



March 28, 2011

Mr. Maurice Moore
Division of Hazardous Waste Management
New York State Department of Environmental Protection
270 Michigan Avenue
Buffalo, NY 14203-2999

**Subject: 2010 Annual Performance Monitoring Report
Essex/Hope Site
Jamestown, New York
URS Project No. 41568904**

Dear Mr. Moore:

Enclosed please find the 2010 Annual Performance Monitoring Report for the above referenced project. Should you have any questions or desire additional information, please contact me at (412) 503-4670 or Mark Dowiak at (412) 503-4672.

Sincerely,

A handwritten signature in blue ink, reading "Valerie Sibeto", is written over the typed name.

URS

Valerie Sibeto
Site O&M Manager
URS Dow Business Unit
(412) 503-4670

Enclosure

cc: Tim King – Dow Chemical Corporation
Matt Forcucci – NY State Dept. of Health
James Charles, Esq. – Div. of Environmental Enforcement
Carlo J. Montisano – Custom Production MFG., Inc.
Mark Dowiak, P.E. - URS Corporation

URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220
Tel: 412.503.4700
Fax: 412.503.4704
www.urscorp.com

**2010 Annual
Performance
Monitoring Report
Essex/Hope Site
Jamestown, New York**

March 2011 - Final

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

URS Project No. 41568904



2010 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

URS Project No. 41568904

March 2011

TABLE OF CONTENTS

1.0	INTRODUCTION	1-1
1.1	REMEDIAL SYSTEMS OVERVIEW	1-1
1.2	SUPPLEMENTAL REMEDIAL ACTIVITIES	1-2
1.3	MAJOR SYSTEM MODIFICATIONS	1-4
1.4	PERFORMANCE CRITERIA.....	1-5
2.0	GROUNDWATER FLOW EVALUATION	2-1
2.1	GROUNDWATER EXTRACTION SYSTEM OPERATION AND MAINTENANCE	2-1
2.2	ANNUAL GROUNDWATER EXTRACTION	2-1
2.3	GROUNDWATER FLOW CONDITIONS	2-2
3.0	WATER QUALITY RESULTS AND SUMMARY.....	3-1
3.1	NORTH PARKING LOT (NPL)/NORTHEAST SITE AREA.....	3-1
3.2	AST/UST AREA.....	3-1
3.3	UST AREA.....	3-1
3.4	GROUNDWATER TREATMENT SYSTEM	3-1
4.0	FUTURE PLANS.....	4-1

List of Appendices

A	GROUNDWATER EXTRACTION MONITORING DATA
A-1	2010 WATER LEVEL DATA
A-2	2010 GROUNDWATER EXTRACTION SYSTEM MONITORING DATA
A-3	GROUNDWATER EXTRACTION PERFORMANCE DATA
B	LABORATORY ANALYTICAL DATA
B-1	2010 SEMI-ANNUAL RECOVERY WELL DATA
B-2	2010 ANNUAL PMP MONITORING WELL DATA
B-3	2010 MONTHLY POTW INFLUENT/EFFLUENT SAMPLE DATA

List of Tables

- 1 ESSEX/HOPE SOIL AND GROUNDWATER REMEDIAL ACTION OBJECTIVES (RAOs)
- 2 2010 GROUNDWATER EXTRACTION SUMMARY
- 3 2010 RECOVERY WELL ANALYTICAL RESULTS
- 4 MONITORING WELL ANALYTICAL RESULTS, SEPTEMBER 2010
- 5 PRE-CARBON INFLUENT ANALYTICAL RESULTS, POTW MONTHLY MONITORING SUMMARY
- 6 PRIMARY CARBON EFFLUENT ANALYTICAL RESULTS, POTW MONTHLY MONITORING SUMMARY
- 7 POST CARBON EFFLUENT ANALYTICAL RESULTS, POTW MONTHLY MONITORING SUMMARY

List of Figures

- 1 SITE LOCATION MAP
- 2 EXISTING SITE PLAN
- 3 SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE MAP, MARCH 24, 2010
- 4 DEEP GROUNDWATER POTENTIOMETRIC SURFACE MAP, MARCH 24, 2010
- 5 SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE MAP, JUNE 29, 2010
- 6 DEEP GROUNDWATER POTENTIOMETRIC SURFACE MAP, JUNE 29, 2010
- 7 SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE MAP, SEPTEMBER 30, 2010
- 8 DEEP GROUNDWATER POTENTIOMETRIC SURFACE MAP, SEPTEMBER 30, 2010

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, 2011. This report summarizes the operations and performance monitoring of the site remedial systems for the calendar year of 2010. 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.
- VOCs in the UST Area shallow groundwater and other offsite shallow and deep groundwater zones are currently being evaluated for insitu treatment technologies. A chemical oxidation treatability study was completed for UST Area soils and groundwater in 2010. A Remedial Action Work Plan for insitu chemical oxidation of the UST Area is being prepared and implementation of continued Phase II remedial actions are planned to commence in 2011.

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. As previously stated, 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 2010 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 2010.

2.0 Groundwater Flow Evaluation

This section presents a summary of the 2010 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 March 22, 2010 and March 24, 2010, and between November 21, 2010 and November 23, 2010 for carbon changeout.
- Recovery Wells were offline periodically between July 12, 2010 and July 15, 2010, and between July 26, 2010 and July 28, 2010 for well development activities, RW-2D acid treatment, and carbon changeout.
- Recovery Well RW-6D experienced various periods of shutdown due to silt accumulation in the well and a frozen line resulting from an insulation thermostat malfunction.

2.2 Annual Groundwater Extraction

Groundwater pumping volumes are provided in Table 2. In 2010, over 1.83 million gallons of groundwater were extracted and treated by the recovery system. Approximately 1.41 million gallons of groundwater were extracted from the deep groundwater zone (LFSWBZ) and nearly 424,000 gallons of groundwater were extracted from the shallow water-bearing zone. Detailed groundwater extraction monitoring data from each treatment area is provided as Appendix A-2.

2.3 Groundwater Flow Conditions

Groundwater flow conditions in the shallow and deep water-bearing zones at the site for 2010 were a typical reflection of normal site operations. 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 for 2010 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 September 2010)
- 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 2010. 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 2010. 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 0.51 lbs of VOCs from this zone in Year 2010. 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-19D, MW-21D, MW-22D, MW-25D, and VP-6D. Recovery wells RW-2D and RW-6D demonstrated continued efficiency by removing over 134 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 trace VOCs in 2010. 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 2010 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 2011. 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

**2010 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	3,141	108,898	6	390,418	0
2nd Quarter	973	49,641	10	385,775	11,860
3rd Quarter	5,643	81,791	29	384,409	44,681
4th Quarter	16,959	156,713	18	175,785	19,068
Total	26,717	397,042	63	1,336,387	75,609

Period	Site Area		
	NPLS Shallow Area Gallons Pumped	AST Area Gallons Pumped	Lower Fine Sand Water Bearing Zone Gallons Pumped
1st Quarter	112,039	6	390,418
2nd Quarter	50,614	10	397,635
3rd Quarter	87,434	29	429,090
4th Quarter	173,672	18	194,853
Total	423,758	63	1,411,996

Period	Total Estimated Gallons Pumped - All Areas
1st Quarter	502,463
2nd Quarter	448,259
3rd Quarter	516,553
4th Quarter	368,542
Total	1,835,817

Table 3

2010 Semi-Annual Recovery Well Analytical Results (mg/L)
Essex/Hope Site
Jamestown, NY

June 24, 2010

Volatile Organic Compounds	Site GW RAOs	RW-1S	RW-2S	RW-2D	RW-6D	RW-3S
Acetone		ND	ND	ND	21,100	ND
Benzene		ND	ND	10.1	82.3	45.1
2-Butanone		ND	ND	ND	ND	ND
Carbon Disulfide		ND	ND	ND	ND	ND
Chloromethane		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	25.4	48.1	ND
cis-1,2-Dichloroethene		180	10.4	4,120	16,900	6.9
trans-1,2-Dichloroethene	5	ND	ND	40.6	85.6	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	160	10.4	2,450	3,090	18.8
Vinyl Chloride	5	3.3	ND	591	1,060	ND
Xylenes (total)	5	ND	ND	ND	ND	ND

December 21, 2010

Volatile Organic Compounds	Site GW RAOs	RW-1S	RW-2S	RW-2D	RW-6D*	RW-3S
Acetone		ND	ND	ND	32,500	ND
Benzene		ND	ND	9.2	98.1	61.7
2-Butanone		ND	ND	ND	230	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		8.2	ND	22	68.2	ND
cis-1,2-Dichloroethene		1,010	6.5	6,210	22,500	ND
trans-1,2-Dichloroethene	5	6.3	ND	89.7	272	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	801	6.3	2,350	1,530	ND
Vinyl Chloride	5	99.7	ND	886	1,630	ND
Xylenes (total)	5	ND	ND	ND	ND	ND

* RW-6D sample was collected on January 6, 2011.

Notes:

Site GW RAOs = Site Groundwater Remedial Action Objectives

µg/l = Micrograms per liter

ND = Not Detected/Below minimum laboratory reporting limit

Table 4

**2010 Annual PMP Wells Analytical Results (mg/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-19D	MW-20	MW-21D	MW-22D	MW-25D	MW-25S	VP-6D
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,160	ND	10,400	ND	ND	ND	ND
Benzene	ND	ND	10.6	ND	ND	ND	ND	2.6	ND	ND	ND	94.2	2.0	ND	ND	ND
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	251	ND	ND	ND	ND
Isopropylbenzene (Cumene)	ND	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	ND
1,1-Dichloroethene	ND	ND	30.1	ND	ND	ND	11.6	111	ND	ND	ND	751	8.0	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	3,720	8.7	94.3	ND	917	23,700	9.0	ND	ND	278,000	863	ND	39.8	ND
trans-1,2-Dichloroethene	ND	ND	48	ND	ND	ND	13.7	ND	ND	ND	ND	749	5.8	ND	ND	ND
Ethylbenzene	ND	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	ND	10.5	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	41	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	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	ND
Trichloroethene	ND	ND	349	7.0	ND	ND	826	15,200	24.4	6.2	ND	166,000	5,090	ND	258	ND
Vinyl Chloride	ND	ND	359	ND	12.7	5.8	39.7	716	ND	37.2	ND	23,100	21.6	ND	ND	ND
Xylenes (total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10.5	ND	ND	ND	ND

ND = Not detected
µg/L = Micrograms per liter

Table 5
POTW Monthly Monitoring Summary
2010 System Pre-Carbon
Volatile Organic Compounds (mg/L)

Sample Date	19-Jan-10	28-Feb-10	31-Mar-10	30-Apr-10	27-May-10	24-Jun-10	28-Jul-10	31-Aug-10	27-Sep-10	18-Oct-10	29-Nov-10	16-Dec-10
Acetone	128	ND	ND	ND	1,540	4,350	2,370	4,280	1,110	3,340	2,060	ND
Benzene	10.2	8.3	5.9	6.1	12.7	17.8	11.0	23.7	14.3	13.7	9.9	3.8
2-Butanone	ND	ND	ND	ND	10	16.9	ND	36.8	11.2	ND	16.8	ND
Carbon Disulfide	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	18.8	17.8	13.8	12.5	19.8	31.1	14.9	17.8	18.0	22.0	8.5	11.4
cis-1,2-Dichloroethene	5,980	4,310	3,380	3,670	4,530	6,990	4,240	7,420	6,090	6,690	2,940	3,000
trans-1,2-Dichloroethene	65.1	54.3	26.9	24.8	26.7	74.7	33.6	558	121	47.2	38.0	27.5
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	2,160	2,560	1,720	1,760	2,610	2,670	1,260	468	2,080	1,110	399	1,160
Vinyl Chloride	586	572	525	543	661	796	410	685	628	854	276	430
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pre-Carbon TOTAL VOCs	8,948	7,522	5,672	6,016	9,410	14,947	8,340	13,489	10,073	12,077	5,748	4,633

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 March 23, 2010, July 13, 2010, and November 22, 2010.

Table 6
POTW Monthly Monitoring Summary
2010 System Primary Carbon Effluent
Volatile Organic Compounds (mg/L)

Sample Date	19-Jan-10	28-Feb-10	31-Mar-10	30-Apr-10	27-May-10	24-Jun-10	28-Jul-10	31-Aug-10	27-Sep-10	18-Oct-10	29-Nov-10	16-Dec-10
Acetone	ND	ND	ND	ND	951	3,820	954	335	224	72.0	47.4	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.4	ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	8.1	ND	ND	ND	ND	ND	ND	ND	7.2	ND	ND
cis-1,2-Dichloroethene	1,140	3,730	157	68.6	90.9	1,980	25.8	230	2,530	3,890	143	85.0
trans-1,2-Dichloroethene	ND	19.8	ND	ND	ND	ND	ND	ND	16.5	20.2	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	16.7	105	ND	ND	ND	32.9	ND	5.4	109	34.4	ND	ND
Vinyl Chloride	725	701	22.9	465	727	1,080	870	1,350	845	692	4.9	2.1
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Primary-Carbon TOTAL VOCs	1,882	4,564	180	534	1,769	6,913	1,850	1,920	3,725	4,721	195	87

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 March 23, 2010, July 13, 2010, and November 22, 2010.

