Certification #: 90133
Kansas/NELAC Certification #: E-10358
Iowa Certification #: 391
Indiana/PADEP Certification
Illinois/PADEP Certification
Idaho Certification
Hawaii/PADEP Certification
Guam/PADEP Certification
Georgia Certification #: 968
Florida/NELAC Certification #: E87683
Delaware Certification
Connecticut Certification #: PH 0694
Colorado Certification
California/NELAC Certification #: 04222CA
Arkansas Certification
Arizona Certification #: AZ0734
Alabama Certification #: 41590

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SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568453.10000
Pace Project No.: 3012195

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3012195001	**Pre-Carb**	EPA 8260	JAS	42	PASI-PA
3012195002	**PRIMARY-EFF**	EPA 8260	JAS	42	PASI-PA
3012195003	**POST CARB**	EPA 8260	JAS	42	PASI-PA
3012195004	**TB-01**	EPA 8260	JAS	42	PASI-PA

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(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3012195

Sample: Pre-Carb **Lab ID: 3012195001** Collected: 06/30/09 08:45 Received: 07/01/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		07/06/09 17:11	67-64-1	
Benzene	**6.3**	ug/L	1.0	1		07/06/09 17:11	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/06/09 17:11	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/06/09 17:11	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/06/09 17:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/06/09 17:11	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/06/09 17:11	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/06/09 17:11	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/06/09 17:11	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/06/09 17:11	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/06/09 17:11	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/06/09 17:11	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/06/09 17:11	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/06/09 17:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/06/09 17:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/06/09 17:11	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/06/09 17:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/06/09 17:11	107-06-2	
1,1-Dichloroethene	**13.6**	ug/L	5.0	1		07/06/09 17:11	75-35-4	
cis-1,2-Dichloroethene	**3460**	ug/L	200	40		07/06/09 17:37	156-59-2	
trans-1,2-Dichloroethene	**19.4**	ug/L	5.0	1		07/06/09 17:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/06/09 17:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/09 17:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/09 17:11	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/06/09 17:11	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/06/09 17:11	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		07/06/09 17:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/06/09 17:11	108-10-1	
Styrene	ND	ug/L	5.0	1		07/06/09 17:11	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/06/09 17:11	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/06/09 17:11	127-18-4	
Toluene	ND	ug/L	5.0	1		07/06/09 17:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/06/09 17:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/06/09 17:11	79-00-5	
Trichloroethene	**1780**	ug/L	200	40		07/06/09 17:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/06/09 17:11	75-69-4	
Vinyl chloride	**443**	ug/L	40.0	40		07/06/09 17:37	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/06/09 17:11	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		07/06/09 17:11	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130	1		07/06/09 17:11	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		07/06/09 17:11	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		07/06/09 17:11	2037-26-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3012195

Sample: PRIMARY-EFF **Lab ID: 3012195002** Collected: 06/30/09 08:50 Received: 07/01/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		07/06/09 18:03	67-64-1	
Benzene	ND	ug/L	1.0	1		07/06/09 18:03	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/06/09 18:03	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/06/09 18:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/06/09 18:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/06/09 18:03	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/06/09 18:03	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/06/09 18:03	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/06/09 18:03	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/06/09 18:03	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/06/09 18:03	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/06/09 18:03	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/06/09 18:03	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/06/09 18:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/06/09 18:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/06/09 18:03	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/06/09 18:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/06/09 18:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/06/09 18:03	75-35-4	
cis-1,2-Dichloroethene	**60.9**	ug/L	5.0	1		07/06/09 18:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/06/09 18:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/06/09 18:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/09 18:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/09 18:03	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/06/09 18:03	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/06/09 18:03	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		07/06/09 18:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/06/09 18:03	108-10-1	
Styrene	ND	ug/L	5.0	1		07/06/09 18:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/06/09 18:03	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/06/09 18:03	127-18-4	
Toluene	ND	ug/L	5.0	1		07/06/09 18:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/06/09 18:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/06/09 18:03	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/06/09 18:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/06/09 18:03	75-69-4	
Vinyl chloride	**287**	ug/L	1.0	1		07/06/09 18:03	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/06/09 18:03	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		07/06/09 18:03	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		07/06/09 18:03	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		07/06/09 18:03	17060-07-0	
Toluene-d8 (S)	102	%	70-130	1		07/06/09 18:03	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3012195

Sample: POST CARB **Lab ID: 3012195003** Collected: 06/30/09 08:50 Received: 07/01/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		07/06/09 18:55	67-64-1	
Benzene	ND	ug/L	1.0	1		07/06/09 18:55	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/06/09 18:55	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/06/09 18:55	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/06/09 18:55	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/06/09 18:55	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/06/09 18:55	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/06/09 18:55	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/06/09 18:55	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/06/09 18:55	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/06/09 18:55	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/06/09 18:55	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/06/09 18:55	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/06/09 18:55	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/06/09 18:55	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/06/09 18:55	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/06/09 18:55	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/06/09 18:55	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/06/09 18:55	75-35-4	
cis-1,2-Dichloroethene	**22.0**	ug/L	5.0	1		07/06/09 18:55	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/06/09 18:55	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/06/09 18:55	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/09 18:55	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/09 18:55	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/06/09 18:55	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/06/09 18:55	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		07/06/09 18:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/06/09 18:55	108-10-1	
Styrene	ND	ug/L	5.0	1		07/06/09 18:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/06/09 18:55	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/06/09 18:55	127-18-4	
Toluene	ND	ug/L	5.0	1		07/06/09 18:55	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/06/09 18:55	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/06/09 18:55	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/06/09 18:55	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/06/09 18:55	75-69-4	
Vinyl chloride	**4.3**	ug/L	1.0	1		07/06/09 18:55	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/06/09 18:55	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		07/06/09 18:55	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130	1		07/06/09 18:55	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		07/06/09 18:55	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		07/06/09 18:55	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3012195

Sample: TB-01 **Lab ID: 3012195004** Collected: 06/30/09 00:00 Received: 07/01/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		07/06/09 16:45	67-64-1	
Benzene	ND	ug/L	1.0	1		07/06/09 16:45	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/06/09 16:45	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/06/09 16:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/06/09 16:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/06/09 16:45	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/06/09 16:45	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/06/09 16:45	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/06/09 16:45	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/06/09 16:45	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/06/09 16:45	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/06/09 16:45	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/06/09 16:45	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/06/09 16:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/06/09 16:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/06/09 16:45	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/06/09 16:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/06/09 16:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/06/09 16:45	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/06/09 16:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/06/09 16:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/06/09 16:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/09 16:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/09 16:45	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/06/09 16:45	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/06/09 16:45	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		07/06/09 16:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/06/09 16:45	108-10-1	
Styrene	ND	ug/L	5.0	1		07/06/09 16:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/06/09 16:45	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/06/09 16:45	127-18-4	
Toluene	ND	ug/L	5.0	1		07/06/09 16:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/06/09 16:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/06/09 16:45	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/06/09 16:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/06/09 16:45	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		07/06/09 16:45	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/06/09 16:45	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		07/06/09 16:45	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		07/06/09 16:45	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		07/06/09 16:45	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		07/06/09 16:45	2037-26-5	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3012195

QC Batch: MSV/3000 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3012195001, 3012195002, 3012195003, 3012195004

METHOD BLANK: 72548 Matrix: Water
Associated Lab Samples: 3012195001, 3012195002, 3012195003, 3012195004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	07/06/09 16:19	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	07/06/09 16:19	
1,1,2-Trichloroethane	ug/L	ND	5.0	07/06/09 16:19	
1,1-Dichloroethane	ug/L	ND	5.0	07/06/09 16:19	
1,1-Dichloroethene	ug/L	ND	5.0	07/06/09 16:19	
1,2-Dichlorobenzene	ug/L	ND	5.0	07/06/09 16:19	
1,2-Dichloroethane	ug/L	ND	5.0	07/06/09 16:19	
1,2-Dichloropropane	ug/L	ND	5.0	07/06/09 16:19	
1,3-Dichlorobenzene	ug/L	ND	5.0	07/06/09 16:19	
1,4-Dichlorobenzene	ug/L	ND	5.0	07/06/09 16:19	
2-Butanone (MEK)	ug/L	ND	10.0	07/06/09 16:19	
2-Hexanone	ug/L	ND	10.0	07/06/09 16:19	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/06/09 16:19	
Acetone	ug/L	ND	10.0	07/06/09 16:19	
Benzene	ug/L	ND	1.0	07/06/09 16:19	
Bromodichloromethane	ug/L	ND	5.0	07/06/09 16:19	
Bromoform	ug/L	ND	5.0	07/06/09 16:19	
Bromomethane	ug/L	ND	5.0	07/06/09 16:19	
Carbon disulfide	ug/L	ND	5.0	07/06/09 16:19	
Carbon tetrachloride	ug/L	ND	5.0	07/06/09 16:19	
Chlorobenzene	ug/L	ND	5.0	07/06/09 16:19	
Chloroethane	ug/L	ND	5.0	07/06/09 16:19	
Chloroform	ug/L	ND	5.0	07/06/09 16:19	
Chloromethane	ug/L	ND	5.0	07/06/09 16:19	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/06/09 16:19	
cis-1,3-Dichloropropene	ug/L	ND	5.0	07/06/09 16:19	
Dibromochloromethane	ug/L	ND	5.0	07/06/09 16:19	
Ethylbenzene	ug/L	ND	5.0	07/06/09 16:19	
m&p-Xylene	ug/L	ND	5.0	07/06/09 16:19	
Methylene Chloride	ug/L	ND	5.0	07/06/09 16:19	
o-Xylene	ug/L	ND	5.0	07/06/09 16:19	
Styrene	ug/L	ND	5.0	07/06/09 16:19	
Tetrachloroethene	ug/L	ND	5.0	07/06/09 16:19	
Toluene	ug/L	ND	5.0	07/06/09 16:19	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/06/09 16:19	
trans-1,3-Dichloropropene	ug/L	ND	5.0	07/06/09 16:19	
Trichloroethene	ug/L	ND	5.0	07/06/09 16:19	
Trichlorofluoromethane	ug/L	ND	5.0	07/06/09 16:19	
Vinyl chloride	ug/L	ND	1.0	07/06/09 16:19	
1,2-Dichloroethane-d4 (S)	%	99	70-130	07/06/09 16:19	
4-Bromofluorobenzene (S)	%	99	70-130	07/06/09 16:19	
Toluene-d8 (S)	%	101	70-130	07/06/09 16:19	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3012195

LABORATORY CONTROL SAMPLE: 72549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.4	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.9	99	70-130	
1,1,2-Trichloroethane	ug/L	20	20.9	105	70-130	
1,1-Dichloroethane	ug/L	20	20.0	100	70-130	
1,1-Dichloroethene	ug/L	20	18.2	91	70-130	
1,2-Dichlorobenzene	ug/L	20	20.6	103	70-130	
1,2-Dichloroethane	ug/L	20	19.2	96	70-130	
1,2-Dichloropropane	ug/L	20	19.7	99	70-130	
1,3-Dichlorobenzene	ug/L	20	20.5	103	70-130	
1,4-Dichlorobenzene	ug/L	20	20.5	102	70-130	
2-Butanone (MEK)	ug/L	20	20.5	103	70-130	
2-Hexanone	ug/L	20	21.6	108	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.3	102	70-130	
Acetone	ug/L	20	17.7	89	70-130	
Benzene	ug/L	20	19.5	98	70-130	
Bromodichloromethane	ug/L	20	21.6	108	70-130	
Bromoform	ug/L	20	22.1	111	70-130	
Bromomethane	ug/L	20	27.5	138	70-130	L3
Carbon disulfide	ug/L	20	18.9	94	70-130	
Carbon tetrachloride	ug/L	20	21.0	105	70-130	
Chlorobenzene	ug/L	20	20.6	103	70-130	
Chloroethane	ug/L	20	13.7	69	70-130	L2
Chloroform	ug/L	20	20.7	104	70-130	
Chloromethane	ug/L	20	15.5	77	70-130	
cis-1,2-Dichloroethene	ug/L	20	21.4	107	70-130	
cis-1,3-Dichloropropene	ug/L	20	20.4	102	70-130	
Dibromochloromethane	ug/L	20	19.8	99	70-130	
Ethylbenzene	ug/L	20	20.2	101	70-130	
m&p-Xylene	ug/L	40	41.9	105	70-130	
Methylene Chloride	ug/L	20	19.8	99	70-130	
o-Xylene	ug/L	20	20.0	100	70-130	
Styrene	ug/L	20	20.6	103	70-130	
Tetrachloroethene	ug/L	20	20.9	105	70-130	
Toluene	ug/L	20	20.1	100	70-130	
trans-1,2-Dichloroethene	ug/L	20	14.5	72	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.3	102	70-130	
Trichloroethene	ug/L	20	19.6	98	70-130	
Trichlorofluoromethane	ug/L	20	14.8	74	70-130	
Vinyl chloride	ug/L	20	14.4	72	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALIFIERS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3012195

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568453.10000
Pace Project No.: 3012195

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3012195001	**Pre-Carb**	EPA 8260	MSV/3000		
3012195002	**PRIMARY-EFF**	EPA 8260	MSV/3000		
3012195003	**POST CARB**	EPA 8260	MSV/3000		
3012195004	**TB-01**	EPA 8260	MSV/3000		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1297377

Section A Required Client Information:

Company: URS CORP
Address: FOSTER PLAZA 4, STE. 300 501 HOLIDAY DR PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4700 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41568453
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41568453, 10000

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Requested Analysis Filtered (Y/N)

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	NT	G			6/30/09	0845		3				X					X		001
2	PRIMARY-EFF						0850		3				X					X		002
3	POST-CARB						0900		3				X					X		003
4	POST-CARB						0930		3				X					X		
5	POST-CARB						1000		3				X					X		
6	POST-CARB						1030		3				X					X		
7	TB-01					6/30/09	—		2				X					X		004
8																				
9																				
10																				
11																				
12																				

3012195

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COMPOSITE FOUR (4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE.	Valerie Sibeto/URS	6.30.09		FedEx #867255381230	6.30.09					
	FedEx			Rebecca Pace	7-1-09	1000	3A	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: Valerie Sibeto DATE Signed (MM/DD/YY): 6.30.09

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 3012195

Courier: (Fed Ex) ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Optional
Proj. Due Date:
Proj. Name:

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes (no) Seals intact: ☐ yes ☐ no

Packing Material: ☐ (Bubble Wrap) ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used (3) 4 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 3.4 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 7-1

Temp should be above freezing to 6°C Comments:

Chain of Custody Present:	(Yes) ☐No ☐N/A	1.
Chain of Custody Filled Out:	(Yes) ☐No ☐N/A	2.
Chain of Custody Relinquished:	(Yes) ☐No ☐N/A	3.
Sampler Name & Signature on COC:	(Yes) ☐No ☐N/A	4.
Samples Arrived within Hold Time:	(Yes) ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes (No) ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes (No) ☐N/A	7.
Sufficient Volume:	(Yes) ☐No ☐N/A	8.
Correct Containers Used:	(Yes) ☐No ☐N/A	9.
-Pace Containers Used:	(Yes) ☐No ☐N/A	
Containers Intact:	(Yes) ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes (No) ☐N/A	11.
Sample Labels match COC:	(Yes) ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	(Yes) ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	(Yes) ☐No ☐N/A	
exceptions: (VOA), coliform, TOC, O&G, WI-DRO (water)	(Yes) ☐No	Initial when completed: [illegible] Lot # of added preservative:
Samples checked for dechlorination:	☐Yes ☐No (N/A)	14.
Headspace in VOA Vials (>6mm):	☐Yes (No) ☐N/A	15.
Trip Blank Present:	(Yes) ☐No ☐N/A	16.
Trip Blank Custody Seals Present	(Yes) ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Raelyn Sylvester **Date:** 7/1/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

July 31, 2009

Mr. Mark Dowiak
URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

RE: Project: Essex-Hope 41568453.10000
Pace Project No.: 3013106

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on July 23, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3013106

Pennsylvania Certification IDs

Michigan/PADEP Certification
Massachusetts Certification #: M-PA1457
Maryland Certification #: 308
Maine Certification #: PA0091
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Kentucky Certification #: 90133
Kansas/NELAC Certification #: E-10358
Iowa Certification #: 391
Indiana/PADEP Certification
Illinois/PADEP Certification
Idaho Certification
Hawaii/PADEP Certification
Guam/PADEP Certification
Georgia Certification #: 968
Florida/NELAC Certification #: E87683
Delaware Certification
Connecticut Certification #: PH 0694
Colorado Certification
California/NELAC Certification #: 04222CA
Arkansas Certification
Arizona Certification #: AZ0734
Alabama Certification #: 41590
Wyoming Certification #: 8TMS-Q
Wisconsin/PADEP Certification
West Virginia Certification #: 143
Washington Certification #: C1941
Virginia Certification #: 00112
Virgin Island/PADEP Certification
Utah/NELAC Certification #: ANTE
Texas/NELAC Certification #: T104704188-09 TX
Tennessee Certification #: TN2867
South Dakota Certification
Puerto Rico Certification #: PA01457
Pennsylvania/NELAC Certification #: 65-282
Oregon/NELAC Certification #: PA200002
North Carolina Certification #: 42706
New York/NELAC Certification #: 10888
New Mexico Certification
New Jersey/NELAC Certification #: PA 051
New Hampshire/NELAC Certification #: 2976
Nevada Certification
Montana Certification #: Cert 0082
Missouri Certification #: 235
Minnesota Certification #: 042-999-425

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(724)850-5600

SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568453.10000
Pace Project No.: 3013106

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3013106001	**PRE-CARB**	EPA 8260	JAS	42	PASI-PA
3013106002	**PRIMARY-EFF**	EPA 8260	JAS	42	PASI-PA
3013106003	**POST-CARB**	EPA 8260	JAS	42	PASI-PA
3013106004	**TB-01**	EPA 8260	JAS	42	PASI-PA

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Greensburg, PA 15601
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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3013106

Sample: PRE-CARB **Lab ID: 3013106001** Collected: 07/22/09 08:35 Received: 07/23/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**408**	ug/L	200	20		07/29/09 18:05	67-64-1	
Benzene	**22.1**	ug/L	1.0	1		07/27/09 21:31	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/27/09 21:31	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/27/09 21:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/27/09 21:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/27/09 21:31	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/27/09 21:31	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/09 21:31	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/27/09 21:31	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/27/09 21:31	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/27/09 21:31	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/27/09 21:31	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/27/09 21:31	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 21:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 21:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 21:31	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/09 21:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/09 21:31	107-06-2	
1,1-Dichloroethene	**25.5**	ug/L	5.0	1		07/27/09 21:31	75-35-4	
cis-1,2-Dichloroethene	**4130**	ug/L	100	20		07/29/09 18:05	156-59-2	
trans-1,2-Dichloroethene	**87.5**	ug/L	5.0	1		07/27/09 21:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/27/09 21:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/27/09 21:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/27/09 21:31	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/27/09 21:31	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/27/09 21:31	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		07/27/09 21:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/27/09 21:31	108-10-1	
Styrene	ND	ug/L	5.0	1		07/27/09 21:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/27/09 21:31	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/09 21:31	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/09 21:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/09 21:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/27/09 21:31	79-00-5	
Trichloroethene	**3820**	ug/L	100	20		07/29/09 18:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/27/09 21:31	75-69-4	
Vinyl chloride	**516**	ug/L	20.0	20		07/29/09 18:05	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/27/09 21:31	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		07/27/09 21:31	95-47-6	
4-Bromofluorobenzene (S)	91	%	70-130	1		07/27/09 21:31	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		07/27/09 21:31	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		07/27/09 21:31	2037-26-5	

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3013106

Sample: PRIMARY-EFF **Lab ID: 3013106002** Collected: 07/22/09 08:40 Received: 07/23/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**171**	ug/L	10.0	1		07/27/09 21:56	67-64-1	
Benzene	**4.5**	ug/L	1.0	1		07/27/09 21:56	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/27/09 21:56	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/27/09 21:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/27/09 21:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/27/09 21:56	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/27/09 21:56	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/09 21:56	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/27/09 21:56	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/27/09 21:56	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/27/09 21:56	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/27/09 21:56	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/27/09 21:56	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 21:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 21:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 21:56	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/09 21:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/09 21:56	107-06-2	
1,1-Dichloroethene	**7.3**	ug/L	5.0	1		07/27/09 21:56	75-35-4	
cis-1,2-Dichloroethene	**732**	ug/L	100	20		07/29/09 18:31	156-59-2	
trans-1,2-Dichloroethene	**12.1**	ug/L	5.0	1		07/27/09 21:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/27/09 21:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/27/09 21:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/27/09 21:56	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/27/09 21:56	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/27/09 21:56	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		07/27/09 21:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/27/09 21:56	108-10-1	
Styrene	ND	ug/L	5.0	1		07/27/09 21:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/27/09 21:56	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/09 21:56	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/09 21:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/09 21:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/27/09 21:56	79-00-5	
Trichloroethene	**260**	ug/L	100	20		07/29/09 18:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/27/09 21:56	75-69-4	
Vinyl chloride	**176**	ug/L	20.0	20		07/29/09 18:31	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/27/09 21:56	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		07/27/09 21:56	95-47-6	
4-Bromofluorobenzene (S)	94	%	70-130	1		07/27/09 21:56	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		07/27/09 21:56	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		07/27/09 21:56	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3013106

Sample: POST-CARB **Lab ID: 3013106003** Collected: 07/22/09 08:45 Received: 07/23/09 10:00 Matrix: Water

Comments: • Post Carb samples were composited prior to analysis.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**22.5**	ug/L	10.0	1		07/27/09 22:22	67-64-1	
Benzene	ND	ug/L	1.0	1		07/27/09 22:22	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/27/09 22:22	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/27/09 22:22	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/27/09 22:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/27/09 22:22	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/27/09 22:22	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/09 22:22	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/27/09 22:22	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/27/09 22:22	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/27/09 22:22	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/27/09 22:22	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/27/09 22:22	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 22:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 22:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 22:22	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/09 22:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/09 22:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/27/09 22:22	75-35-4	
cis-1,2-Dichloroethene	**21.2**	ug/L	5.0	1		07/27/09 22:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/09 22:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/27/09 22:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/27/09 22:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/27/09 22:22	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/27/09 22:22	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/27/09 22:22	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		07/27/09 22:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/27/09 22:22	108-10-1	
Styrene	ND	ug/L	5.0	1		07/27/09 22:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/27/09 22:22	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/09 22:22	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/09 22:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/09 22:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/27/09 22:22	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/27/09 22:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/27/09 22:22	75-69-4	
Vinyl chloride	**43.3**	ug/L	1.0	1		07/27/09 22:22	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/27/09 22:22	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		07/27/09 22:22	95-47-6	
4-Bromofluorobenzene (S)	91	%	70-130	1		07/27/09 22:22	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		07/27/09 22:22	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		07/27/09 22:22	2037-26-5	