Table 7
POTW Monthly Monitoring Summary
2010 System Post Carbon Effluent
Volatile Organic Compounds (mg/L)

Sample Date	19-Jan-10	28-Feb-10	31-Mar-10	30-Apr-10	27-May-10	24-Jun-10	28-Jul-10	31-Aug-10	27-Sep-10	18-Oct-10	29-Nov-10	16-Dec-10
Acetone	ND	ND	ND	ND	56.0	928	42.6	ND	ND	ND	146	ND
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	144	109	19.4	18.1	12.3	16.5	349	225	166	151	29.5	32.3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	6.1	5.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	137	731	22.7	9.7	46.1	463	262	360	895	1,340	15.1	12.7
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Post-Carbon TOTAL VOCs	287	846	42	28	114	1,408	654	585	1,061	1,491	191	45

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)

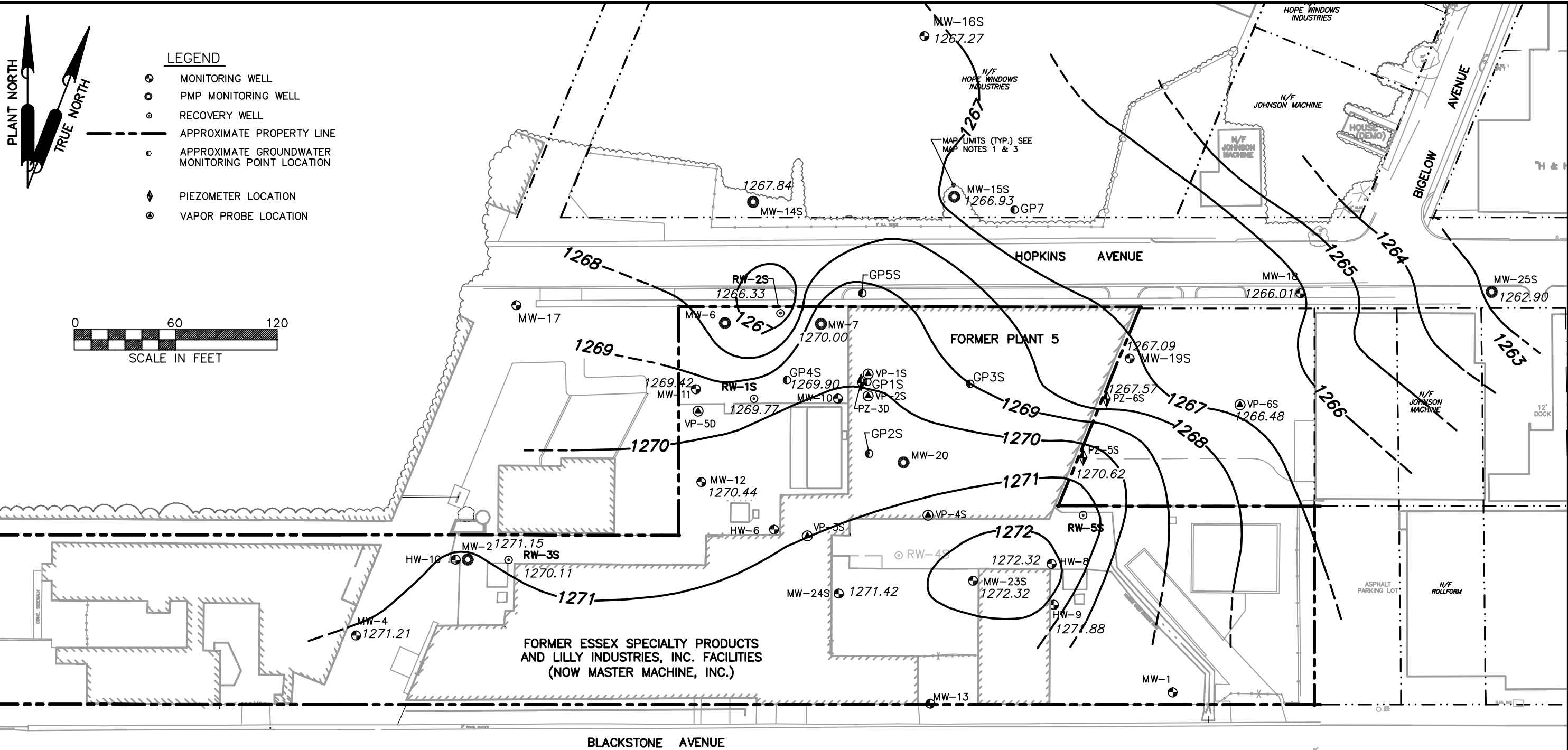
Post-Carbon sample results represent system effluent from the secondary carbon vessel (or the third carbon vessel if used) to the POTW.

Post-Carbon sample is a laboratory prepared composite of four (4) grab samples taken at 30-minute intervals.

System Carbon was changed out on March 23, 2010, July 13, 2010, and November 22, 2010.

FIGURES

00
38
20
45
11
10
KK
GG
FILE: \\ESSEX\\HOP\\2006-MAP\\PMP-2010\\2010-A-JUL-2009-PMP-BASE-MAP



CONFIDENTIAL - ALL RIGHTS RESERVED - PROPERTY OF

URS

PITTSBURGH, PENNSYLVANIA

2010 ANNUAL PERFORMANCE MONITORING REPORT
SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE - MARCH 24, 2010

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

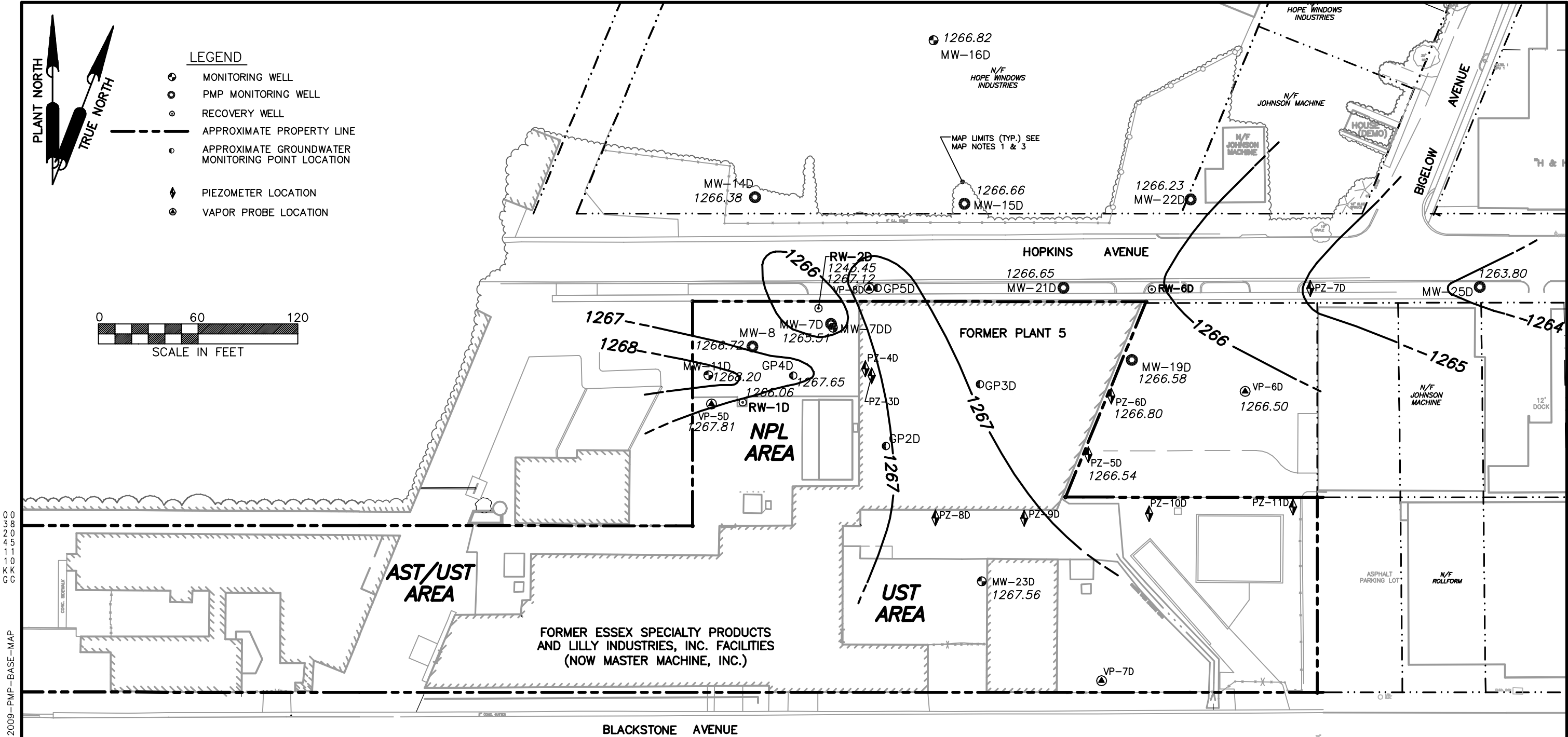
JOB NUMBER: 41568904

SCALE: AS SHOWN

FIGURE
NUMBER

3

REV
0



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. RODGERS 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.

3. AREAS OUTSIDE OF CLOUD LINE: PROPERTY LINES AND MAPPING ADJACENT TO BIGELOW AVENUE, NORTH & SOUTH OF HOPKINS AVENUE & EAST OF BIGELOW AVENUE, AND SOUTH OF BLACKSTONE AVENUE WERE TAKEN FROM A VARIETY OF SOURCES INCLUDING SEPIA MYLAR SITE MAP (SEE REFERENCE 1), USGS 7.5 MINUTE TOPOGRAPHIC MAP - JAMESTOWN, NY, CITY OF JAMESTOWN TAX MAP RECORDS, AND URS FIELD RECONNAISSANCE. LOCATIONS AND DIMENSIONS IN THESE AREAS ARE APPROXIMATE.

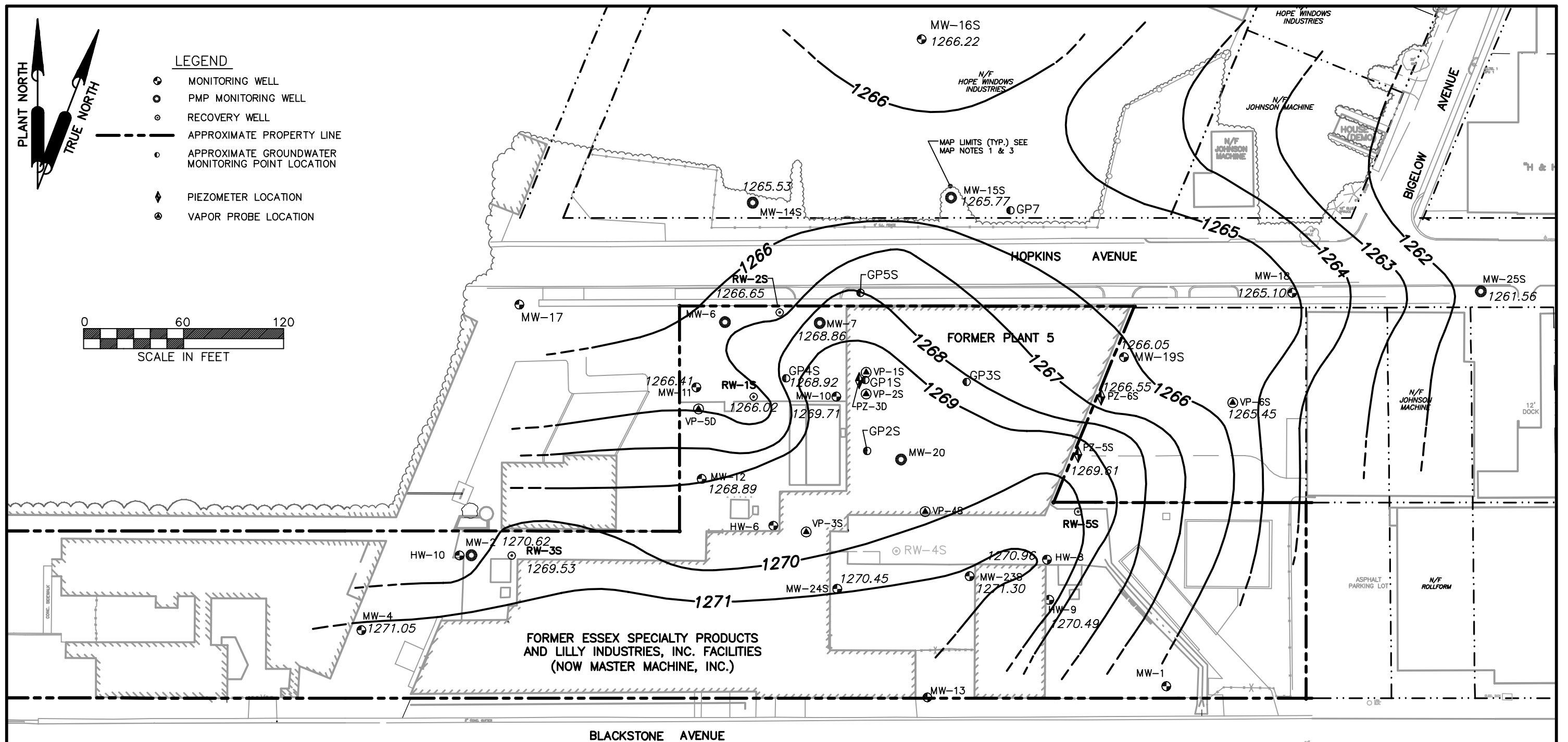
CONFIDENTIAL - ALL RIGHTS RESERVED - PROPERTY OF

URS

PITTSBURGH, PENNSYLVANIA

2010 ANNUAL PERFORMANCE MONITORING REPORT
DEEP GROUNDWATER POTENTIOMETRIC SURFACE - MARCH 24, 2010

ESSEX/HOPE SITE		JAMESTOWN, NY	
CLIENT: ESSEX SPECIALTY PRODUCTS, INC.		JOB NUMBER: 41568904	
SCALE: AS SHOWN	FIGURE NUMBER 4	REV 0	



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-45), 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. RODGERS 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.