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3013106

Sample: TB-01 **Lab ID: 3013106004** Collected: 07/22/09 00:00 Received: 07/23/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		07/27/09 17:13	67-64-1	
Benzene	ND	ug/L	1.0	1		07/27/09 17:13	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/27/09 17:13	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/27/09 17:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/27/09 17:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/27/09 17:13	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/27/09 17:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/09 17:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/27/09 17:13	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/27/09 17:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/27/09 17:13	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/27/09 17:13	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/27/09 17:13	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 17:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 17:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 17:13	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/09 17:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/09 17:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/27/09 17:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/09 17:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/09 17:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/27/09 17:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/27/09 17:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/27/09 17:13	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/27/09 17:13	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/27/09 17:13	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		07/27/09 17:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/27/09 17:13	108-10-1	
Styrene	ND	ug/L	5.0	1		07/27/09 17:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/27/09 17:13	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/09 17:13	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/09 17:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/09 17:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/27/09 17:13	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/27/09 17:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/27/09 17:13	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		07/27/09 17:13	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/27/09 17:13	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		07/27/09 17:13	95-47-6	
4-Bromofluorobenzene (S)	93	%	70-130	1		07/27/09 17:13	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		07/27/09 17:13	17060-07-0	
Toluene-d8 (S)	93	%	70-130	1		07/27/09 17:13	2037-26-5	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3013106

QC Batch: MSV/3181 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3013106001, 3013106002, 3013106003, 3013106004

METHOD BLANK: 78142 Matrix: Water
Associated Lab Samples: 3013106001, 3013106002, 3013106003, 3013106004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	07/27/09 15:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	07/27/09 15:30	
1,1,2-Trichloroethane	ug/L	ND	5.0	07/27/09 15:30	
1,1-Dichloroethane	ug/L	ND	5.0	07/27/09 15:30	
1,1-Dichloroethene	ug/L	ND	5.0	07/27/09 15:30	
1,2-Dichlorobenzene	ug/L	ND	5.0	07/27/09 15:30	
1,2-Dichloroethane	ug/L	ND	5.0	07/27/09 15:30	
1,2-Dichloropropane	ug/L	ND	5.0	07/27/09 15:30	
1,3-Dichlorobenzene	ug/L	ND	5.0	07/27/09 15:30	
1,4-Dichlorobenzene	ug/L	ND	5.0	07/27/09 15:30	
2-Butanone (MEK)	ug/L	ND	10.0	07/27/09 15:30	
2-Hexanone	ug/L	ND	10.0	07/27/09 15:30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/27/09 15:30	
Acetone	ug/L	ND	10.0	07/27/09 15:30	
Benzene	ug/L	ND	1.0	07/27/09 15:30	
Bromodichloromethane	ug/L	ND	5.0	07/27/09 15:30	
Bromoform	ug/L	ND	5.0	07/27/09 15:30	
Bromomethane	ug/L	ND	5.0	07/27/09 15:30	
Carbon disulfide	ug/L	ND	5.0	07/27/09 15:30	
Carbon tetrachloride	ug/L	ND	5.0	07/27/09 15:30	
Chlorobenzene	ug/L	ND	5.0	07/27/09 15:30	
Chloroethane	ug/L	ND	5.0	07/27/09 15:30	
Chloroform	ug/L	ND	5.0	07/27/09 15:30	
Chloromethane	ug/L	ND	5.0	07/27/09 15:30	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/27/09 15:30	
cis-1,3-Dichloropropene	ug/L	ND	5.0	07/27/09 15:30	
Dibromochloromethane	ug/L	ND	5.0	07/27/09 15:30	
Ethylbenzene	ug/L	ND	5.0	07/27/09 15:30	
m&p-Xylene	ug/L	ND	5.0	07/27/09 15:30	
Methylene Chloride	ug/L	ND	5.0	07/27/09 15:30	
o-Xylene	ug/L	ND	5.0	07/27/09 15:30	
Styrene	ug/L	ND	5.0	07/27/09 15:30	
Tetrachloroethene	ug/L	ND	5.0	07/27/09 15:30	
Toluene	ug/L	ND	5.0	07/27/09 15:30	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/27/09 15:30	
trans-1,3-Dichloropropene	ug/L	ND	5.0	07/27/09 15:30	
Trichloroethene	ug/L	ND	5.0	07/27/09 15:30	
Trichlorofluoromethane	ug/L	ND	5.0	07/27/09 15:30	
Vinyl chloride	ug/L	ND	1.0	07/27/09 15:30	
1,2-Dichloroethane-d4 (S)	%	99	70-130	07/27/09 15:30	
4-Bromofluorobenzene (S)	%	95	70-130	07/27/09 15:30	
Toluene-d8 (S)	%	95	70-130	07/27/09 15:30	

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3013106

LABORATORY CONTROL SAMPLE: 78143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.2	111	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	70-130	
1,1,2-Trichloroethane	ug/L	20	21.1	106	70-130	
1,1-Dichloroethane	ug/L	20	21.9	109	70-130	
1,1-Dichloroethene	ug/L	20	21.0	105	70-130	
1,2-Dichlorobenzene	ug/L	20	20.6	103	70-130	
1,2-Dichloroethane	ug/L	20	21.0	105	70-130	
1,2-Dichloropropane	ug/L	20	20.3	101	70-130	
1,3-Dichlorobenzene	ug/L	20	20.4	102	70-130	
1,4-Dichlorobenzene	ug/L	20	19.6	98	70-130	
2-Butanone (MEK)	ug/L	20	20.5	102	70-130	
2-Hexanone	ug/L	20	22.3	112	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	21.5	108	70-130	
Acetone	ug/L	20	23.8	119	70-130	
Benzene	ug/L	20	20.2	101	70-130	
Bromodichloromethane	ug/L	20	18.8	94	70-130	
Bromoform	ug/L	20	16.5	82	70-130	
Bromomethane	ug/L	20	29.9	149	70-130	L1
Carbon disulfide	ug/L	20	23.7	118	70-130	
Carbon tetrachloride	ug/L	20	19.2	96	70-130	
Chlorobenzene	ug/L	20	20.7	104	70-130	
Chloroethane	ug/L	20	13.0	65	70-130	L2
Chloroform	ug/L	20	23.0	115	70-130	
Chloromethane	ug/L	20	14.1	70	70-130	
cis-1,2-Dichloroethene	ug/L	20	23.6	118	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	70-130	
Dibromochloromethane	ug/L	20	18.6	93	70-130	
Ethylbenzene	ug/L	20	20.9	105	70-130	
m&p-Xylene	ug/L	40	43.1	108	70-130	
Methylene Chloride	ug/L	20	24.2	121	70-130	
o-Xylene	ug/L	20	20.6	103	70-130	
Styrene	ug/L	20	21.1	105	70-130	
Tetrachloroethene	ug/L	20	21.2	106	70-130	
Toluene	ug/L	20	20.5	102	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.7	113	70-130	
trans-1,3-Dichloropropene	ug/L	20	21.6	108	70-130	
Trichloroethene	ug/L	20	19.9	100	70-130	
Trichlorofluoromethane	ug/L	20	15.0	75	70-130	
Vinyl chloride	ug/L	20	13.6	68	70-130	L2
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3013106

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 78144 78145

Parameter	Units	3013106002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	17.7	18.4	88	92	70-130	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.9	16.1	89	80	70-130	10	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.8	18.1	99	91	70-130	9	
1,1-Dichloroethane	ug/L	ND	20	20	20.1	19.3	100	96	70-130	4	
1,1-Dichloroethene	ug/L	7.3	20	20	24.5	25.2	86	90	70-130	3	
1,2-Dichlorobenzene	ug/L	ND	20	20	16.1	15.5	81	77	70-130	4	
1,2-Dichloroethane	ug/L	ND	20	20	21.6	19.2	108	96	70-130	12	
1,2-Dichloropropane	ug/L	ND	20	20	17.6	16.8	88	84	70-130	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	14.7	14.5	73	72	70-130	1	
1,4-Dichlorobenzene	ug/L	ND	20	20	14.4	14.1	72	71	70-130	2	
2-Butanone (MEK)	ug/L	ND	20	20	22.8	20.4	114	102	70-130	11	
2-Hexanone	ug/L	ND	20	20	22.5	20.2	113	101	70-130	11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	22.0	19.8	110	99	70-130	11	
Acetone	ug/L	171	20	20	181	214	52	218	70-130	17	M0
Benzene	ug/L	4.5	20	20	19.6	20.4	75	79	70-130	4	
Bromodichloromethane	ug/L	ND	20	20	14.9	15.2	74	76	70-130	2	
Bromoform	ug/L	ND	20	20	13.7	13.7	68	69	70-130	.3	M0
Bromomethane	ug/L	ND	20	20	18.4	20.7	92	103	70-130	11	
Carbon disulfide	ug/L	ND	20	20	21.2	17.4	106	87	70-130	20	
Carbon tetrachloride	ug/L	ND	20	20	14.3	15.4	71	77	70-130	8	
Chlorobenzene	ug/L	ND	20	20	16.5	16.4	83	82	70-130	.9	
Chloroethane	ug/L	ND	20	20	27.5	20.1	137	100	70-130	31	M0
Chloroform	ug/L	ND	20	20	21.0	19.8	105	99	70-130	6	
Chloromethane	ug/L	ND	20	20	26.9	25.4	135	127	70-130	6	M0
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.4	15.2	77	76	70-130	1	
Dibromochloromethane	ug/L	ND	20	20	14.3	14.6	72	73	70-130	2	
Ethylbenzene	ug/L	ND	20	20	15.7	15.6	79	78	70-130	.8	
m&p-Xylene	ug/L	ND	40	40	32.3	32.4	81	81	70-130	.5	
Methylene Chloride	ug/L	ND	20	20	22.7	21.5	113	108	70-130	5	
o-Xylene	ug/L	ND	20	20	16.1	16.1	81	80	70-130	.3	
Styrene	ug/L	ND	20	20	16.5	15.5	82	78	70-130	6	
Tetrachloroethene	ug/L	ND	20	20	15.1	15.1	75	75	70-130	.2	
Toluene	ug/L	ND	20	20	16.2	16.1	81	80	70-130	1	
trans-1,2-Dichloroethene	ug/L	12.1	20	20	29.4	27.4	86	76	70-130	7	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.5	16.8	88	84	70-130	4	
Trichlorofluoromethane	ug/L	ND	20	20	24.7	19.3	123	96	70-130	25	
1,2-Dichloroethane-d4 (S)	%						113	108	70-130		
4-Bromofluorobenzene (S)	%						92	93	70-130		
Toluene-d8 (S)	%						94	96	70-130		

Pace Analytical Services, Inc.
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QUALIFIERS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3013106

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery was outside laboratory control limits.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568453.10000
Pace Project No.: 3013106

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3013106001	**PRE-CARB**	EPA 8260	MSV/3181		
3013106002	**PRIMARY-EFF**	EPA 8260	MSV/3181		
3013106003	**POST-CARB**	EPA 8260	MSV/3181		
3013106004	**TB-01**	EPA 8260	MSV/3181		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1251885

Section A — **Required** Client Information:

Company: URS CORP
Address: 501 HOLIDAY DR. FOSTER PLAZA 4, STE. 300 PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4700 Fax: 412-503 4701
Requested Due Date/TAT: STANDARD

Section B — **Required** Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41568453
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41568453.10000

Section C — Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Requested Analysis Filtered (Y/N)

Section D — **Required** Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	NT	G			7.22.09	0835		3				X					X	X		001
2	PRIMARY-EFF						0840		3				X					X	X		002
3	POST-CARB						0845		3				X					X	X		003
4	POST-CARB						0915		3				X					X	X		
5	POST-CARB						0945		3				X					X	X		
6	POST-CARB						1015		3				X					X	X		
7	TB-01	V	V			7.22.09	—		2				X					X	X		004
8																					
9																					
10																					
11																					
12																					

3013106

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COMBINE FOUR (4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE	Valerie Sibeto/URS	7.22.09		FedEx #867255381289	7.22.09					
				FedEx - Courier	7.23.09	1000	4.1	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: Valerie Sibeto DATE Signed (MM/DD/YY): 7.22.09

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: TURS Project # 30131106

Courier: (Fed Ex) UPS USPS Client Commercial Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: yes (no) Seals intact: yes no

Packing Material: (Bubble Wrap) Bubble Bags None Other _____

Thermometer Used (3) 4 Type of Ice: (Wet) Blue None Samples on ice, cooling process has begun

Cooler Temperature 4.1 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: CAW 7-23

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	(Yes) No N/A	1.
Chain of Custody Filled Out:	(Yes) No N/A	2.
Chain of Custody Relinquished:	(Yes) No N/A	3.
Sampler Name & Signature on COC:	(Yes) No N/A	4.
Samples Arrived within Hold Time:	(Yes) No N/A	5.
Short Hold Time Analysis (<72hr):	Yes (No) N/A	6.
Rush Turn Around Time Requested:	Yes (No) N/A	7.
Sufficient Volume:	(Yes) No N/A	8.
Correct Containers Used:	(Yes) No N/A	9.
-Pace Containers Used:	(Yes) No N/A	
Containers Intact:	(Yes) No N/A	10.
Filtered volume received for Dissolved tests	Yes (No) N/A	11.
Sample Labels match COC:	(Yes) No N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	(Yes) No N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	(Yes) No N/A	
exceptions: (VOA) coliform, TOC, O&G, WI-DRO (water)	(Yes) No	Initial when completed CAW / Lot # of added preservative
Samples checked for dechlorination:	Yes No (N/A)	14.
Headspace in VOA Vials (>6mm):	Yes (No) N/A	15.
Trip Blank Present:	(Yes) No N/A	16.
Trip Blank Custody Seals Present	(Yes) No N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Raelyn Sylvester **Date:** 7/23/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

September 09, 2009

Mr. Mark Dowiak
URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

RE: Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on September 01, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
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(724)850-5600

CERTIFICATIONS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

Pennsylvania Certification IDs

Wyoming Certification #: 8TMS-Q
Wisconsin/PADEP Certification
West Virginia Certification #: 143
Washington Certification #: C1941
Virginia Certification #: 00112
Virgin Island/PADEP Certification
Utah/NELAC Certification #: ANTE
Texas/NELAC Certification #: T104704188-09 TX
Tennessee Certification #: TN2867
South Dakota Certification
Puerto Rico Certification #: PA01457
Pennsylvania/NELAC Certification #: 65-282
Oregon/NELAC Certification #: PA200002
North Carolina Certification #: 42706
New York/NELAC Certification #: 10888
New Mexico Certification
New Jersey/NELAC Certification #: PA 051
New Hampshire/NELAC Certification #: 2976
Nevada Certification
Montana Certification #: Cert 0082
Missouri Certification #: 235
Minnesota Certification #: 042-999-425
Michigan/PADEP Certification
Massachusetts Certification #: M-PA1457
Maryland Certification #: 308
Maine Certification #: PA0091
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Kentucky Certification #: 90133
Kansas/NELAC Certification #: E-10358
Iowa Certification #: 391
Indiana/PADEP Certification
Illinois/PADEP Certification
Idaho Certification
Hawaii/PADEP Certification
Guam/PADEP Certification
Georgia Certification #: 968
Florida/NELAC Certification #: E87683
Delaware Certification
Connecticut Certification #: PH 0694
Colorado Certification
California/NELAC Certification #: 04222CA
Arkansas Certification
Arizona Certification #: AZ0734
Alabama Certification #: 41590

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SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3014860001	**PRE-CARB**	EPA 8260	MAK	42	PASI-PA
3014860002	**PRIMARY-EFF**	EPA 8260	MAK	42	PASI-PA
3014860003	**POST-CARB**	EPA 8260	MAK	42	PASI-PA
3014860004	**TB-01**	EPA 8260	MAK	42	PASI-PA

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

Sample: PRE-CARB **Lab ID: 3014860001** Collected: 08/31/09 14:00 Received: 09/01/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**422**	ug/L	400	40		09/03/09 16:40	67-64-1	
Benzene	**12.4**	ug/L	1.0	1		09/03/09 16:13	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/03/09 16:13	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/03/09 16:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/03/09 16:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/03/09 16:13	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/03/09 16:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/03/09 16:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/03/09 16:13	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/03/09 16:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/03/09 16:13	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/03/09 16:13	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/03/09 16:13	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 16:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 16:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 16:13	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/03/09 16:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/03/09 16:13	107-06-2	
1,1-Dichloroethene	**21.0**	ug/L	5.0	1		09/03/09 16:13	75-35-4	
cis-1,2-Dichloroethene	**7250**	ug/L	200	40		09/03/09 16:40	156-59-2	
trans-1,2-Dichloroethene	**50.3**	ug/L	5.0	1		09/03/09 16:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/03/09 16:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/09 16:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/09 16:13	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/03/09 16:13	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/03/09 16:13	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		09/03/09 16:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/03/09 16:13	108-10-1	
Styrene	ND	ug/L	5.0	1		09/03/09 16:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/03/09 16:13	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/03/09 16:13	127-18-4	
Toluene	ND	ug/L	5.0	1		09/03/09 16:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/03/09 16:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/03/09 16:13	79-00-5	
Trichloroethene	**2300**	ug/L	200	40		09/03/09 16:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/03/09 16:13	75-69-4	
Vinyl chloride	**499**	ug/L	40.0	40		09/03/09 16:40	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/03/09 16:13	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		09/03/09 16:13	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		09/03/09 16:13	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		09/03/09 16:13	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		09/03/09 16:13	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

Sample: PRIMARY-EFF **Lab ID: 3014860002** Collected: 08/31/09 14:05 Received: 09/01/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**430**	ug/L	400	40		09/03/09 17:35	67-64-1	
Benzene	ND	ug/L	1.0	1		09/03/09 17:08	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/03/09 17:08	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/03/09 17:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/03/09 17:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/03/09 17:08	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/03/09 17:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/03/09 17:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/03/09 17:08	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/03/09 17:08	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/03/09 17:08	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/03/09 17:08	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/03/09 17:08	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 17:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 17:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 17:08	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/03/09 17:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/03/09 17:08	107-06-2	
1,1-Dichloroethene	**7.6**	ug/L	5.0	1		09/03/09 17:08	75-35-4	
cis-1,2-Dichloroethene	**2720**	ug/L	200	40		09/03/09 17:35	156-59-2	
trans-1,2-Dichloroethene	**12.5**	ug/L	5.0	1		09/03/09 17:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/03/09 17:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/09 17:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/09 17:08	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/03/09 17:08	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/03/09 17:08	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		09/03/09 17:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/03/09 17:08	108-10-1	
Styrene	ND	ug/L	5.0	1		09/03/09 17:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/03/09 17:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/03/09 17:08	127-18-4	
Toluene	ND	ug/L	5.0	1		09/03/09 17:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/03/09 17:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/03/09 17:08	79-00-5	
Trichloroethene	**125**	ug/L	5.0	1		09/03/09 17:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/03/09 17:08	75-69-4	
Vinyl chloride	**595**	ug/L	40.0	40		09/03/09 17:35	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/03/09 17:08	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		09/03/09 17:08	95-47-6	
4-Bromofluorobenzene (S)	104	%	70-130	1		09/03/09 17:08	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		09/03/09 17:08	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		09/03/09 17:08	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

Sample: POST-CARB **Lab ID: 3014860003** Collected: 08/31/09 00:00 Received: 09/01/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**350**	ug/L	100	10		09/03/09 18:31	67-64-1	
Benzene	ND	ug/L	1.0	1		09/03/09 18:03	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/03/09 18:03	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/03/09 18:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/03/09 18:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/03/09 18:03	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/03/09 18:03	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/03/09 18:03	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/03/09 18:03	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/03/09 18:03	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/03/09 18:03	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/03/09 18:03	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/03/09 18:03	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 18:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 18:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 18:03	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/03/09 18:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/03/09 18:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/03/09 18:03	75-35-4	
cis-1,2-Dichloroethene	**26.7**	ug/L	5.0	1		09/03/09 18:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/03/09 18:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/03/09 18:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/09 18:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/09 18:03	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/03/09 18:03	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/03/09 18:03	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		09/03/09 18:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/03/09 18:03	108-10-1	
Styrene	ND	ug/L	5.0	1		09/03/09 18:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/03/09 18:03	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/03/09 18:03	127-18-4	
Toluene	ND	ug/L	5.0	1		09/03/09 18:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/03/09 18:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/03/09 18:03	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/03/09 18:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/03/09 18:03	75-69-4	
Vinyl chloride	**566**	ug/L	10.0	10		09/03/09 18:31	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/03/09 18:03	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		09/03/09 18:03	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130	1		09/03/09 18:03	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		09/03/09 18:03	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/03/09 18:03	2037-26-5	

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(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

Sample: TB-01 **Lab ID: 3014860004** Collected: 08/31/09 00:00 Received: 09/01/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/03/09 18:58	67-64-1	
Benzene	ND	ug/L	1.0	1		09/03/09 18:58	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/03/09 18:58	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/03/09 18:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/03/09 18:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/03/09 18:58	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/03/09 18:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/03/09 18:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/03/09 18:58	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/03/09 18:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/03/09 18:58	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/03/09 18:58	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/03/09 18:58	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 18:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 18:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 18:58	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/03/09 18:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/03/09 18:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/03/09 18:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/03/09 18:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/03/09 18:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/03/09 18:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/09 18:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/09 18:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/03/09 18:58	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/03/09 18:58	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		09/03/09 18:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/03/09 18:58	108-10-1	
Styrene	ND	ug/L	5.0	1		09/03/09 18:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/03/09 18:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/03/09 18:58	127-18-4	
Toluene	ND	ug/L	5.0	1		09/03/09 18:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/03/09 18:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/03/09 18:58	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/03/09 18:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/03/09 18:58	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		09/03/09 18:58	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/03/09 18:58	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		09/03/09 18:58	95-47-6	
4-Bromofluorobenzene (S)	104	%	70-130	1		09/03/09 18:58	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		09/03/09 18:58	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/03/09 18:58	2037-26-5	

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

QC Batch: MSV/3533 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3014860001, 3014860002, 3014860003, 3014860004

METHOD BLANK: 89482 Matrix: Water
Associated Lab Samples: 3014860001, 3014860002, 3014860003, 3014860004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	09/03/09 13:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	09/03/09 13:55	
1,1,2-Trichloroethane	ug/L	ND	5.0	09/03/09 13:55	
1,1-Dichloroethane	ug/L	ND	5.0	09/03/09 13:55	
1,1-Dichloroethene	ug/L	ND	5.0	09/03/09 13:55	
1,2-Dichlorobenzene	ug/L	ND	5.0	09/03/09 13:55	
1,2-Dichloroethane	ug/L	ND	5.0	09/03/09 13:55	
1,2-Dichloropropane	ug/L	ND	5.0	09/03/09 13:55	
1,3-Dichlorobenzene	ug/L	ND	5.0	09/03/09 13:55	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/03/09 13:55	
2-Butanone (MEK)	ug/L	ND	10.0	09/03/09 13:55	
2-Hexanone	ug/L	ND	10.0	09/03/09 13:55	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	09/03/09 13:55	
Acetone	ug/L	ND	10.0	09/03/09 13:55	
Benzene	ug/L	ND	1.0	09/03/09 13:55	
Bromodichloromethane	ug/L	ND	5.0	09/03/09 13:55	
Bromoform	ug/L	ND	5.0	09/03/09 13:55	
Bromomethane	ug/L	ND	5.0	09/03/09 13:55	
Carbon disulfide	ug/L	ND	5.0	09/03/09 13:55	
Carbon tetrachloride	ug/L	ND	5.0	09/03/09 13:55	
Chlorobenzene	ug/L	ND	5.0	09/03/09 13:55	
Chloroethane	ug/L	ND	5.0	09/03/09 13:55	
Chloroform	ug/L	ND	5.0	09/03/09 13:55	
Chloromethane	ug/L	ND	5.0	09/03/09 13:55	
cis-1,2-Dichloroethene	ug/L	ND	5.0	09/03/09 13:55	
cis-1,3-Dichloropropene	ug/L	ND	5.0	09/03/09 13:55	
Dibromochloromethane	ug/L	ND	5.0	09/03/09 13:55	
Ethylbenzene	ug/L	ND	5.0	09/03/09 13:55	
m&p-Xylene	ug/L	ND	5.0	09/03/09 13:55	
Methylene Chloride	ug/L	ND	5.0	09/03/09 13:55	
o-Xylene	ug/L	ND	5.0	09/03/09 13:55	
Styrene	ug/L	ND	5.0	09/03/09 13:55	
Tetrachloroethene	ug/L	ND	5.0	09/03/09 13:55	
Toluene	ug/L	ND	5.0	09/03/09 13:55	
trans-1,2-Dichloroethene	ug/L	ND	5.0	09/03/09 13:55	
trans-1,3-Dichloropropene	ug/L	ND	5.0	09/03/09 13:55	
Trichloroethene	ug/L	ND	5.0	09/03/09 13:55	
Trichlorofluoromethane	ug/L	ND	5.0	09/03/09 13:55	
Vinyl chloride	ug/L	ND	1.0	09/03/09 13:55	
1,2-Dichloroethane-d4 (S)	%	94	70-130	09/03/09 13:55	
4-Bromofluorobenzene (S)	%	100	70-130	09/03/09 13:55	
Toluene-d8 (S)	%	103	70-130	09/03/09 13:55	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