3. AREAS OUTSIDE OF CLOUD LINE: PROPERTY LINES AND MAPPING ADJACENT TO BIGELOW AVENUE, NORTH & SOUTH OF HOPKINS AVENUE & EAST OF BIGELOW AVENUE, AND SOUTH OF BLACKSTONE AVENUE WERE TAKEN FROM A VARIETY OF SOURCES INCLUDING SEPIA MYLAR SITE MAP (SEE REFERENCE 1), USGS 7.5 MINUTE TOPOGRAPHIC MAP – JAMESTOWN, NY, CITY OF JAMESTOWN TAX MAP RECORDS, AND URS FIELD RECONNAISSANCE. LOCATIONS AND DIMENSIONS IN THESE AREAS ARE APPROXIMATE.

CONFIDENTIAL – ALL RIGHTS RESERVED – PROPERTY OF

URS

PITTSBURGH, PENNSYLVANIA

2010 ANNUAL PERFORMANCE MONITORING REPORT
SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE – JUNE 29, 2010

ESSEX/HOPE SITE

JAMESTOWN, NY |

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

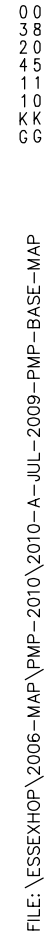
JOB NUMBER: 41568904

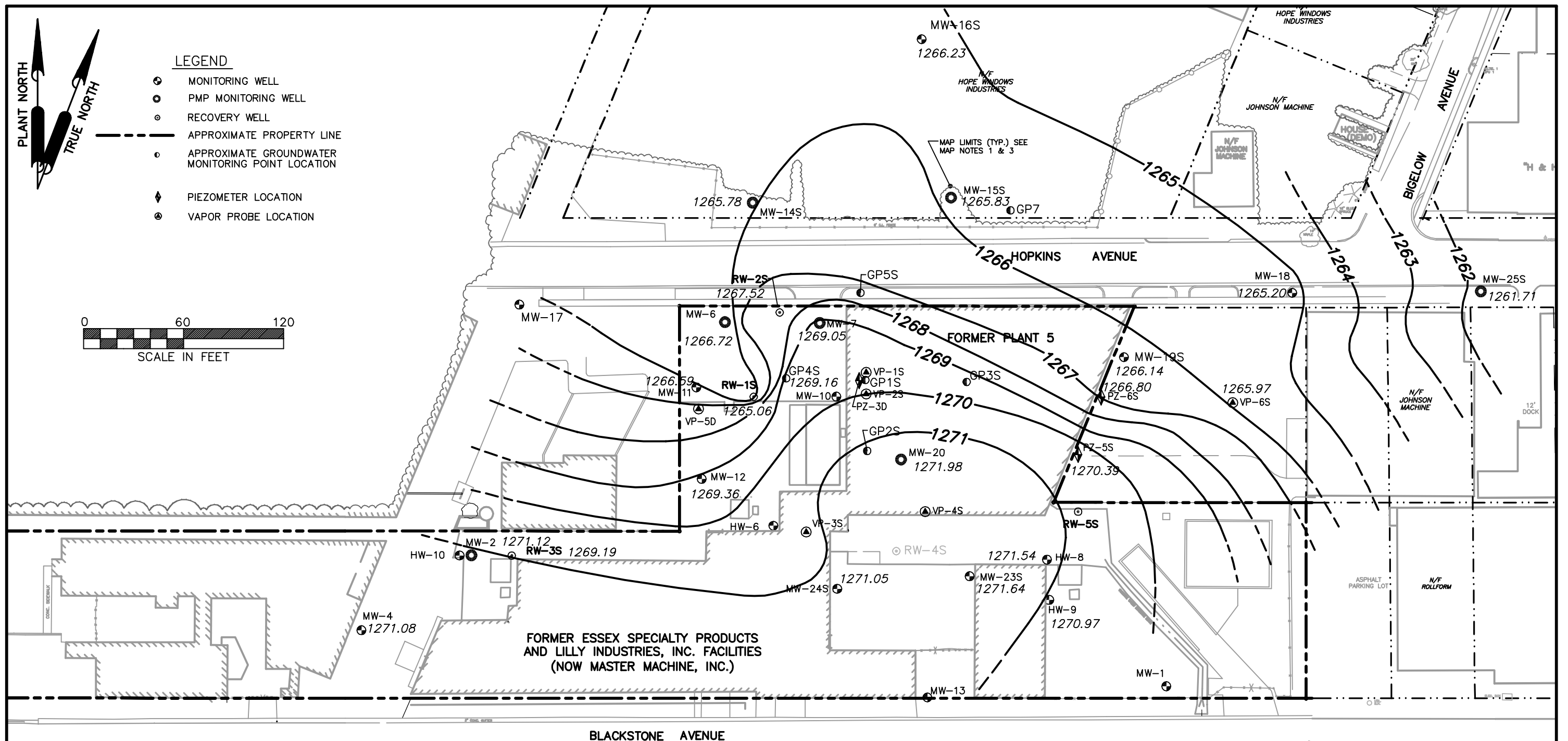
SCALE: AS SHOWN

FIGURE
NUMBER

5

EV
D





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. ROGERS 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-45), ALL PIEZOMETERS (PZ), AND ALL VAPOR PROBES (VP) (EXCEPT VP-35) 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.

3. AREAS OUTSIDE OF CLOUD LINE: PROPERTY LINES AND MAPPING ADJACENT TO BIGELOW AVENUE, NORTH & SOUTH OF HOPKINS AVENUE & EAST OF BIGELOW AVENUE, AND SOUTH OF BLACKSTONE AVENUE WERE TAKEN FROM A VARIETY OF SOURCES INCLUDING SEPIA MYLAR SITE MAP (SEE REFERENCE 1), USGS 7.5 MINUTE TOPOGRAPHIC MAP – JAMESTOWN, NY, CITY OF JAMESTOWN TAX MAP RECORDS, AND URS FIELD RECONNAISSANCE. LOCATIONS AND DIMENSIONS IN THESE AREAS ARE APPROXIMATE.

CONFIDENTIAL – ALL RIGHTS RESERVED – PROPERTY OF

URS

PITTSBURGH, PENNSYLVANIA

2010 ANNUAL PERFORMANCE MONITORING REPORT
SHALLOW GROUNDWATER POTENTIOMETRIC SURFACE – SEPT. 30, 2010

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

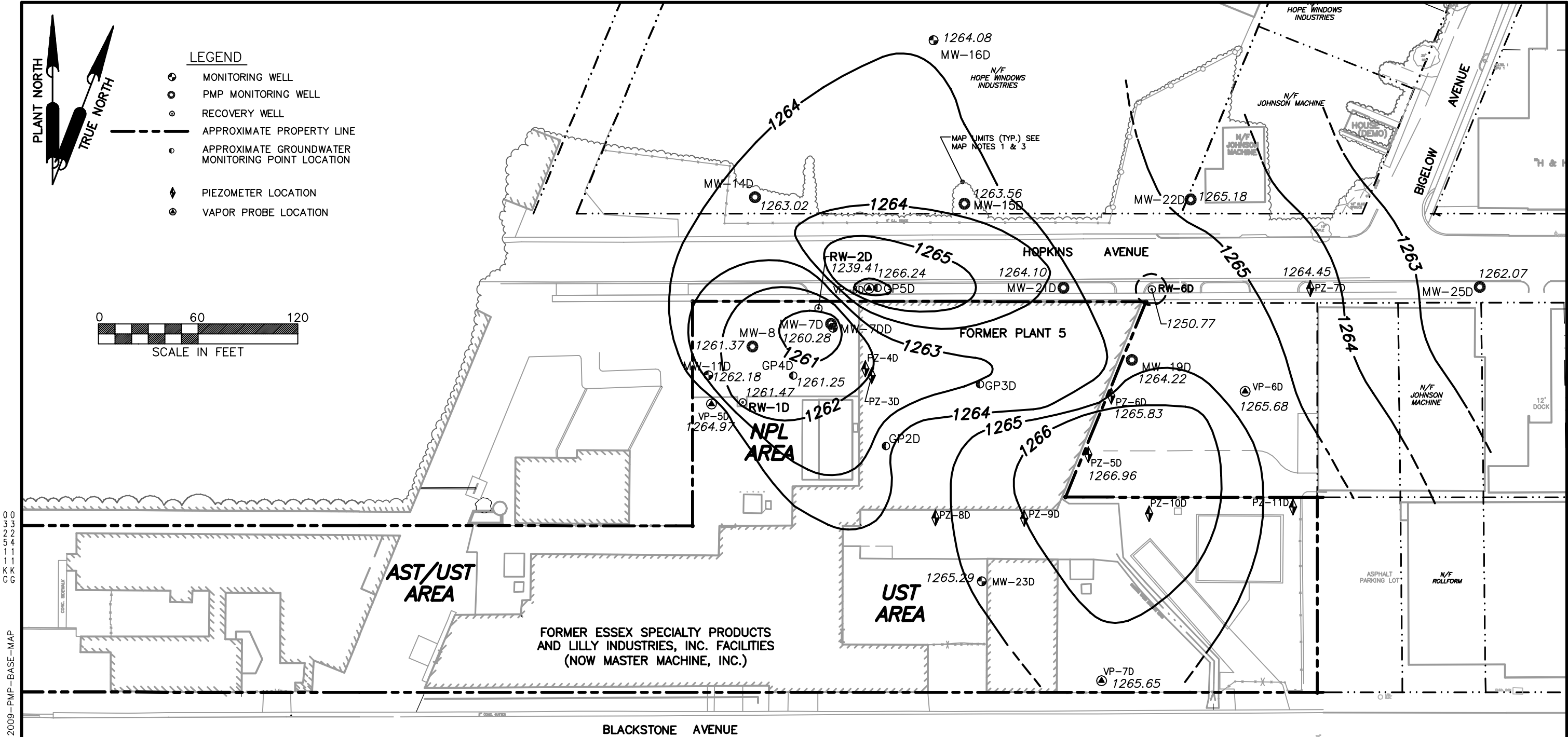
JOB NUMBER: 41568904

SCALE: AS SHOWN

FIGURE
NUMBER

7

REV
0



CONFIDENTIAL - ALL RIGHTS RESERVED - PROPERTY OF

URS

PITTSBURGH, PENNSYLVANIA

**2010 ANNUAL PERFORMANCE MONITORING REPORT
DEEP GROUNDWATER POTENTIOMETRIC SURFACE - SEPT. 30, 2010**

ESSEX/HOPE SITE

JAMESTOWN, NY

CLIENT: ESSEX SPECIALTY PRODUCTS, INC.

JOB NUMBER: 41568904

SCALE: AS SHOWN

FIGURE
NUMBER

8

REV
0

APPENDIX A

GROUNDWATER EXTRACTION MONITORING DATA

APPENDIX A-1

WATER LEVEL DATA

APPENDIX A-1

2010 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 24, 2010			June 29, 2010		
							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	8.72	NA	1271.15	9.25	NA	1270.62
MW-4	9792.3277	9900.7631	1281.02	13.0	18.0	Shallow	9.81	NA	1271.21	9.97	NA	1271.05
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	NA	NA	NA	10.55	NA	1267.43
MW-7	9976.6467	10175.6797	1277.73	10.0	20.0	Shallow	7.73	NA	1270.00	8.87	NA	1268.86
MW-7D	9973.2593	10174.8524	1277.8	35.0	45.0	Deep	12.29	NA	1265.51	17.39	NA	1260.41
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	11.25	NA	1266.72	16.65	NA	1261.32
MW-10	9932.4702	10185.7078	1277.94	8.5	18.5	Shallow	NA	NA	NA	8.23	NA	1269.71
MW-11	9937.9912	10101.7016	1277.75	5.0	15.0	Shallow	8.33	NA	1269.42	11.34	NA	1266.41
MW-11D	9942.3792	10101.1482	1277.85	35.0	45.0	Deep	9.65	NA	1268.20	15.56	NA	1262.29
MW-12	9883.0874	10104.9278	1278.18	4.0	14.0	Shallow	7.74	NA	1270.44	9.29	NA	1268.89
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	12.41	NA	1267.84	14.72	NA	1265.53
MW-14D	10049.5051	10129.1897	1280.01	40.0	50.0	Deep	13.63	NA	1266.38	17.10	NA	1262.91
MW-15S	10051.8272	10254.4862	1279.55	10.0	20.0	Shallow	12.62	NA	1266.93	13.78	NA	1265.77
MW-15D	10045.5611	10255.205	1279.46	34.0	44.0	Deep	12.80	NA	1266.66	16.15	NA	1263.31
MW-16S	10146.7788	10236.8582	1279.32	7.0	17.0	Shallow	12.05	NA	1267.27	13.10	NA	1266.22
MW-16D	10143.9497	10236.6005	1279.05	36.0	46.0	Deep	12.23	NA	1266.82	15.14	NA	1263.91
MW-17	9987.6315	9995.5207	1278.7			Deep	NA	NA	NA	NA	NA	NA
MW-18	9994.6655	10459.2207	1275.49		20.0	Shallow	9.48	NA	1266.01	10.39	NA	1265.10
MW-19S	9956.1454	10358.207	1276.82	9.0	19.0	Shallow	9.73	NA	1267.09	10.77	NA	1266.05
MW-19D	9951.569	10355.9748	1276.21	34.0	44.0	Deep	9.63	NA	1266.58	12.33	NA	1263.88
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	9.47	NA	1266.65	12.38	NA	1263.74
MW-22D	10048.1687	10391.3548	1276.04	32.5	42.0	Deep	9.81	NA	1266.23	11.03	NA	1265.01
MW-23S	9824.696	10265.6365	1277.85	5.0	14.5	Shallow	5.53	NA	1272.32	6.55	NA	1271.30
MW-23D	9818.3152	10265.6675	1277.89	28.0	37.5	Deep	10.33	NA	1267.56	12.90	NA	1264.99

APPENDIX A-1

2010 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 24, 2010			June 29, 2010		
							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	7.35	NA	1271.42	8.32	NA	1270.45
MW-25S	9995.6	10572.35	1272.76			Shallow	9.86	NA	1262.90	11.20	NA	1261.56
MW-25D	9995.46	10565.28	1273.41			Deep	9.61	NA	1263.80	11.37	NA	1262.04
HW-8	9834.664	10312.0885	1277.81	6.0	16.0	Shallow	5.49	NA	1272.32	6.85	NA	1270.96
HW-9	9810.5264	10313.3873	1280.78	6.0	16.0	Shallow	8.90	NA	1271.88	10.29	NA	1270.49
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	6.04	11.50	1269.77	9.79	11.50	1266.02
RW-1D	9925.9898	10121.7689	1276.34	32.0	57.0	Deep	10.28	NA	1266.06	14.95	NA	1261.39
RW-2S	9982.9501	10151.7112	1276.33	10.0	15.5	Shallow	10.00	12.70	1266.33	9.68	12.70	1266.65
RW-2D	9982.6088	10169.3122	1276.35	27.0	42.0	Deep	32.90	36.90	1243.45	36.70	36.90	1239.65
RW-3S	9837.0894	9990.9663	1278.14	9.0	13.5	Shallow	8.03	8.80	1270.11	8.61	8.80	1269.53
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	NA	NA	NA	18.27	NA	1247.64
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	8.16	NA	1269.90	9.14	NA	1268.92
GP-4D	9942.1743	10152.2232	1277.95	39.0	43.8	Deep	10.30	NA	1267.65	16.65	NA	1261.30
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	5.80	NA	1270.62	6.81	NA	1269.61
PZ-5D	9894.5731	10329.7148	1276.4	21.0	42.0	Deep	9.86	NA	1266.54	11.80	NA	1264.60

APPENDIX A-1

2010 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 24, 2010			June 29, 2010		
							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	9.04	NA	1267.57	10.06	NA	1266.55
PZ-6D	9929.8004	10343.4742	1276.62	25.5	45.5	Deep	9.82	NA	1266.80	12.36	NA	1264.26
PZ-7D	9994.5452	10463.2465	1275.68	22.0	42.0	Deep	NA	NA	NA	11.35	NA	1264.33
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	NA	NA	NA	NA	NA	NA
VP-5D	9925.1052	10103.0141	1277.88	12.5	34.3	Deep	10.07	NA	1267.81	12.90	NA	1264.98
VP-6S	9928.8123	10423.4628	1276.48	18.3	24.0	Deep upper gravel	10.00	NA	1266.48	11.03	NA	1265.45
VP-6D	9932.5744	10424.1378	1276.6	29.5	39.5	Deep	10.10	NA	1266.50	11.34	NA	1265.26
VP-7D	9758.4881	10337.7133	1278.64	20.4	39.3	Deep	NA	NA	NA	15.52	NA	1263.12
VP-8D	9994.6178	10197.8133	1277.15	20.0	39.0	Deep	10.03	NA	1267.12	12.49	NA	1264.66

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

2010 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, 2010		
							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
MW-2	9837.1531	9959.6857	1279.87		16.0	Shallow	8.75	NA	1271.12
MW-4	9792.3277	9900.7631	1281.02	13.0	18.0	Shallow	9.94	NA	1271.08
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	11.26	NA	1266.72
MW-7	9976.6467	10175.6797	1277.73	10.0	20.0	Shallow	8.68	NA	1269.05
MW-7D	9973.2593	10174.8524	1277.8	35.0	45.0	Deep	17.52	NA	1260.28
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	16.60	NA	1261.37
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	11.16	NA	1266.59
MW-11D	9942.3792	10101.1482	1277.85	35.0	45.0	Deep	15.67	NA	1262.18
MW-12	9883.0874	10104.9278	1278.18	4.0	14.0	Shallow	8.82	NA	1269.36
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	14.47	NA	1265.78
MW-14D	10049.5051	10129.1897	1280.01	40.0	50.0	Deep	16.99	NA	1263.02
MW-15S	10051.8272	10254.4862	1279.55	10.0	20.0	Shallow	13.72	NA	1265.83
MW-15D	10045.5611	10255.205	1279.46	34.0	44.0	Deep	15.90	NA	1263.56
MW-16S	10146.7788	10236.8582	1279.32	7.0	17.0	Shallow	13.09	NA	1266.23
MW-16D	10143.9497	10236.6005	1279.05	36.0	46.0	Deep	14.97	NA	1264.08
MW-17	9987.6315	9995.5207	1278.7			Deep	NA	NA	NA
MW-18	9994.6655	10459.2207	1275.49		20.0	Shallow	10.29	NA	1265.20
MW-19S	9956.1454	10358.207	1276.82	9.0	19.0	Shallow	10.68	NA	1266.14
MW-19D	9951.569	10355.9748	1276.21	34.0	44.0	Deep	11.99	NA	1264.22
MW-20	9894.7336	10224.5128	1278.56	6.5	11.5	Shallow	6.58	NA	1271.98
MW-21D	9995.0094	10314.801	1276.12	31.5	41.0	Deep	12.02	NA	1264.10
MW-22D	10048.1687	10391.3548	1276.04	32.5	42.0	Deep	10.86	NA	1265.18
MW-23S	9824.696	10265.6365	1277.85	5.0	14.5	Shallow	6.21	NA	1271.64
MW-23D	9818.3152	10265.6675	1277.89	28.0	37.5	Deep	12.60	NA	1265.29

APPENDIX A-1

2010 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, 2010		
							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	7.72	NA	1271.05
MW-25S	9995.6	10572.35	1272.76			Shallow	11.05	NA	1261.71
MW-25D	9995.46	10565.28	1273.41			Deep	11.34	NA	1262.07
HW-8	9834.664	10312.0885	1277.81	6.0	16.0	Shallow	6.27	NA	1271.54
HW-9	9810.5264	10313.3873	1280.78	6.0	16.0	Shallow	9.81	NA	1270.97
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	10.75	11.50	1265.06
RW-1D	9925.9898	10121.7689	1276.34	32.0	57.0	Deep	14.87	NA	1261.47
RW-2S	9982.9501	10151.7112	1276.33	10.0	15.5	Shallow	8.81	12.70	1267.52
RW-2D	9982.6088	10169.3122	1276.35	27.0	42.0	Deep	36.94	36.90	1239.41
RW-3S	9837.0894	9990.9663	1278.14	9.0	13.5	Shallow	8.95	8.80	1269.19
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	15.14	NA	1250.77
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	8.90	NA	1269.16
GP-4D	9942.1743	10152.2232	1277.95	39.0	43.8	Deep	16.70	NA	1261.25
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	6.03	NA	1270.39
PZ-5D	9894.5731	10329.7148	1276.4	21.0	42.0	Deep	9.44	NA	1266.96

APPENDIX A-1

2010 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, 2010		
							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	9.81	NA	1266.80
PZ-6D	9929.8004	10343.4742	1276.62	25.5	45.5	Deep	10.79	NA	1265.83
PZ-7D	9994.5452	10463.2465	1275.68	22.0	42.0	Deep	11.23	NA	1264.45
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	12.91	NA	1264.97
VP-6S	9928.8123	10423.4628	1276.48	18.3	24.0	Deep upper gravel	10.51	NA	1265.97
VP-6D	9932.5744	10424.1378	1276.6	29.5	39.5	Deep	10.92	NA	1265.68
VP-7D	9758.4881	10337.7133	1278.64	20.4	39.3	Deep	12.99	NA	1265.65
VP-8D	9994.6178	10197.8133	1277.15	20.0	39.0	Deep	10.91	NA	1266.24

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

2010 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	
01/07/10	0.024	1.29	1.314	3.27	NA	3.27	0.000	RW-6D offline due the heavy silt in well/pump.
01/19/10	0.002	0.439	0.441	3.38	0.003	3.383	0.003	RW-6D online at 1331 hrs following pump cleaning.
01/20/10	0	1.06	1.06	3.36	0.865	4.225	0	
02/03/10	0.052	1.36	1.412	3.37	0.101	3.471	0	RW-6D offline due the heavy silt in well; motor may be dead.
02/19/10	0.041	0.251	0.292	3.28	NA	3.28	0	
02/28/10	0.036	0.092	0.128	3.22	NA	3.22	0	
03/16/10	0.0002	0.00	0.0005	0.0005	NA	0.0005	0	
03/22/10	0.011	2.18	2.191	3.62	NA	3.62	0	RWs offline at 1220 hrs for carbon changeout activities.
03/31/10	0.0004	1.70	1.7004	3.50	NA	3.50	0.000	RWs online on 3/24/10 at 1155 hrs following carbon changeout.
04/14/10	0.002	0.439	0.441	3.32	NA	3.32	0.00005	
04/30/10	0.0006	0.255	0.2556	3.17	NA	3.17	0.00003	
05/11/10	0.00005	0.518	0.51805	2.60	NA	2.60	0.00008	
05/27/10	0.00030	1.060	1.0603	3.25	0.127	3.377	0.00001	RW-6D online on 5/21/10 following well development and motor replacement.
06/09/10	0.008	0.12	0.127	3.25	0.126	3.376	0.00010	
06/24/10	0.034	0.003	0.037	3.17	0.246	3.416	0.00020	
07/08/10	0.0003	0.316	0.3163	3.04	0.317	3.357	0.00040	
07/12/10	0.00003	0.37	0.37003	1.20	0.332	1.532	0.00024	RWs offline at 1215 hrs for RW-2D acid treatment.
07/15/10	0.032	1.36	1.392	2.51	0.990	3.50	0.0053	RWs online at 0945 hrs following completion of RW-2D acid treatment activities. RW-6D pipe repair at rack and new meter installed.
07/26/10	0.002	0.896	0.898	2.61	0.428	3.04	0.00008	RW-3S offline from 1215 hrs - 1427 hrs for well development, pump, cleaning, meter cleaning.

APPENDIX A-2

2010 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	
07/27/10		2.68		3.16				RW-2S offline from 0830 hrs - 0953 hrs and RW-2D offline from 0955 hrs - 1347 hrs; well development, pump and meter cleaning completed.
07/28/10	0.003							RW-1S offline from 0830 hrs - 1052 hrs for well development, pump, cleaning, meter cleaning.
07/29/10	0.193	2.580	2.773	3.20	0.447	3.647	0.00003	
08/03/10	0.085	1.69	1.775	3.08	0.424	3.504	0	
08/20/10	0.051	0.356	0.407	3.17	0.369	3.539	0.0003	
08/31/10	0.063	0.641	0.704	1.53	0.343	1.873	0.0002	RW-2D restarted at 1415 hrs.
09/14/10	0.058	0.350	0.408	3.42	0.281	3.701	0.0002	
09/27/10	0.068	0.526	0.594	3.56	0.238	3.798	0.0001	
10/13/10	0.174	1.87	2.044	0.981	0.240	1.221	0.00002	
10/18/10	0.096	1.02	1.116	2.10	0.192	2.292	0.0004	
11/04/10	0.044	0.307	0.351	1.41	0.084	1.494	0.00006	
11/21/10	0.109	1.06	1.169	0.537	0.249	0.786	0.0003	RWs offline at 1310 hrs for carbon changeout activities.
11/23/10	0.349	2.48	2.829	1.20	0.329	1.529	0.0022	RWs online at 1225 following carbon changeout activities; RW-6D meter cleaned.
11/29/10	0.237	1.97	2.207	1.70	0.231	1.931	0.00001	
12/10/10	0.180	1.14	1.32	1.42	0.127	1.547	0.000006	RWs down on arrival, restarted at 1225 hrs. RW-6D remain offline due to frozen line.
12/16/10	0.242	2.04	2.282	1.85		1.85	0.00002	
12/21/10	0.125	1.52	1.645	1.26		1.26	0.00004	RW-2D online running local at 40 hz; level probe malfunction.
12/30/10	0.071	0.707	0.778	2.19	0.253	2.19	0.0004	RW-6D online at 1305 hrs following repair of thermostat and line thaw.