LABORATORY CONTROL SAMPLE: 89483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.5	87	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.3	107	70-130	
1,1,2-Trichloroethane	ug/L	20	21.1	106	70-130	
1,1-Dichloroethane	ug/L	20	19.2	96	70-130	
1,1-Dichloroethene	ug/L	20	16.2	81	70-130	
1,2-Dichlorobenzene	ug/L	20	20.8	104	70-130	
1,2-Dichloroethane	ug/L	20	19.1	95	70-130	
1,2-Dichloropropane	ug/L	20	20.6	103	70-130	
1,3-Dichlorobenzene	ug/L	20	20.6	103	70-130	
1,4-Dichlorobenzene	ug/L	20	19.8	99	70-130	
2-Butanone (MEK)	ug/L	20	22.5	113	70-130	
2-Hexanone	ug/L	20	22.5	113	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	21.7	109	70-130	
Acetone	ug/L	20	23.6	118	70-130	
Benzene	ug/L	20	19.0	95	70-130	
Bromodichloromethane	ug/L	20	20.6	103	70-130	
Bromoform	ug/L	20	19.8	99	70-130	
Bromomethane	ug/L	20	16.8	84	70-130	
Carbon disulfide	ug/L	20	18.6	93	70-130	
Carbon tetrachloride	ug/L	20	17.7	88	70-130	
Chlorobenzene	ug/L	20	19.5	97	70-130	
Chloroethane	ug/L	20	11.1	56	70-130	L0
Chloroform	ug/L	20	20.5	102	70-130	
Chloromethane	ug/L	20	17.5	88	70-130	
cis-1,2-Dichloroethene	ug/L	20	21.5	107	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.1	95	70-130	
Dibromochloromethane	ug/L	20	20.2	101	70-130	
Ethylbenzene	ug/L	20	18.4	92	70-130	
m&p-Xylene	ug/L	40	37.2	93	70-130	
Methylene Chloride	ug/L	20	23.3	117	70-130	
o-Xylene	ug/L	20	18.5	93	70-130	
Styrene	ug/L	20	19.7	99	70-130	
Tetrachloroethene	ug/L	20	19.3	96	70-130	
Toluene	ug/L	20	18.7	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.8	99	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.2	101	70-130	
Trichloroethene	ug/L	20	19.4	97	70-130	
Trichlorofluoromethane	ug/L	20	16.6	83	70-130	
Vinyl chloride	ug/L	20	16.9	85	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 89846 89847

Parameter	Units	3014856002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	19.5	20.4	98	102	70-130	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.4	20.1	102	101	70-130	1	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.1	21.2	105	106	70-130	.9	
1,1-Dichloroethane	ug/L	ND	20	20	20.0	20.8	100	104	70-130	4	
1,1-Dichloroethene	ug/L	ND	20	20	18.9	20.0	95	100	70-130	6	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.3	17.7	91	88	70-130	3	
1,2-Dichloroethane	ug/L	ND	20	20	18.4	19.3	92	97	70-130	5	
1,2-Dichloropropane	ug/L	ND	20	20	19.7	20.1	98	100	70-130	2	
1,3-Dichlorobenzene	ug/L	ND	20	20	17.2	16.3	86	82	70-130	5	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.3	16.4	86	82	70-130	5	
2-Butanone (MEK)	ug/L	ND	20	20	17.2	20.4	86	102	70-130	17	
2-Hexanone	ug/L	ND	20	20	20.2	21.3	101	107	70-130	5	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	19.9	21.0	99	105	70-130	6	
Acetone	ug/L	ND	20	20	16.3	20.1	82	101	70-130	21	
Benzene	ug/L	ND	20	20	20.1	20.6	101	103	70-130	2	
Bromodichloromethane	ug/L	ND	20	20	18.1	19.7	91	98	70-130	8	
Bromoform	ug/L	ND	20	20	16.2	16.6	81	83	70-130	2	
Bromomethane	ug/L	ND	20	20	9.6	12.2	48	61	70-130	24	M0
Carbon disulfide	ug/L	ND	20	20	18.5	18.4	93	92	70-130	.9	
Carbon tetrachloride	ug/L	ND	20	20	19.7	21.0	98	105	70-130	7	
Chlorobenzene	ug/L	ND	20	20	18.1	18.0	91	90	70-130	.7	
Chloroethane	ug/L	ND	20	20	11.4	12.7	57	64	70-130	11	L0,M0
Chloroform	ug/L	ND	20	20	19.4	20.6	97	103	70-130	6	
Chloromethane	ug/L	ND	20	20	17.2	18.5	82	89	70-130	7	
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.2	22.5	106	112	70-130	6	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.8	18.8	89	94	70-130	6	
Dibromochloromethane	ug/L	ND	20	20	17.4	18.4	87	92	70-130	6	
Ethylbenzene	ug/L	ND	20	20	18.5	18.4	93	92	70-130	.9	
m&p-Xylene	ug/L	ND	40	40	38.9	39.2	97	98	70-130	.6	
Methylene Chloride	ug/L	ND	20	20	20.8	22.5	104	112	70-130	8	
o-Xylene	ug/L	ND	20	20	18.9	18.4	94	92	70-130	2	
Styrene	ug/L	ND	20	20	17.1	17.2	85	86	70-130	.6	
Tetrachloroethene	ug/L	ND	20	20	19.7	19.6	99	98	70-130	.9	
Toluene	ug/L	ND	20	20	18.8	19.4	94	97	70-130	3	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.2	20.7	96	103	70-130	7	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.0	18.8	90	94	70-130	4	
Trichloroethene	ug/L	ND	20	20	18.9	19.2	94	96	70-130	2	
Trichlorofluoromethane	ug/L	ND	20	20	16.9	18.5	85	92	70-130	9	
Vinyl chloride	ug/L	ND	20	20	16.4	17.2	82	86	70-130	5	
1,2-Dichloroethane-d4 (S)	%						100	107	70-130		
4-Bromofluorobenzene (S)	%						100	103	70-130		
Toluene-d8 (S)	%						100	105	70-130		

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QUALIFIERS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3014860001	**PRE-CARB**	EPA 8260	MSV/3533		
3014860002	**PRIMARY-EFF**	EPA 8260	MSV/3533		
3014860003	**POST-CARB**	EPA 8260	MSV/3533		
3014860004	**TB-01**	EPA 8260	MSV/3533		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1295756

Section A
Required Client Information:

Company: URS CORP
Address: 501 HOLIDAY DR FOSTER PLAZA 4 STE 300
PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4700 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B
Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41568453
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41568453.10000

Section C
Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

- ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
- ☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: NY

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes
MATRIX / CODE

Matrix	Code
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED – COMPOSITE START – DATE	COMPOSITE START – TIME	COMPOSITE END/GRAB – DATE	COMPOSITE END/GRAB – TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 30148600
1	PRE-CARB	WT	G			8-31-09	1400		3				X					X		001
2	PRIMARY-EFF						1405		3				X					X		002
3	POST-CARB						1410		3				X					X		003
4	POST-CARB						1440		3				X					X		
5	POST-CARB						1510		3				X					X		
6	POST-CARB						1540		3				X					X		
7	TB-01	WT				8.31.09	—		2				X					X		004
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COMPOSITE FOUR (4)	Valerie Sibeto/URS	8.31.09	1600	FedEx #8672 5538 1210	8.31.09	1600				
POST-CARB SAMPLES IN		Fed Ex -		C Urbowitz Pace	9.1.09	1000	5.6	Y	N	Y
LAB AND REPORT AS										
POST-CARB COMPOSITE										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: Valerie Sibeto DATE Signed (MM/DD/YY): 8-31-09

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 30148600

Courier: (Fed Ex) ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes (no) Seals intact: ☐ yes ☐ no

Packing Material: (Bubble Wrap) ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 3 (4) Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 5.6 Biological Tissue is Frozen: Yes No

Date and initials of person examining contents: 9-1

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	(Yes) ☐No ☐N/A	1.
Chain of Custody Filled Out:	(Yes) ☐No ☐N/A	2.
Chain of Custody Relinquished:	(Yes) ☐No ☐N/A	3.
Sampler Name & Signature on COC:	(Yes) ☐No ☐N/A	4.
Samples Arrived within Hold Time:	(Yes) ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes (No) ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes (No) ☐N/A	7.
Sufficient Volume:	(Yes) ☐No ☐N/A	8.
Correct Containers Used:	(Yes) ☐No ☐N/A	9.
-Pace Containers Used:	(Yes) ☐No ☐N/A	
Containers Intact:	(Yes) ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes (No) ☐N/A	11.
Sample Labels match COC:	(Yes) ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	(Yes) ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	(Yes) ☐No ☐N/A	
exceptions: (VOA) coliform, TOC, O&G, WI-DRO (water)	(Yes) ☐No	Initial when completed: Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No (N/A)	14.
Headspace in VOA Vials (>6mm):	☐Yes (No) ☐N/A	15.
Trip Blank Present:	(Yes) ☐No ☐N/A	16.
Trip Blank Custody Seals Present	(Yes) ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Raelyn Sylvester **Date:** 9/1/09 RES

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

December 09, 2009

Mr. Mark Dowiak
URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

RE: Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4 Greensburg, PA 15601
Wyoming Certification #: 8TMS-Q
Wisconsin/PADEP Certification
West Virginia Certification #: 143
Washington Certification #: C1941
Virginia Certification #: 00112
Virgin Island/PADEP Certification
Utah/NELAC Certification #: ANTE
Texas/NELAC Certification #: T104704188-09 TX
Tennessee Certification #: TN2867
South Dakota Certification
Puerto Rico Certification #: PA01457
Pennsylvania/NELAC Certification #: 65-282
Oregon/NELAC Certification #: PA200002
North Carolina Certification #: 42706
New York/NELAC Certification #: 10888
New Mexico Certification
New Jersey/NELAC Certification #: PA 051
New Hampshire/NELAC Certification #: 2976
Nevada Certification
Montana Certification #: Cert 0082
Missouri Certification #: 235
Minnesota Certification #: 042-999-425
Michigan/PADEP Certification
Massachusetts Certification #: M-PA1457
Maryland Certification #: 308
Maine Certification #: PA0091
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Kentucky Certification #: 90133
Kansas/NELAC Certification #: E-10358
Iowa Certification #: 391
Indiana/PADEP Certification
Illinois/PADEP Certification
Idaho Certification
Hawaii/PADEP Certification
Guam/PADEP Certification
Georgia Certification #: 968
Florida/NELAC Certification #: E87683
Delaware Certification
Connecticut Certification #: PH 0694
Colorado Certification
California/NELAC Certification #: 04222CA
Arkansas Certification
Arizona Certification #: AZ0734
Alabama Certification #: 41590