APPENDIX A-3

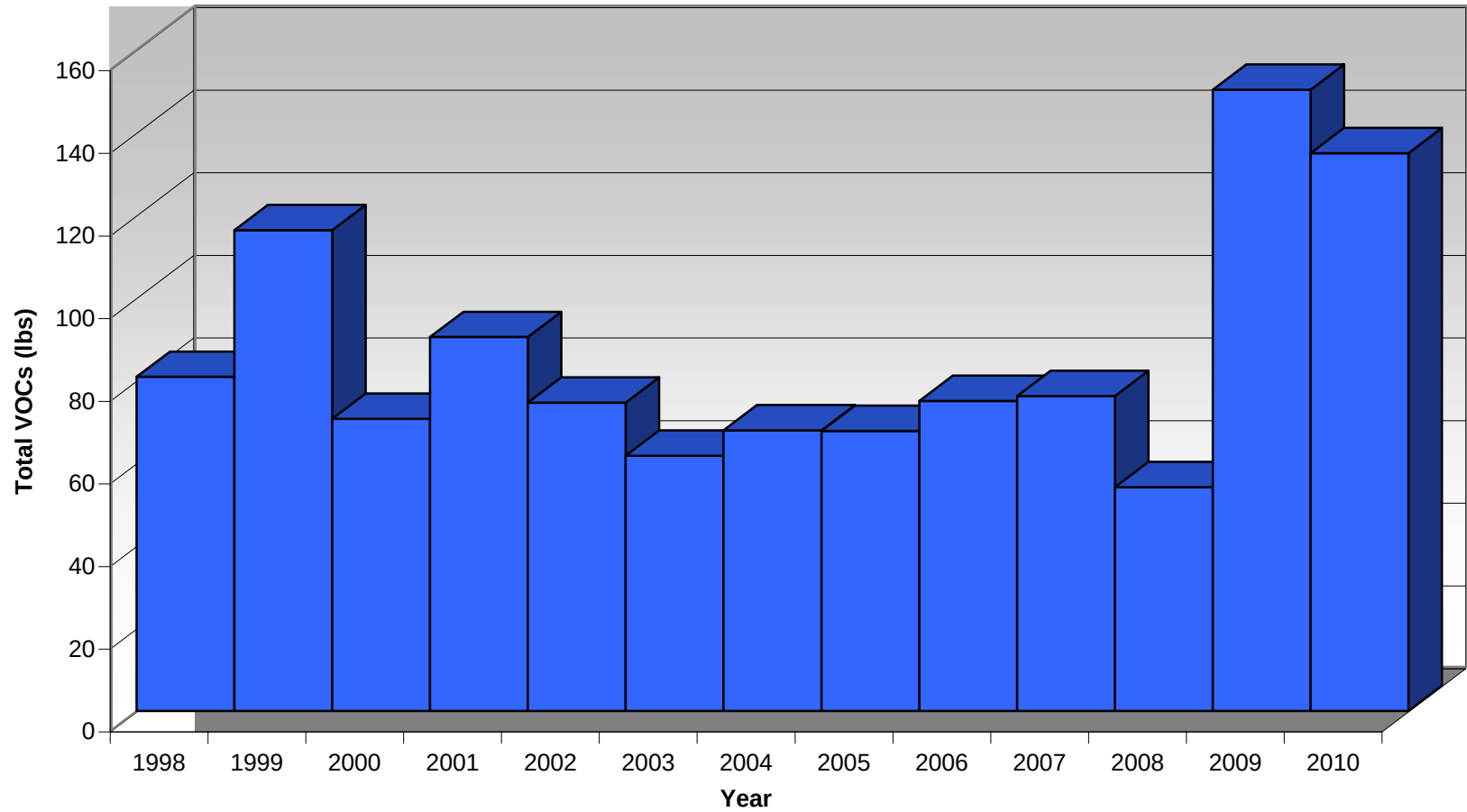
Recovery Well Performance Data

APPENDIX A-3 - Recovery Well Performance Data

TOTAL SITE VOCs MASS REMOVED

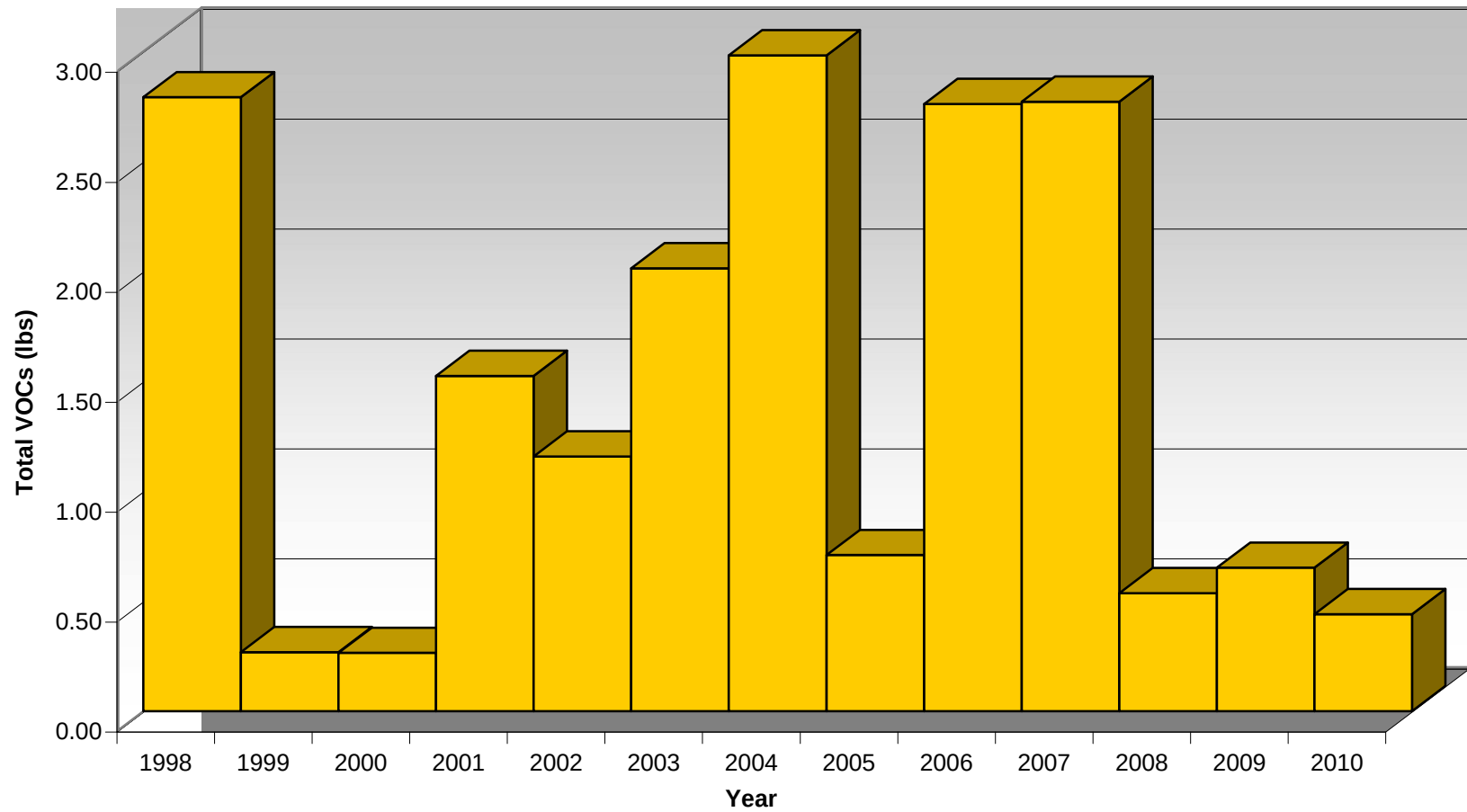
Essex/Hope Site

Jamestown, NY



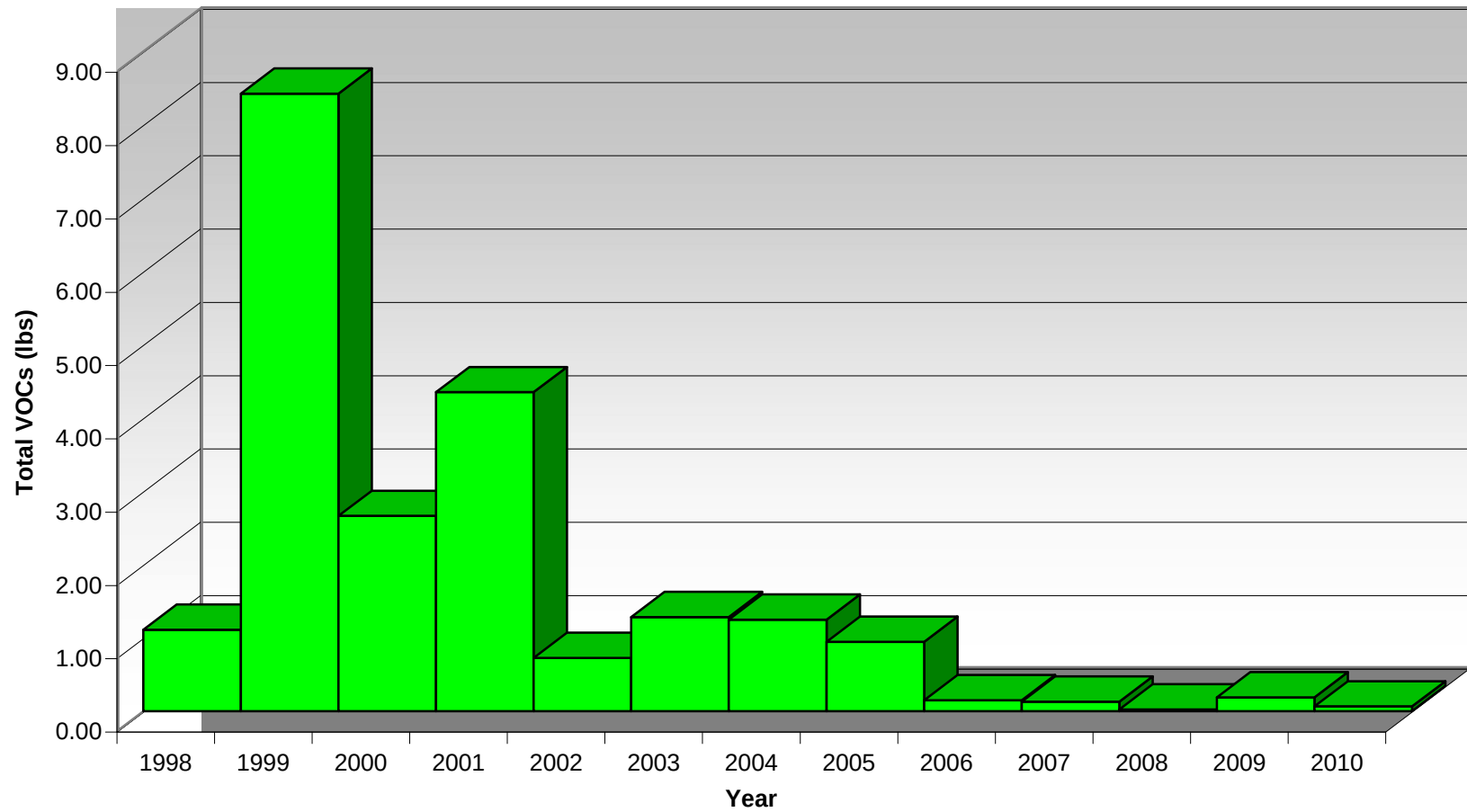
APPENDIX A-3 - Recovery Well Performance Data