Pace Analytical Services, Inc.
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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3019170001	**PRE-CARB**	EPA 8260	JAS, JHC	42	PASI-PA
3019170002	**PRIMARY-EFF**	EPA 8260	JAS, JHC	42	PASI-PA
3019170003	**POST-CARB**	EPA 8260	JAS	42	PASI-PA
3019170004	**TB-01**	EPA 8260	JAS	42	PASI-PA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

Sample: PRE-CARB **Lab ID: 3019170001** Collected: 11/30/09 13:15 Received: 12/01/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**855**	ug/L	400	40		12/03/09 20:12	67-64-1	
Benzene	**25.5**	ug/L	1.0	1		12/02/09 21:21	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/02/09 21:21	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/02/09 21:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/02/09 21:21	74-83-9	
2-Butanone (MEK)	**24.0**	ug/L	10.0	1		12/02/09 21:21	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/02/09 21:21	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/02/09 21:21	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/02/09 21:21	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/02/09 21:21	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/02/09 21:21	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/02/09 21:21	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/02/09 21:21	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 21:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 21:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 21:21	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/02/09 21:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/02/09 21:21	107-06-2	
1,1-Dichloroethene	**21.3**	ug/L	5.0	1		12/02/09 21:21	75-35-4	
cis-1,2-Dichloroethene	**3470**	ug/L	200	40		12/03/09 20:12	156-59-2	
trans-1,2-Dichloroethene	**137**	ug/L	5.0	1		12/02/09 21:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/02/09 21:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/02/09 21:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/02/09 21:21	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/02/09 21:21	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/02/09 21:21	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/02/09 21:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/02/09 21:21	108-10-1	
Styrene	ND	ug/L	5.0	1		12/02/09 21:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/02/09 21:21	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/02/09 21:21	127-18-4	
Toluene	ND	ug/L	5.0	1		12/02/09 21:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/02/09 21:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/02/09 21:21	79-00-5	
Trichloroethene	**1940**	ug/L	200	40		12/03/09 20:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/02/09 21:21	75-69-4	
Vinyl chloride	**284**	ug/L	40.0	40		12/03/09 20:12	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/02/09 21:21	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/02/09 21:21	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		12/02/09 21:21	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		12/02/09 21:21	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		12/02/09 21:21	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

Sample: PRIMARY-EFF **Lab ID: 3019170002** Collected: 11/30/09 13:20 Received: 12/01/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**1300**	ug/L	400	40		12/03/09 20:37	67-64-1	
Benzene	ND	ug/L	1.0	1		12/02/09 21:47	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/02/09 21:47	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/02/09 21:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/02/09 21:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/02/09 21:47	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/02/09 21:47	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/02/09 21:47	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/02/09 21:47	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/02/09 21:47	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/02/09 21:47	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/02/09 21:47	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/02/09 21:47	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 21:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 21:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 21:47	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/02/09 21:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/02/09 21:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/02/09 21:47	75-35-4	
cis-1,2-Dichloroethene	**58.0**	ug/L	5.0	1		12/02/09 21:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/02/09 21:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/02/09 21:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/02/09 21:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/02/09 21:47	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/02/09 21:47	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/02/09 21:47	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/02/09 21:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/02/09 21:47	108-10-1	
Styrene	ND	ug/L	5.0	1		12/02/09 21:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/02/09 21:47	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/02/09 21:47	127-18-4	
Toluene	ND	ug/L	5.0	1		12/02/09 21:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/02/09 21:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/02/09 21:47	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/02/09 21:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/02/09 21:47	75-69-4	
Vinyl chloride	**428**	ug/L	40.0	40		12/03/09 20:37	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/02/09 21:47	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/02/09 21:47	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/02/09 21:47	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		12/02/09 21:47	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		12/02/09 21:47	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

Sample: POST-CARB **Lab ID: 3019170003** Collected: 11/30/09 13:25 Received: 12/01/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**30.3**	ug/L	10.0	1		12/02/09 22:12	67-64-1	
Benzene	ND	ug/L	1.0	1		12/02/09 22:12	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/02/09 22:12	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/02/09 22:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/02/09 22:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/02/09 22:12	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/02/09 22:12	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/02/09 22:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/02/09 22:12	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/02/09 22:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/02/09 22:12	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/02/09 22:12	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/02/09 22:12	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 22:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 22:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 22:12	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/02/09 22:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/02/09 22:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/02/09 22:12	75-35-4	
cis-1,2-Dichloroethene	**349**	ug/L	5.0	1		12/02/09 22:12	156-59-2	
trans-1,2-Dichloroethene	**5.0**	ug/L	5.0	1		12/02/09 22:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/02/09 22:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/02/09 22:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/02/09 22:12	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/02/09 22:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/02/09 22:12	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/02/09 22:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/02/09 22:12	108-10-1	
Styrene	ND	ug/L	5.0	1		12/02/09 22:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/02/09 22:12	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/02/09 22:12	127-18-4	
Toluene	ND	ug/L	5.0	1		12/02/09 22:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/02/09 22:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/02/09 22:12	79-00-5	
Trichloroethene	**14.6**	ug/L	5.0	1		12/02/09 22:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/02/09 22:12	75-69-4	
Vinyl chloride	**7.1**	ug/L	1.0	1		12/02/09 22:12	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/02/09 22:12	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/02/09 22:12	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/02/09 22:12	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		12/02/09 22:12	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		12/02/09 22:12	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

Sample: TB-01 **Lab ID: 3019170004** Collected: 11/30/09 00:00 Received: 12/01/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/02/09 22:37	67-64-1	
Benzene	ND	ug/L	1.0	1		12/02/09 22:37	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/02/09 22:37	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/02/09 22:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/02/09 22:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/02/09 22:37	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/02/09 22:37	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/02/09 22:37	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/02/09 22:37	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/02/09 22:37	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/02/09 22:37	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/02/09 22:37	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/02/09 22:37	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 22:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 22:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 22:37	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/02/09 22:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/02/09 22:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/02/09 22:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/02/09 22:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/02/09 22:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/02/09 22:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/02/09 22:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/02/09 22:37	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/02/09 22:37	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/02/09 22:37	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/02/09 22:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/02/09 22:37	108-10-1	
Styrene	ND	ug/L	5.0	1		12/02/09 22:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/02/09 22:37	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/02/09 22:37	127-18-4	
Toluene	ND	ug/L	5.0	1		12/02/09 22:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/02/09 22:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/02/09 22:37	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/02/09 22:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/02/09 22:37	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		12/02/09 22:37	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/02/09 22:37	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/02/09 22:37	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/02/09 22:37	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		12/02/09 22:37	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		12/02/09 22:37	2037-26-5	

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

QC Batch: MSV/4386 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3019170001, 3019170002, 3019170003, 3019170004

METHOD BLANK: 118929 Matrix: Water
Associated Lab Samples: 3019170001, 3019170002, 3019170003, 3019170004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	12/02/09 15:02	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/02/09 15:02	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/02/09 15:02	
1,1-Dichloroethane	ug/L	ND	5.0	12/02/09 15:02	
1,1-Dichloroethene	ug/L	ND	5.0	12/02/09 15:02	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/02/09 15:02	
1,2-Dichloroethane	ug/L	ND	5.0	12/02/09 15:02	
1,2-Dichloropropane	ug/L	ND	5.0	12/02/09 15:02	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/02/09 15:02	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/02/09 15:02	
2-Butanone (MEK)	ug/L	ND	10.0	12/02/09 15:02	
2-Hexanone	ug/L	ND	10.0	12/02/09 15:02	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/02/09 15:02	
Acetone	ug/L	ND	10.0	12/02/09 15:02	
Benzene	ug/L	ND	1.0	12/02/09 15:02	
Bromodichloromethane	ug/L	ND	5.0	12/02/09 15:02	
Bromoform	ug/L	ND	5.0	12/02/09 15:02	
Bromomethane	ug/L	ND	5.0	12/02/09 15:02	
Carbon disulfide	ug/L	ND	5.0	12/02/09 15:02	
Carbon tetrachloride	ug/L	ND	5.0	12/02/09 15:02	
Chlorobenzene	ug/L	ND	5.0	12/02/09 15:02	
Chloroethane	ug/L	ND	5.0	12/02/09 15:02	
Chloroform	ug/L	ND	5.0	12/02/09 15:02	
Chloromethane	ug/L	ND	5.0	12/02/09 15:02	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/02/09 15:02	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/02/09 15:02	
Dibromochloromethane	ug/L	ND	5.0	12/02/09 15:02	
Ethylbenzene	ug/L	ND	5.0	12/02/09 15:02	
m&p-Xylene	ug/L	ND	5.0	12/02/09 15:02	
Methylene Chloride	ug/L	ND	5.0	12/02/09 15:02	
o-Xylene	ug/L	ND	5.0	12/02/09 15:02	
Styrene	ug/L	ND	5.0	12/02/09 15:02	
Tetrachloroethene	ug/L	ND	5.0	12/02/09 15:02	
Toluene	ug/L	ND	5.0	12/02/09 15:02	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/02/09 15:02	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/02/09 15:02	
Trichloroethene	ug/L	ND	5.0	12/02/09 15:02	
Trichlorofluoromethane	ug/L	ND	5.0	12/02/09 15:02	
Vinyl chloride	ug/L	ND	1.0	12/02/09 15:02	
1,2-Dichloroethane-d4 (S)	%	85	70-130	12/02/09 15:02	
4-Bromofluorobenzene (S)	%	98	70-130	12/02/09 15:02	
Toluene-d8 (S)	%	98	70-130	12/02/09 15:02	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

LABORATORY CONTROL SAMPLE: 118930

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.3	86	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	70-130	
1,1,2-Trichloroethane	ug/L	20	18.2	91	70-130	
1,1-Dichloroethane	ug/L	20	17.7	88	70-130	
1,1-Dichloroethene	ug/L	20	16.7	83	70-130	
1,2-Dichlorobenzene	ug/L	20	21.6	108	70-130	
1,2-Dichloroethane	ug/L	20	17.9	89	70-130	
1,2-Dichloropropane	ug/L	20	17.6	88	70-130	
1,3-Dichlorobenzene	ug/L	20	20.6	103	70-130	
1,4-Dichlorobenzene	ug/L	20	21.2	106	70-130	
2-Butanone (MEK)	ug/L	20	22.6	113	70-130	
2-Hexanone	ug/L	20	23.3	116	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.8	104	70-130	
Acetone	ug/L	20	18.7	93	70-130	
Benzene	ug/L	20	17.6	88	70-130	
Bromodichloromethane	ug/L	20	15.5	78	70-130	
Bromoform	ug/L	20	14.6	73	70-130	
Bromomethane	ug/L	20	24.2	121	70-130	
Carbon disulfide	ug/L	20	21.0	105	70-130	
Carbon tetrachloride	ug/L	20	16.0	80	70-130	
Chlorobenzene	ug/L	20	17.9	90	70-130	
Chloroethane	ug/L	20	14.9	75	70-130	
Chloroform	ug/L	20	17.5	88	70-130	
Chloromethane	ug/L	20	15.5	78	70-130	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	70-130	
cis-1,3-Dichloropropene	ug/L	20	16.2	81	70-130	
Dibromochloromethane	ug/L	20	15.1	75	70-130	
Ethylbenzene	ug/L	20	18.2	91	70-130	
m&p-Xylene	ug/L	40	38.2	95	70-130	
Methylene Chloride	ug/L	20	14.1	71	70-130	
o-Xylene	ug/L	20	18.3	91	70-130	
Styrene	ug/L	20	18.3	92	70-130	
Tetrachloroethene	ug/L	20	17.9	89	70-130	
Toluene	ug/L	20	18.3	92	70-130	
trans-1,2-Dichloroethene	ug/L	20	13.0	65	70-130	L2
trans-1,3-Dichloropropene	ug/L	20	16.1	80	70-130	
Trichloroethene	ug/L	20	18.6	93	70-130	
Trichlorofluoromethane	ug/L	20	14.1	71	70-130	
Vinyl chloride	ug/L	20	16.5	83	70-130	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			91	70-130	