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



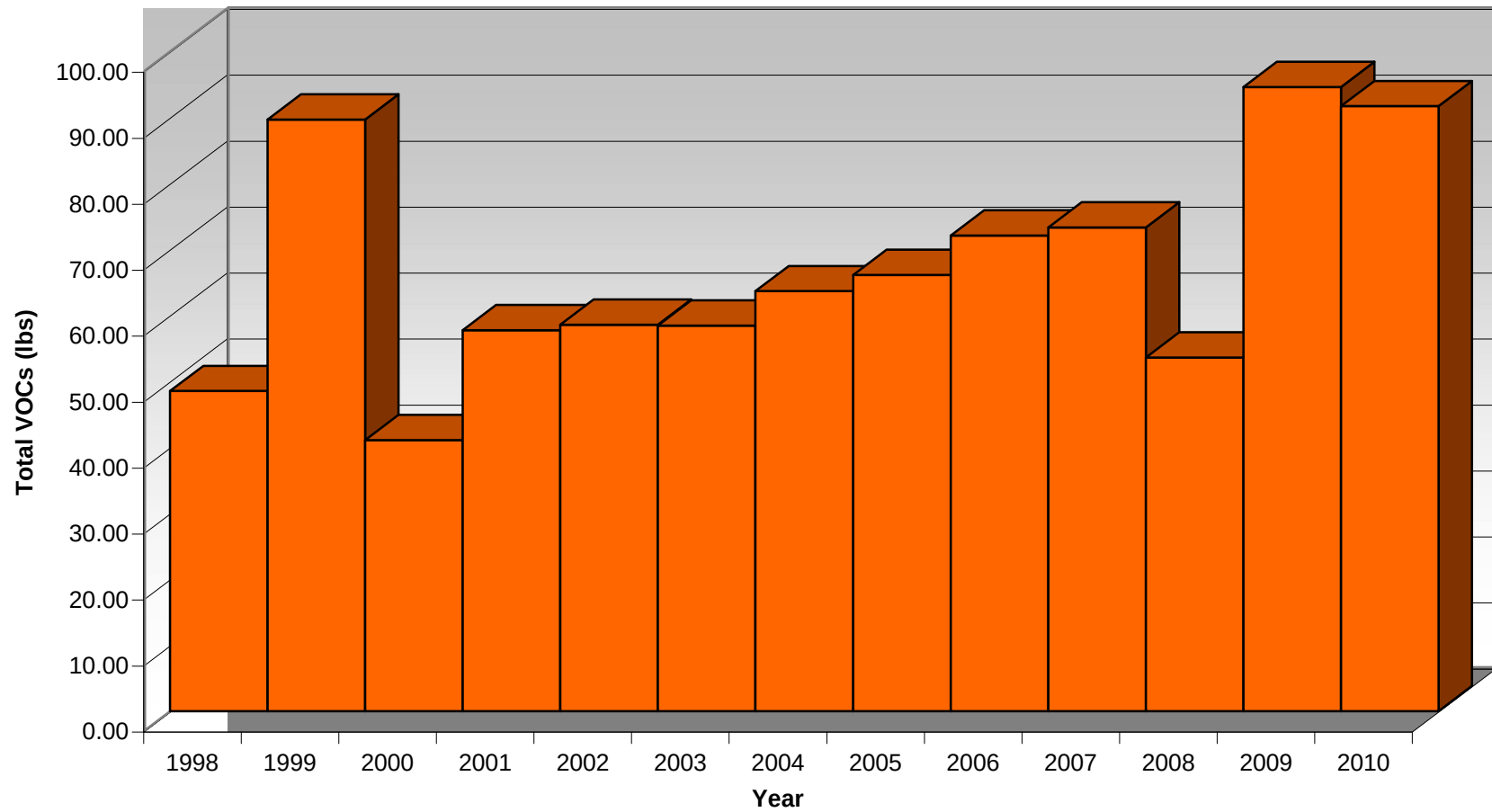
APPENDIX A-3 - Recovery Well Performance Data

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



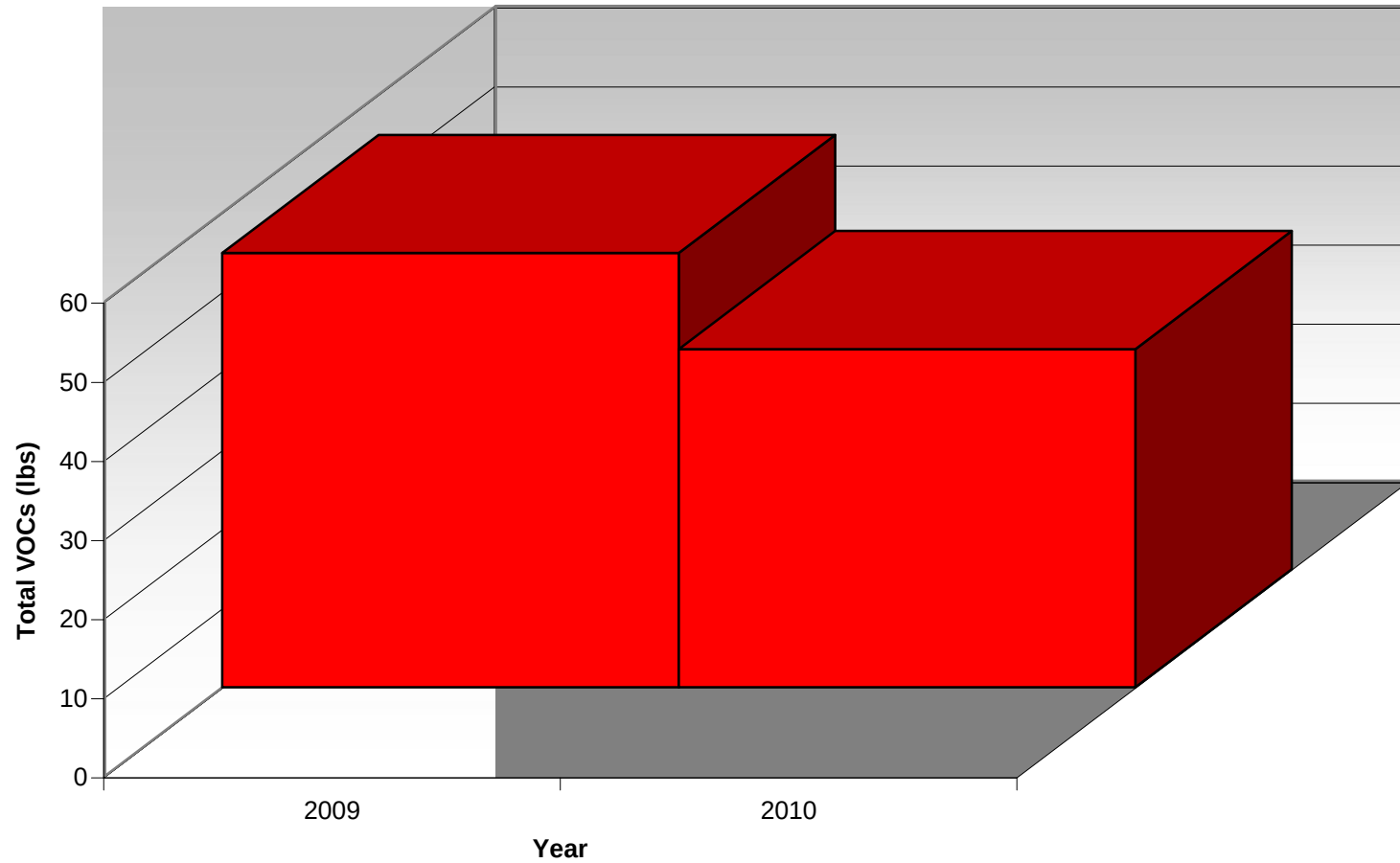
APPENDIX A-3 - Recovery Well Performance Data

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



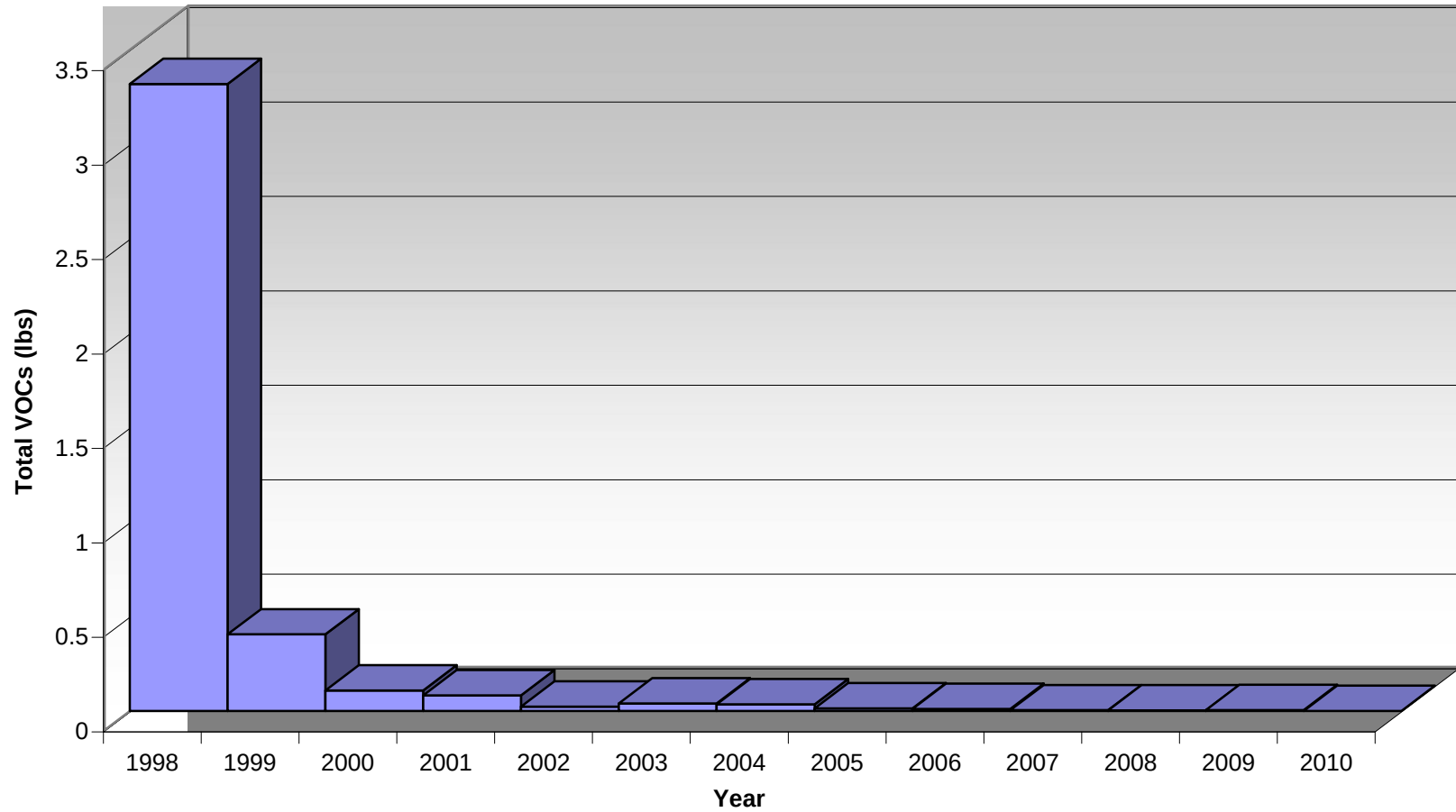
APPENDIX A-3 - Recovery Well Performance Data

RW-6D - 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

2010 SEMI-ANNUAL RECOVERY WELL DATA

July 12, 2010

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

RE: Project: Essex-Hope 41568652.10000
Pace Project No.: 3030064

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on June 25, 2010. 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,



Timothy Reed

timothy.reed@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 14

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: Essex-Hope 41568652.10000

Pace Project No.: 3030064

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 14

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568652.10000

Pace Project No.: 3030064

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3030064001	RW-6D	EPA 8260	JHC	42	PASI-PA
3030064002	RW-3S	EPA 8260	JHC	42	PASI-PA
3030064003	RW-2D	EPA 8260	JHC	42	PASI-PA
3030064004	RW-2S	EPA 8260	JHC	42	PASI-PA
3030064005	RW-1S	EPA 8260	JHC	42	PASI-PA
3030064006	TB-01	EPA 8260	JHC	42	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 14

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Essex-Hope 41568652.10000

Pace Project No.: 3030064

Sample: RW-6D		Lab ID: 3030064001	Collected: 06/24/10 12:55	Received: 06/25/10 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	21100	ug/L	1000	100		07/07/10 15:58	67-64-1	
Benzene	82.3	ug/L	1.0	1		07/06/10 17:49	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/06/10 17:49	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/06/10 17:49	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/06/10 17:49	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/06/10 17:49	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/06/10 17:49	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/06/10 17:49	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/06/10 17:49	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/06/10 17:49	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/06/10 17:49	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/06/10 17:49	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/06/10 17:49	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/06/10 17:49	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/06/10 17:49	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/06/10 17:49	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/06/10 17:49	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/06/10 17:49	107-06-2	
1,1-Dichloroethene	48.1	ug/L	5.0	1		07/06/10 17:49	75-35-4	
cis-1,2-Dichloroethene	16900	ug/L	500	100		07/07/10 15:58	156-59-2	
trans-1,2-Dichloroethene	85.6	ug/L	5.0	1		07/06/10 17:49	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/06/10 17:49	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/10 17:49	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/10 17:49	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/06/10 17:49	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/06/10 17:49	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		07/06/10 17:49	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/06/10 17:49	108-10-1	
Styrene	ND	ug/L	5.0	1		07/06/10 17:49	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/06/10 17:49	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/06/10 17:49	127-18-4	
Toluene	ND	ug/L	5.0	1		07/06/10 17:49	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/06/10 17:49	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/06/10 17:49	79-00-5	
Trichloroethene	3090	ug/L	500	100		07/07/10 15:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/06/10 17:49	75-69-4	
Vinyl chloride	1060	ug/L	100	100		07/07/10 15:58	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/06/10 17:49	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/06/10 17:49	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130	1		07/06/10 17:49	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		07/06/10 17:49	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		07/06/10 17:49	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope 41568652.10000