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 118931 118932

Parameter	Units	3019182005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	12.3	11.7	62	59	70-130	5	M0
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.5	18.5	82	93	70-130	12	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.1	17.1	81	86	70-130	6	
1,1-Dichloroethane	ug/L	ND	20	20	13.7	13.5	68	68	70-130	1	M0
1,1-Dichloroethene	ug/L	ND	20	20	12.8	12.0	64	60	70-130	6	M0
1,2-Dichlorobenzene	ug/L	ND	20	20	15.9	15.6	79	78	70-130	2	
1,2-Dichloroethane	ug/L	ND	20	20	14.2	14.9	71	75	70-130	5	
1,2-Dichloropropane	ug/L	ND	20	20	15.2	14.9	76	75	70-130	2	
1,3-Dichlorobenzene	ug/L	ND	20	20	14.6	14.1	73	71	70-130	3	
1,4-Dichlorobenzene	ug/L	ND	20	20	15.0	14.8	75	74	70-130	2	
2-Butanone (MEK)	ug/L	ND	20	20	17.1	18.2	85	91	70-130	6	
2-Hexanone	ug/L	ND	20	20	18.5	21.7	92	109	70-130	16	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	17.9	21.1	89	106	70-130	17	
Acetone	ug/L	ND	20	20	16.2	14.6	81	73	70-130	11	
Benzene	ug/L	ND	20	20	15.0	14.9	75	74	70-130	.9	
Bromodichloromethane	ug/L	ND	20	20	12.2	13.1	61	65	70-130	7	M0
Bromoform	ug/L	ND	20	20	12.7	13.7	63	69	70-130	8	M0
Bromomethane	ug/L	ND	20	20	13.1	14.2	65	71	70-130	8	M0
Carbon disulfide	ug/L	ND	20	20	17.0	13.5	85	67	70-130	23	M0
Carbon tetrachloride	ug/L	ND	20	20	11.2	11.0	56	55	70-130	2	M0
Chlorobenzene	ug/L	ND	20	20	14.9	14.6	74	73	70-130	2	
Chloroethane	ug/L	ND	20	20	11.0	13.6	55	68	70-130	21	M0
Chloroform	ug/L	ND	20	20	14.1	13.8	70	69	70-130	1	M0
Chloromethane	ug/L	ND	20	20	13.3	14.3	66	71	70-130	7	M0
cis-1,2-Dichloroethene	ug/L	ND	20	20	14.0	14.2	70	71	70-130	1	
cis-1,3-Dichloropropene	ug/L	ND	20	20	12.7	13.3	64	67	70-130	5	M0
Dibromochloromethane	ug/L	ND	20	20	12.2	12.9	61	64	70-130	5	M0
Ethylbenzene	ug/L	ND	20	20	14.8	14.0	74	70	70-130	5	
m&p-Xylene	ug/L	ND	40	40	30.6	28.4	77	71	70-130	8	
Methylene Chloride	ug/L	ND	20	20	11.7	11.4	59	57	70-130	2	M0
o-Xylene	ug/L	ND	20	20	15.3	14.5	76	73	70-130	5	
Styrene	ug/L	ND	20	20	15.1	14.7	75	74	70-130	2	
Tetrachloroethene	ug/L	ND	20	20	13.2	12.7	66	64	70-130	3	M0
Toluene	ug/L	ND	20	20	14.9	14.6	74	73	70-130	2	
trans-1,2-Dichloroethene	ug/L	ND	20	20	13.5	12.7	67	63	70-130	6	M0
trans-1,3-Dichloropropene	ug/L	ND	20	20	12.6	13.5	63	68	70-130	7	M0
Trichloroethene	ug/L	ND	20	20	13.6	13.3	68	67	70-130	2	M0
Trichlorofluoromethane	ug/L	ND	20	20	9.8	13.4	49	67	70-130	31	M0,R1
Vinyl chloride	ug/L	ND	20	20	15.1	16.2	75	81	70-130	7	
1,2-Dichloroethane-d4 (S)	%						87	87	70-130		
4-Bromofluorobenzene (S)	%						94	98	70-130		
Toluene-d8 (S)	%						98	98	70-130		

Pace Analytical Services, Inc.
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Greensburg, PA 15601
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QUALIFIERS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3019170001	**PRE-CARB**	EPA 8260	MSV/4386		
3019170002	**PRIMARY-EFF**	EPA 8260	MSV/4386		
3019170003	**POST-CARB**	EPA 8260	MSV/4386		
3019170004	**TB-01**	EPA 8260	MSV/4386		

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1295666

Section A Required Client Information:

Company: URS CORP
Address: FOSTER PLAZA 4, STE. 700 501 HOLIDAY DR PGH, PA 15220
Email To:
Phone: 412-503-4700 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41568453
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41568453.10000

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: NY

Section D Required Client Information

Matrix Codes (MATRIX / CODE)

Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Tissue	TS
Other	OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	WT	G			11/30/09	1315		3				X					Y	X		001
2	PRIMARY-EFF						1320		3				X						X		002
3	POST-CARB						1325		3				X						X		003
4	POST-CARB						1355		3				X						X		
5	POST-CARB						1425		3				X						X		
6	POST-CARB						1455		3				X						X		
7	TB-01	WT	G			11/30/09	—		2				X						X		004
8																					
9																					
10																					
11																					
12																					

3019170

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COMPOSITE FOUR (4)	Valerie Sibeto URS	11/30/09	1530	Fed Ex	11/30/09	1530				
POST-CARB SAMPLES IN	Fed Ex			C. Urbanowicz Pace	12/1/09	1030	5.1	Y	N	Y
LAB AND REPORT AS										
POST-CARB COMPOSITE										

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: Valerie Sibeto DATE Signed (MM/DD/YY): 11/30/09

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 3019170

Courier: (Fed Ex) ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes (no) Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: (Bubble Wrap) ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 3 (4) Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 5.1 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 12/1/09

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	(Yes) ☐No ☐N/A	1.
Chain of Custody Filled Out:	(Yes) ☐No ☐N/A	2.
Chain of Custody Relinquished:	(Yes) ☐No ☐N/A	3.
Sampler Name & Signature on COC:	(Yes) ☐No ☐N/A	4.
Samples Arrived within Hold Time:	(Yes) ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes (No) ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes (No) ☐N/A	7.
Sufficient Volume:	(Yes) ☐No ☐N/A	8.
Correct Containers Used:	(Yes) ☐No ☐N/A	9.
-Pace Containers Used:	(Yes) ☐No ☐N/A	
Containers Intact:	(Yes) ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes (No) ☐N/A	11.
Sample Labels match COC:	(Yes) ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	(Yes) ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	(Yes) ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	(Yes) ☐No	Initial when completed: _____ Lot # of added preservative:
Samples checked for dechlorination:	☐Yes ☐No (N/A)	14.
Headspace in VOA Vials (>6mm):	☐Yes (No) ☐N/A	15.
Trip Blank Present:	(Yes) ☐No ☐N/A	16.
Trip Blank Custody Seals Present	(Yes) ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Raelyn Sylvester **Date:** 12/1/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

December 30, 2009

Mr. Mark Dowiak
URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

RE: Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on December 23, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4 Greensburg, PA 15601
Wyoming Certification #: 8TMS-Q
Wisconsin/PADEP Certification
West Virginia Certification #: 143
Washington Certification #: C1941
Virginia Certification #: 00112
Virgin Island/PADEP Certification
Utah/NELAC Certification #: ANTE
Texas/NELAC Certification #: T104704188-09 TX
Tennessee Certification #: TN2867
South Dakota Certification
Puerto Rico Certification #: PA01457
Pennsylvania/NELAC Certification #: 65-282
Oregon/NELAC Certification #: PA200002
North Carolina Certification #: 42706
New York/NELAC Certification #: 10888
New Mexico Certification
New Jersey/NELAC Certification #: PA 051
New Hampshire/NELAC Certification #: 2976
Nevada Certification
Montana Certification #: Cert 0082
Missouri Certification #: 235
Minnesota Certification #: 042-999-425
Michigan/PADEP Certification
Massachusetts Certification #: M-PA1457
Maryland Certification #: 308
Maine Certification #: PA0091
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Kentucky Certification #: 90133
Kansas/NELAC Certification #: E-10358
Iowa Certification #: 391
Indiana/PADEP Certification
Illinois/PADEP Certification
Idaho Certification
Hawaii/PADEP Certification
Guam/PADEP Certification
Georgia Certification #: 968
Florida/NELAC Certification #: E87683
Delaware Certification
Connecticut Certification #: PH 0694
Colorado Certification
California/NELAC Certification #: 04222CA
Arkansas Certification
Arizona Certification #: AZ0734
Alabama Certification #: 41590

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(724)850-5600

SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3020335001	**PRE-CARB**	EPA 8260	JAS	42	PASI-PA
3020335002	**PRIMARY-EFF**	EPA 8260	JAS	42	PASI-PA
3020335003	**POST-CARB**	EPA 8260	JAS	42	PASI-PA
3020335004	**TB-01**	EPA 8260	JAS	42	PASI-PA

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

Sample: PRE-CARB **Lab ID: 3020335001** Collected: 12/22/09 11:10 Received: 12/23/09 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/28/09 19:20	67-64-1	
Benzene	**3.9**	ug/L	1.0	1		12/28/09 19:20	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/28/09 19:20	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/28/09 19:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/28/09 19:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/28/09 19:20	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/28/09 19:20	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/28/09 19:20	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/28/09 19:20	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/28/09 19:20	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/28/09 19:20	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/28/09 19:20	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/28/09 19:20	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 19:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 19:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 19:20	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/28/09 19:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/28/09 19:20	107-06-2	
1,1-Dichloroethene	**11.5**	ug/L	5.0	1		12/28/09 19:20	75-35-4	
cis-1,2-Dichloroethene	**1820**	ug/L	200	40		12/28/09 19:47	156-59-2	
trans-1,2-Dichloroethene	**25.3**	ug/L	5.0	1		12/28/09 19:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/28/09 19:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/28/09 19:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/28/09 19:20	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/28/09 19:20	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/28/09 19:20	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/28/09 19:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/28/09 19:20	108-10-1	
Styrene	ND	ug/L	5.0	1		12/28/09 19:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/28/09 19:20	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/28/09 19:20	127-18-4	
Toluene	ND	ug/L	5.0	1		12/28/09 19:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/28/09 19:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/28/09 19:20	79-00-5	
Trichloroethene	**1080**	ug/L	200	40		12/28/09 19:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/28/09 19:20	75-69-4	
Vinyl chloride	**348**	ug/L	1.0	1		12/28/09 19:20	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/28/09 19:20	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/28/09 19:20	95-47-6	
4-Bromofluorobenzene (S)	93	%	70-130	1		12/28/09 19:20	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	70-130	1		12/28/09 19:20	17060-07-0	
Toluene-d8 (S)	85	%	70-130	1		12/28/09 19:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