Pace Project No.: 3030064

Sample: RW-3S		Lab ID: 3030064002		Collected: 06/24/10 13:05		Received: 06/25/10 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		07/07/10 10:53	67-64-1		
Benzene	45.1	ug/L	1.0	1		07/07/10 10:53	71-43-2		
Bromodichloromethane	ND	ug/L	5.0	1		07/07/10 10:53	75-27-4		
Bromoform	ND	ug/L	5.0	1		07/07/10 10:53	75-25-2		
Bromomethane	ND	ug/L	5.0	1		07/07/10 10:53	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		07/07/10 10:53	78-93-3		
Carbon disulfide	ND	ug/L	5.0	1		07/07/10 10:53	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		07/07/10 10:53	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		07/07/10 10:53	108-90-7		
Chloroethane	ND	ug/L	5.0	1		07/07/10 10:53	75-00-3		
Chloroform	ND	ug/L	5.0	1		07/07/10 10:53	67-66-3		
Chloromethane	ND	ug/L	5.0	1		07/07/10 10:53	74-87-3		
Dibromochloromethane	ND	ug/L	5.0	1		07/07/10 10:53	124-48-1		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/07/10 10:53	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/07/10 10:53	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/07/10 10:53	106-46-7		
1,1-Dichloroethane	ND	ug/L	5.0	1		07/07/10 10:53	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		07/07/10 10:53	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		07/07/10 10:53	75-35-4		
cis-1,2-Dichloroethene	6.9	ug/L	5.0	1		07/07/10 10:53	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/07/10 10:53	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		07/07/10 10:53	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/07/10 10:53	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/07/10 10:53	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		07/07/10 10:53	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		07/07/10 10:53	591-78-6		
Methylene Chloride	ND	ug/L	5.0	1		07/07/10 10:53	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/07/10 10:53	108-10-1		
Styrene	ND	ug/L	5.0	1		07/07/10 10:53	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/07/10 10:53	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		07/07/10 10:53	127-18-4		
Toluene	ND	ug/L	5.0	1		07/07/10 10:53	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/07/10 10:53	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/07/10 10:53	79-00-5		
Trichloroethene	18.8	ug/L	5.0	1		07/07/10 10:53	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		07/07/10 10:53	75-69-4		
Vinyl chloride	ND	ug/L	1.0	1		07/07/10 10:53	75-01-4		
m&p-Xylene	ND	ug/L	5.0	1		07/07/10 10:53	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		07/07/10 10:53	95-47-6		
4-Bromofluorobenzene (S)	102	%	70-130	1		07/07/10 10:53	460-00-4		
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		07/07/10 10:53	17060-07-0		
Toluene-d8 (S)	96	%	70-130	1		07/07/10 10:53	2037-26-5		

ANALYTICAL RESULTS

Project: Essex-Hope 41568652.10000

Pace Project No.: 3030064

Sample: RW-2D		Lab ID: 3030064003	Collected: 06/24/10 13:25	Received: 06/25/10 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		07/06/10 18:39	67-64-1	
Benzene	10.1	ug/L	1.0	1		07/06/10 18:39	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/06/10 18:39	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/06/10 18:39	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/06/10 18:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/06/10 18:39	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/06/10 18:39	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/06/10 18:39	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/06/10 18:39	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/06/10 18:39	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/06/10 18:39	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/06/10 18:39	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/06/10 18:39	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/06/10 18:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/06/10 18:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/06/10 18:39	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/06/10 18:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/06/10 18:39	107-06-2	
1,1-Dichloroethene	25.4	ug/L	5.0	1		07/06/10 18:39	75-35-4	
cis-1,2-Dichloroethene	4120	ug/L	250	50		07/08/10 11:03	156-59-2	
trans-1,2-Dichloroethene	40.6	ug/L	5.0	1		07/06/10 18:39	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/06/10 18:39	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/10 18:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/10 18:39	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/06/10 18:39	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/06/10 18:39	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		07/06/10 18:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/06/10 18:39	108-10-1	
Styrene	ND	ug/L	5.0	1		07/06/10 18:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/06/10 18:39	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/06/10 18:39	127-18-4	
Toluene	ND	ug/L	5.0	1		07/06/10 18:39	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/06/10 18:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/06/10 18:39	79-00-5	
Trichloroethene	2450	ug/L	250	50		07/08/10 11:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/06/10 18:39	75-69-4	
Vinyl chloride	591	ug/L	50.0	50		07/08/10 11:03	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/06/10 18:39	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/06/10 18:39	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		07/06/10 18:39	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		07/06/10 18:39	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		07/06/10 18:39	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope 41568652.10000

Pace Project No.: 3030064

Sample: RW-2S		Lab ID: 3030064004	Collected: 06/24/10 13:35	Received: 06/25/10 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		07/06/10 19:05	67-64-1	
Benzene	ND	ug/L	1.0	1		07/06/10 19:05	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/06/10 19:05	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/06/10 19:05	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/06/10 19:05	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/06/10 19:05	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/06/10 19:05	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/06/10 19:05	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/06/10 19:05	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/06/10 19:05	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/06/10 19:05	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/06/10 19:05	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/06/10 19:05	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/06/10 19:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/06/10 19:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/06/10 19:05	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/06/10 19:05	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/06/10 19:05	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/06/10 19:05	75-35-4	
cis-1,2-Dichloroethene	10.4	ug/L	5.0	1		07/06/10 19:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/06/10 19:05	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/06/10 19:05	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/10 19:05	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/10 19:05	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/06/10 19:05	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/06/10 19:05	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		07/06/10 19:05	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/06/10 19:05	108-10-1	
Styrene	ND	ug/L	5.0	1		07/06/10 19:05	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/06/10 19:05	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/06/10 19:05	127-18-4	
Toluene	ND	ug/L	5.0	1		07/06/10 19:05	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/06/10 19:05	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/06/10 19:05	79-00-5	
Trichloroethene	10.4	ug/L	5.0	1		07/06/10 19:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/06/10 19:05	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		07/06/10 19:05	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/06/10 19:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/06/10 19:05	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		07/06/10 19:05	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		07/06/10 19:05	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		07/06/10 19:05	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope 41568652.10000

Pace Project No.: 3030064

Sample: RW-1S		Lab ID: 3030064005	Collected: 06/24/10 13:40	Received: 06/25/10 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		07/06/10 19:30	67-64-1	
Benzene	ND	ug/L	1.0	1		07/06/10 19:30	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/06/10 19:30	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/06/10 19:30	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/06/10 19:30	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/06/10 19:30	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/06/10 19:30	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/06/10 19:30	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/06/10 19:30	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/06/10 19:30	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/06/10 19:30	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/06/10 19:30	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/06/10 19:30	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/06/10 19:30	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/06/10 19:30	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/06/10 19:30	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/06/10 19:30	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/06/10 19:30	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/06/10 19:30	75-35-4	
cis-1,2-Dichloroethene	180	ug/L	5.0	1		07/06/10 19:30	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/06/10 19:30	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/06/10 19:30	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/10 19:30	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/10 19:30	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/06/10 19:30	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/06/10 19:30	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		07/06/10 19:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/06/10 19:30	108-10-1	
Styrene	ND	ug/L	5.0	1		07/06/10 19:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/06/10 19:30	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/06/10 19:30	127-18-4	
Toluene	ND	ug/L	5.0	1		07/06/10 19:30	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/06/10 19:30	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/06/10 19:30	79-00-5	
Trichloroethene	160	ug/L	5.0	1		07/06/10 19:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/06/10 19:30	75-69-4	
Vinyl chloride	3.3	ug/L	1.0	1		07/06/10 19:30	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/06/10 19:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/06/10 19:30	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		07/06/10 19:30	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		07/06/10 19:30	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		07/06/10 19:30	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope 41568652.10000

Pace Project No.: 3030064

Sample: TB-01		Lab ID: 3030064006	Collected: 06/24/10 00:00	Received: 06/25/10 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		07/06/10 12:18	67-64-1	
Benzene	ND ug/L		1.0	1		07/06/10 12:18	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		07/06/10 12:18	75-27-4	
Bromoform	ND ug/L		5.0	1		07/06/10 12:18	75-25-2	
Bromomethane	ND ug/L		5.0	1		07/06/10 12:18	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		07/06/10 12:18	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		07/06/10 12:18	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		07/06/10 12:18	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		07/06/10 12:18	108-90-7	
Chloroethane	ND ug/L		5.0	1		07/06/10 12:18	75-00-3	
Chloroform	ND ug/L		5.0	1		07/06/10 12:18	67-66-3	
Chloromethane	ND ug/L		5.0	1		07/06/10 12:18	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		07/06/10 12:18	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		07/06/10 12:18	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		07/06/10 12:18	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		07/06/10 12:18	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		07/06/10 12:18	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		07/06/10 12:18	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		07/06/10 12:18	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		07/06/10 12:18	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		07/06/10 12:18	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		07/06/10 12:18	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		07/06/10 12:18	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		07/06/10 12:18	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		07/06/10 12:18	100-41-4	
2-Hexanone	ND ug/L		10.0	1		07/06/10 12:18	591-78-6	
Methylene Chloride	ND ug/L		5.0	1		07/06/10 12:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		07/06/10 12:18	108-10-1	
Styrene	ND ug/L		5.0	1		07/06/10 12:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		07/06/10 12:18	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		07/06/10 12:18	127-18-4	
Toluene	ND ug/L		5.0	1		07/06/10 12:18	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		07/06/10 12:18	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		07/06/10 12:18	79-00-5	
Trichloroethene	ND ug/L		5.0	1		07/06/10 12:18	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		07/06/10 12:18	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		07/06/10 12:18	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		07/06/10 12:18	179601-23-1	
o-Xylene	ND ug/L		5.0	1		07/06/10 12:18	95-47-6	
4-Bromofluorobenzene (S)	101 %		70-130	1		07/06/10 12:18	460-00-4	
1,2-Dichloroethane-d4 (S)	95 %		70-130	1		07/06/10 12:18	17060-07-0	
Toluene-d8 (S)	94 %		70-130	1		07/06/10 12:18	2037-26-5	

QUALITY CONTROL DATA

Project: Essex-Hope 41568652.10000

Pace Project No.: 3030064

QC Batch: MSV/6440 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3030064001, 3030064002, 3030064003, 3030064004, 3030064005, 3030064006

METHOD BLANK: 190857 Matrix: Water
Associated Lab Samples: 3030064001, 3030064002, 3030064003, 3030064004, 3030064005, 3030064006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	07/06/10 11:01	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	07/06/10 11:01	
1,1,2-Trichloroethane	ug/L	ND	5.0	07/06/10 11:01	
1,1-Dichloroethane	ug/L	ND	5.0	07/06/10 11:01	
1,1-Dichloroethene	ug/L	ND	5.0	07/06/10 11:01	
1,2-Dichlorobenzene	ug/L	ND	5.0	07/06/10 11:01	
1,2-Dichloroethane	ug/L	ND	5.0	07/06/10 11:01	
1,2-Dichloropropane	ug/L	ND	5.0	07/06/10 11:01	
1,3-Dichlorobenzene	ug/L	ND	5.0	07/06/10 11:01	
1,4-Dichlorobenzene	ug/L	ND	5.0	07/06/10 11:01	
2-Butanone (MEK)	ug/L	ND	10.0	07/06/10 11:01	
2-Hexanone	ug/L	ND	10.0	07/06/10 11:01	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/06/10 11:01	
Acetone	ug/L	ND	10.0	07/06/10 11:01	
Benzene	ug/L	ND	1.0	07/06/10 11:01	
Bromodichloromethane	ug/L	ND	5.0	07/06/10 11:01	
Bromoform	ug/L	ND	5.0	07/06/10 11:01	
Bromomethane	ug/L	ND	5.0	07/06/10 11:01	
Carbon disulfide	ug/L	ND	5.0	07/06/10 11:01	
Carbon tetrachloride	ug/L	ND	5.0	07/06/10 11:01	
Chlorobenzene	ug/L	ND	5.0	07/06/10 11:01	
Chloroethane	ug/L	ND	5.0	07/06/10 11:01	
Chloroform	ug/L	ND	5.0	07/06/10 11:01	
Chloromethane	ug/L	ND	5.0	07/06/10 11:01	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/06/10 11:01	
cis-1,3-Dichloropropene	ug/L	ND	5.0	07/06/10 11:01	
Dibromochloromethane	ug/L	ND	5.0	07/06/10 11:01	
Ethylbenzene	ug/L	ND	5.0	07/06/10 11:01	
m&p-Xylene	ug/L	ND	5.0	07/06/10 11:01	
Methylene Chloride	ug/L	ND	5.0	07/06/10 11:01	
o-Xylene	ug/L	ND	5.0	07/06/10 11:01	
Styrene	ug/L	ND	5.0	07/06/10 11:01	
Tetrachloroethene	ug/L	ND	5.0	07/06/10 11:01	
Toluene	ug/L	ND	5.0	07/06/10 11:01	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/06/10 11:01	
trans-1,3-Dichloropropene	ug/L	ND	5.0	07/06/10 11:01	
Trichloroethene	ug/L	ND	5.0	07/06/10 11:01	
Trichlorofluoromethane	ug/L	ND	5.0	07/06/10 11:01	
Vinyl chloride	ug/L	ND	1.0	07/06/10 11:01	
1,2-Dichloroethane-d4 (S)	%	95	70-130	07/06/10 11:01	
4-Bromofluorobenzene (S)	%	101	70-130	07/06/10 11:01	
Toluene-d8 (S)	%	97	70-130	07/06/10 11:01	