Sample: PRIMARY-EFF **Lab ID: 3020335002** Collected: 12/22/09 11:15 Received: 12/23/09 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**2030**	ug/L	400	40		12/28/09 20:40	67-64-1	
Benzene	ND	ug/L	1.0	1		12/28/09 20:13	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/28/09 20:13	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/28/09 20:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/28/09 20:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/28/09 20:13	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/28/09 20:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/28/09 20:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/28/09 20:13	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/28/09 20:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/28/09 20:13	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/28/09 20:13	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/28/09 20:13	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 20:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 20:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 20:13	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/28/09 20:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/28/09 20:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/28/09 20:13	75-35-4	
cis-1,2-Dichloroethene	**64.9**	ug/L	5.0	1		12/28/09 20:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/28/09 20:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/28/09 20:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/28/09 20:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/28/09 20:13	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/28/09 20:13	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/28/09 20:13	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/28/09 20:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/28/09 20:13	108-10-1	
Styrene	ND	ug/L	5.0	1		12/28/09 20:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/28/09 20:13	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/28/09 20:13	127-18-4	
Toluene	ND	ug/L	5.0	1		12/28/09 20:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/28/09 20:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/28/09 20:13	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/28/09 20:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/28/09 20:13	75-69-4	
Vinyl chloride	**778**	ug/L	40.0	40		12/28/09 20:40	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/28/09 20:13	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/28/09 20:13	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		12/28/09 20:13	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		12/28/09 20:13	17060-07-0	
Toluene-d8 (S)	87	%	70-130	1		12/28/09 20:13	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

Sample: POST-CARB **Lab ID: 3020335003** Collected: 12/22/09 12:50 Received: 12/23/09 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**31.4**	ug/L	10.0	1		12/28/09 21:06	67-64-1	
Benzene	ND	ug/L	1.0	1		12/28/09 21:06	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/28/09 21:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/28/09 21:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/28/09 21:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/28/09 21:06	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/28/09 21:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/28/09 21:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/28/09 21:06	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/28/09 21:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/28/09 21:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/28/09 21:06	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/28/09 21:06	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 21:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 21:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 21:06	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/28/09 21:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/28/09 21:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/28/09 21:06	75-35-4	
cis-1,2-Dichloroethene	**244**	ug/L	5.0	1		12/28/09 21:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/28/09 21:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/28/09 21:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/28/09 21:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/28/09 21:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/28/09 21:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/28/09 21:06	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/28/09 21:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/28/09 21:06	108-10-1	
Styrene	ND	ug/L	5.0	1		12/28/09 21:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/28/09 21:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/28/09 21:06	127-18-4	
Toluene	ND	ug/L	5.0	1		12/28/09 21:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/28/09 21:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/28/09 21:06	79-00-5	
Trichloroethene	**10.0**	ug/L	5.0	1		12/28/09 21:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/28/09 21:06	75-69-4	
Vinyl chloride	**6.8**	ug/L	1.0	1		12/28/09 21:06	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/28/09 21:06	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/28/09 21:06	95-47-6	
4-Bromofluorobenzene (S)	94	%	70-130	1		12/28/09 21:06	460-00-4	
1,2-Dichloroethane-d4 (S)	81	%	70-130	1		12/28/09 21:06	17060-07-0	
Toluene-d8 (S)	89	%	70-130	1		12/28/09 21:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

Sample: TB-01 **Lab ID: 3020335004** Collected: 12/22/09 00:00 Received: 12/23/09 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/28/09 18:54	67-64-1	
Benzene	ND	ug/L	1.0	1		12/28/09 18:54	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/28/09 18:54	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/28/09 18:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/28/09 18:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/28/09 18:54	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/28/09 18:54	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/28/09 18:54	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/28/09 18:54	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/28/09 18:54	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/28/09 18:54	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/28/09 18:54	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/28/09 18:54	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 18:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 18:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 18:54	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/28/09 18:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/28/09 18:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/28/09 18:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/28/09 18:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/28/09 18:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/28/09 18:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/28/09 18:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/28/09 18:54	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/28/09 18:54	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/28/09 18:54	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/28/09 18:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/28/09 18:54	108-10-1	
Styrene	ND	ug/L	5.0	1		12/28/09 18:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/28/09 18:54	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/28/09 18:54	127-18-4	
Toluene	ND	ug/L	5.0	1		12/28/09 18:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/28/09 18:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/28/09 18:54	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/28/09 18:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/28/09 18:54	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		12/28/09 18:54	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/28/09 18:54	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/28/09 18:54	95-47-6	
4-Bromofluorobenzene (S)	92	%	70-130	1		12/28/09 18:54	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		12/28/09 18:54	17060-07-0	
Toluene-d8 (S)	91	%	70-130	1		12/28/09 18:54	2037-26-5	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

QC Batch: MSV/4687 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3020335001, 3020335002, 3020335003, 3020335004

METHOD BLANK: 127342 Matrix: Water
Associated Lab Samples: 3020335001, 3020335002, 3020335003, 3020335004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	12/28/09 14:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/28/09 14:31	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/28/09 14:31	
1,1-Dichloroethane	ug/L	ND	5.0	12/28/09 14:31	
1,1-Dichloroethene	ug/L	ND	5.0	12/28/09 14:31	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/28/09 14:31	
1,2-Dichloroethane	ug/L	ND	5.0	12/28/09 14:31	
1,2-Dichloropropane	ug/L	ND	5.0	12/28/09 14:31	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/28/09 14:31	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/28/09 14:31	
2-Butanone (MEK)	ug/L	ND	10.0	12/28/09 14:31	
2-Hexanone	ug/L	ND	10.0	12/28/09 14:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/28/09 14:31	
Acetone	ug/L	ND	10.0	12/28/09 14:31	
Benzene	ug/L	ND	1.0	12/28/09 14:31	
Bromodichloromethane	ug/L	ND	5.0	12/28/09 14:31	
Bromoform	ug/L	ND	5.0	12/28/09 14:31	
Bromomethane	ug/L	ND	5.0	12/28/09 14:31	
Carbon disulfide	ug/L	ND	5.0	12/28/09 14:31	
Carbon tetrachloride	ug/L	ND	5.0	12/28/09 14:31	
Chlorobenzene	ug/L	ND	5.0	12/28/09 14:31	
Chloroethane	ug/L	ND	5.0	12/28/09 14:31	
Chloroform	ug/L	ND	5.0	12/28/09 14:31	
Chloromethane	ug/L	ND	5.0	12/28/09 14:31	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/28/09 14:31	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/28/09 14:31	
Dibromochloromethane	ug/L	ND	5.0	12/28/09 14:31	
Ethylbenzene	ug/L	ND	5.0	12/28/09 14:31	
m&p-Xylene	ug/L	ND	5.0	12/28/09 14:31	
Methylene Chloride	ug/L	ND	5.0	12/28/09 14:31	
o-Xylene	ug/L	ND	5.0	12/28/09 14:31	
Styrene	ug/L	ND	5.0	12/28/09 14:31	
Tetrachloroethene	ug/L	ND	5.0	12/28/09 14:31	
Toluene	ug/L	ND	5.0	12/28/09 14:31	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/28/09 14:31	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/28/09 14:31	
Trichloroethene	ug/L	ND	5.0	12/28/09 14:31	
Trichlorofluoromethane	ug/L	ND	5.0	12/28/09 14:31	
Vinyl chloride	ug/L	ND	1.0	12/28/09 14:31	
1,2-Dichloroethane-d4 (S)	%	83	70-130	12/28/09 14:31	
4-Bromofluorobenzene (S)	%	97	70-130	12/28/09 14:31	
Toluene-d8 (S)	%	90	70-130	12/28/09 14:31	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

LABORATORY CONTROL SAMPLE: 127343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	16.1	81	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	16.3	81	70-130	
1,1,2-Trichloroethane	ug/L	20	17.9	89	70-130	
1,1-Dichloroethane	ug/L	20	16.2	81	70-130	
1,1-Dichloroethene	ug/L	20	19.0	95	70-130	
1,2-Dichlorobenzene	ug/L	20	19.6	98	70-130	
1,2-Dichloroethane	ug/L	20	16.5	82	70-130	
1,2-Dichloropropane	ug/L	20	16.9	85	70-130	
1,3-Dichlorobenzene	ug/L	20	19.2	96	70-130	
1,4-Dichlorobenzene	ug/L	20	19.4	97	70-130	
2-Butanone (MEK)	ug/L	20	12.0	60	70-130	L0
2-Hexanone	ug/L	20	14.8	74	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	14.8	74	70-130	
Acetone	ug/L	20	14.1	71	70-130	
Benzene	ug/L	20	17.7	89	70-130	
Bromodichloromethane	ug/L	20	17.1	86	70-130	
Bromoform	ug/L	20	16.9	84	70-130	
Bromomethane	ug/L	20	31.3	157	70-130	L0
Carbon disulfide	ug/L	20	24.5	122	70-130	
Carbon tetrachloride	ug/L	20	15.4	77	70-130	
Chlorobenzene	ug/L	20	18.7	93	70-130	
Chloroethane	ug/L	20	14.5	72	70-130	
Chloroform	ug/L	20	17.2	86	70-130	
Chloromethane	ug/L	20	16.5	82	70-130	
cis-1,2-Dichloroethene	ug/L	20	16.1	80	70-130	
cis-1,3-Dichloropropene	ug/L	20	15.6	78	70-130	
Dibromochloromethane	ug/L	20	16.9	85	70-130	
Ethylbenzene	ug/L	20	18.7	94	70-130	
m&p-Xylene	ug/L	40	38.3	96	70-130	
Methylene Chloride	ug/L	20	18.1	91	70-130	
o-Xylene	ug/L	20	18.9	95	70-130	
Styrene	ug/L	20	18.6	93	70-130	
Tetrachloroethene	ug/L	20	19.8	99	70-130	
Toluene	ug/L	20	18.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.8	84	70-130	
trans-1,3-Dichloropropene	ug/L	20	14.1	71	70-130	
Trichloroethene	ug/L	20	18.7	94	70-130	
Trichlorofluoromethane	ug/L	20	13.9	69	70-130	L0
Vinyl chloride	ug/L	20	17.8	89	70-130	
1,2-Dichloroethane-d4 (S)	%			86	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			90	70-130	

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3020335001	**PRE-CARB**	EPA 8260	MSV/4687		
3020335002	**PRIMARY-EFF**	EPA 8260	MSV/4687		
3020335003	**POST-CARB**	EPA 8260	MSV/4687		
3020335004	**TB-01**	EPA 8260	MSV/4687		

Pace Analytical®
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

1355744

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: URS CORP	Report To: MARK DOWIAK	Attention:
Address: 501 HOLIDAY DR. FOSTER PLAZA 4, STE 300	Copy To: VALERIE SIBETO	Company Name:
PGH, PA 15220		Address:
Email To:	Purchase Order No.: 41568453	Pace Quote Reference:
Phone: 412-503-4700 Fax: 412-503-4701	Project Name: ESSEX/HOPE JAMESTOWN	Pace Project Manager:
Requested Due Date/TAT: STANDARD	Project Number: 41568453.10000	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER ______

Site Location STATE: NY

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	TIME	Composite End/Grab DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 3020335
1	PRE-CARB	WT	G			12.22.09	1110		3				X						X		001
2	PRIMARY-EFF						1115		3				X						X		002
3	POST-CARB						1120		3				X						X		003
4	POST-CARB						1150		3				X						X		
5	POST-CARB						1220		3				X						X		
6	POST-CARB						1250		3				X						X		
7	TB-01	WT	G			12.22.09			2				X						X		004
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COMPOSITE FOUR(4) POST-CARB	[signature] / URS	12.22.09	1320	Fed Ex	12.22.09	1320				
SAMPLES IN LAB AND	Fed Ex -			C Urbanowitz / Pace	12-23-09	1240	1.6	Y	N	Y
REPORT AS POST-CARB										
COMPOSITE										

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12.22.09

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 30203355

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

Thermometer Used 3 4 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Cooler Temperature 1.6 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 12-23

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☑No ☐N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	Initial when completed: Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Raelyn Sproston **Date:** 12/23/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)