Date: 07/12/2010 05:12 PM

REPORT OF LABORATORY ANALYSIS

Page 10 of 14

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: Essex-Hope 41568652.10000

Pace Project No.: 3030064

LABORATORY CONTROL SAMPLE: 190858

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.2	86	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	15.5	77	70-130	
1,1,2-Trichloroethane	ug/L	20	16.0	80	70-130	
1,1-Dichloroethane	ug/L	20	17.6	88	70-130	
1,1-Dichloroethene	ug/L	20	15.3	77	70-130	
1,2-Dichlorobenzene	ug/L	20	16.6	83	70-130	
1,2-Dichloroethane	ug/L	20	16.4	82	70-130	
1,2-Dichloropropane	ug/L	20	16.2	81	70-130	
1,3-Dichlorobenzene	ug/L	20	16.0	80	70-130	
1,4-Dichlorobenzene	ug/L	20	16.5	82	70-130	
2-Butanone (MEK)	ug/L	20	7.2J	36	70-130	L0
2-Hexanone	ug/L	20	17.9	90	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	17.5	88	70-130	
Acetone	ug/L	20	18.3	92	70-130	
Benzene	ug/L	20	17.4	87	70-130	
Bromodichloromethane	ug/L	20	16.8	84	70-130	
Bromoform	ug/L	20	17.2	86	70-130	
Bromomethane	ug/L	20	45.4	227	70-130	L0
Carbon disulfide	ug/L	20	23.4	117	70-130	
Carbon tetrachloride	ug/L	20	28.4	142	70-130	L0
Chlorobenzene	ug/L	20	16.9	85	70-130	
Chloroethane	ug/L	20	10.4	52	70-130	L0
Chloroform	ug/L	20	17.5	88	70-130	
Chloromethane	ug/L	20	15.7	79	70-130	
cis-1,2-Dichloroethene	ug/L	20	17.4	87	70-130	
cis-1,3-Dichloropropene	ug/L	20	15.3	76	70-130	
Dibromochloromethane	ug/L	20	17.2	86	70-130	
Ethylbenzene	ug/L	20	16.2	81	70-130	
m&p-Xylene	ug/L	40	33.0	82	70-130	
Methylene Chloride	ug/L	20	16.4	82	70-130	
o-Xylene	ug/L	20	16.3	81	70-130	
Styrene	ug/L	20	15.7	79	70-130	
Tetrachloroethene	ug/L	20	17.3	86	70-130	
Toluene	ug/L	20	16.7	84	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.0	85	70-130	
trans-1,3-Dichloropropene	ug/L	20	15.3	77	70-130	
Trichloroethene	ug/L	20	17.7	89	70-130	
Trichlorofluoromethane	ug/L	20	17.2	86	70-130	
Vinyl chloride	ug/L	20	18.8	94	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

QUALITY CONTROL DATA

Project: Essex-Hope 41568652.10000

Matrix Project No.: 3030064

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 190859 190860											
Parameter	Units	3030344001 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	1.0 U	20	20	17.3	18.4	87	92	70-130	6	
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	20	20	16.1	16.8	80	84	70-130	4	
1,1,2-Trichloroethane	ug/L	1.0 U	20	20	19.6	18.4	98	92	70-130	6	
1,1-Dichloroethane	ug/L	1.0 U	20	20	19.1	20.6	96	103	70-130	7	
1,1-Dichloroethene	ug/L	1.0 U	20	20	15.2	16.2	76	81	70-130	7	
1,2-Dichlorobenzene	ug/L	1.0 U	20	20	16.3	17.3	82	87	70-130	6	
1,2-Dichloroethane	ug/L	1.0 U	20	20	16.2	17.4	81	87	70-130	7	
1,2-Dichloropropane	ug/L	1.0 U	20	20	17.3	16.9	86	85	70-130	2	
1,3-Dichlorobenzene	ug/L	1.0 U	20	20	15.7	17.1	78	86	70-130	9	
1,4-Dichlorobenzene	ug/L	1.0 U	20	20	16.3	17.0	82	85	70-130	4	
2-Butanone (MEK)	ug/L	79.1	20	20	75.8	81.7	-16	13	70-130	7	M0
2-Hexanone	ug/L	14.2	20	20	31.7	30.4	87	81	70-130	4	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0J	20	20	23.9	22.9	95	90	70-130	4	
Acetone	ug/L	285	20	20	259	281	-128	-18	70-130	8	M0
Benzene	ug/L	504	20	20	627	639	614	676	70-130	2	E
Bromodichloromethane	ug/L	1.0 U	20	20	16.3	15.8	81	79	70-130	3	
Bromoform	ug/L	1.0 U	20	20	15.0	14.4	75	72	70-130	4	
Bromomethane	ug/L	1.0 U	20	20	36.9	44.3	184	222	70-130	18	M0
Carbon disulfide	ug/L	1.0 U	20	20	22.8	25.3	114	127	70-130	11	
Carbon tetrachloride	ug/L	1.0 U	20	20	14.5	16.5	72	83	70-130	13	
Chlorobenzene	ug/L	1.0 U	20	20	17.5	16.8	87	84	70-130	4	
Chloroethane	ug/L	1.0 U	20	20	8.8	13.6	44	68	70-130	43	M0,R1
Chloroform	ug/L	1.0 U	20	20	24.1	24.7	120	123	70-130	2	
Chloromethane	ug/L	1.0 U	20	20	28.0	30.7	140	154	70-130	9	M0,R1
cis-1,2-Dichloroethene	ug/L	1.0 U	20	20	19.0	19.2	95	96	70-130	1	
cis-1,3-Dichloropropene	ug/L	1.0 U	20	20	14.8	14.5	74	73	70-130	2	
Dibromochloromethane	ug/L	1.0 U	20	20	15.8	15.4	79	77	70-130	3	
Ethylbenzene	ug/L	17.7	20	20	35.0	33.9	87	81	70-130	3	
m&p-Xylene	ug/L	13.6	40	40	47.7	45.9	85	81	70-130	4	
Methylene Chloride	ug/L	1.0 U	20	20	17.1	18.3	86	91	70-130	6	
o-Xylene	ug/L	0.42J	20	20	17.0	16.4	83	80	70-130	4	
Styrene	ug/L	1.0 U	20	20	16.8	15.8	84	79	70-130	6	
Tetrachloroethene	ug/L	1.0 U	20	20	17.3	18.7	86	94	70-130	8	
Toluene	ug/L	1.1	20	20	18.8	18.0	89	85	70-130	5	
trans-1,2-Dichloroethene	ug/L	1.0 U	20	20	17.1	18.9	86	95	70-130	10	
trans-1,3-Dichloropropene	ug/L	1.0 U	20	20	15.9	15.8	79	79	70-130	.6	
Trichloroethene	ug/L	1.0 U	20	20	17.8	17.2	89	86	70-130	4	
Trichlorofluoromethane	ug/L	1.0 U	20	20	15.5	18.0	77	90	70-130	15	
Vinyl chloride	ug/L	1.0 U	20	20	16.7	19.8	84	99	70-130	17	
1,2-Dichloroethane-d4 (S)	%						99	94	70-130		
4-Bromofluorobenzene (S)	%						98	99	70-130		
Toluene-d8 (S)	%						101	90	70-130		

QUALIFIERS

Project: Essex-Hope 41568652.10000

Pace Project No.: 3030064

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.

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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.

R1 RPD value was outside control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568652.10000

Pace Project No.: 3030064

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3030064001	RW-6D	EPA 8260	MSV/6440		
3030064002	RW-3S	EPA 8260	MSV/6440		
3030064003	RW-2D	EPA 8260	MSV/6440		
3030064004	RW-2S	EPA 8260	MSV/6440		
3030064005	RW-1S	EPA 8260	MSV/6440		
3030064006	TB-01	EPA 8260	MSV/6440		

LEL

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS

Project # 3030064

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

Tracking #: 8672 5538 1392

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

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

Thermometer Used 3 5

Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature 3.1

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 6/25/10

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: <u>WT</u>		
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 <u>RES</u> Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☒ Yes ☐ No ☐ N/A	15. <u>Trip Blank</u>
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: _____

Date: 6/28/10

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)

January 07, 2011

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

RE: Project: Essex-Hope
Pace Project No.: 3039081

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on December 22, 2010. 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,



David A. Pichette for
Timothy Reed
timothy.reed@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 13

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: Essex-Hope

Pace Project No.: 3039081

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 13

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: Essex-Hope

Pace Project No.: 3039081

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3039081001	RW-2D	EPA 8260	EAC	42	PASI-PA
3039081002	RW-2S	EPA 8260	EAC	42	PASI-PA
3039081003	RW-1S	EPA 8260	EAC	42	PASI-PA
3039081004	RW-3S	EPA 8260	EAC	42	PASI-PA
3039081005	TB-01	EPA 8260	EAC	42	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 13

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3039081

Sample: RW-2D		Lab ID: 3039081001	Collected: 12/21/10 14:55	Received: 12/22/10 13:15	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		12/30/10 17:58	67-64-1	
Benzene	9.2	ug/L	1.0	1		12/30/10 17:58	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/30/10 17:58	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/30/10 17:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/30/10 17:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/30/10 17:58	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/30/10 17:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/30/10 17:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/30/10 17:58	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/30/10 17:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/30/10 17:58	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/30/10 17:58	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/30/10 17:58	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/30/10 17:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/30/10 17:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/30/10 17:58	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/30/10 17:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/30/10 17:58	107-06-2	
1,1-Dichloroethene	22.0	ug/L	5.0	1		12/30/10 17:58	75-35-4	
cis-1,2-Dichloroethene	6210	ug/L	250	50		12/30/10 18:22	156-59-2	
trans-1,2-Dichloroethene	89.7	ug/L	5.0	1		12/30/10 17:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/30/10 17:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/30/10 17:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/30/10 17:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/30/10 17:58	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/30/10 17:58	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/30/10 17:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/30/10 17:58	108-10-1	
Styrene	ND	ug/L	5.0	1		12/30/10 17:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/30/10 17:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/30/10 17:58	127-18-4	
Toluene	ND	ug/L	5.0	1		12/30/10 17:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/30/10 17:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/30/10 17:58	79-00-5	
Trichloroethene	2350	ug/L	250	50		12/30/10 18:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/30/10 17:58	75-69-4	
Vinyl chloride	886	ug/L	50.0	50		12/30/10 18:22	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/30/10 17:58	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/30/10 17:58	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		12/30/10 17:58	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130	1		12/30/10 17:58	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		12/30/10 17:58	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3039081

Sample: RW-2S		Lab ID: 3039081002	Collected: 12/21/10 15:00	Received: 12/22/10 13:15	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		12/30/10 18:47	67-64-1	
Benzene	ND	ug/L	1.0	1		12/30/10 18:47	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/30/10 18:47	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/30/10 18:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/30/10 18:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/30/10 18:47	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/30/10 18:47	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/30/10 18:47	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/30/10 18:47	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/30/10 18:47	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/30/10 18:47	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/30/10 18:47	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/30/10 18:47	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/30/10 18:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/30/10 18:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/30/10 18:47	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/30/10 18:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/30/10 18:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/30/10 18:47	75-35-4	
cis-1,2-Dichloroethene	6.5	ug/L	5.0	1		12/30/10 18:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/30/10 18:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/30/10 18:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/30/10 18:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/30/10 18:47	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/30/10 18:47	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/30/10 18:47	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/30/10 18:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/30/10 18:47	108-10-1	
Styrene	ND	ug/L	5.0	1		12/30/10 18:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/30/10 18:47	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/30/10 18:47	127-18-4	
Toluene	ND	ug/L	5.0	1		12/30/10 18:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/30/10 18:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/30/10 18:47	79-00-5	
Trichloroethene	6.3	ug/L	5.0	1		12/30/10 18:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/30/10 18:47	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		12/30/10 18:47	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/30/10 18:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/30/10 18:47	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		12/30/10 18:47	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		12/30/10 18:47	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		12/30/10 18:47	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3039081

Sample: RW-1S		Lab ID: 3039081003	Collected: 12/21/10 15:20	Received: 12/22/10 13:15	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		12/30/10 19:11	67-64-1	
Benzene	ND	ug/L	1.0	1		12/30/10 19:11	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/30/10 19:11	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/30/10 19:11	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/30/10 19:11	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/30/10 19:11	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/30/10 19:11	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/30/10 19:11	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/30/10 19:11	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/30/10 19:11	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/30/10 19:11	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/30/10 19:11	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/30/10 19:11	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/30/10 19:11	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/30/10 19:11	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/30/10 19:11	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/30/10 19:11	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/30/10 19:11	107-06-2	
1,1-Dichloroethene	8.2	ug/L	5.0	1		12/30/10 19:11	75-35-4	
cis-1,2-Dichloroethene	1010	ug/L	100	20		01/03/11 13:46	156-59-2	
trans-1,2-Dichloroethene	6.3	ug/L	5.0	1		12/30/10 19:11	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/30/10 19:11	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/30/10 19:11	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/30/10 19:11	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/30/10 19:11	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/30/10 19:11	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/30/10 19:11	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/30/10 19:11	108-10-1	
Styrene	ND	ug/L	5.0	1		12/30/10 19:11	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/30/10 19:11	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/30/10 19:11	127-18-4	
Toluene	ND	ug/L	5.0	1		12/30/10 19:11	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/30/10 19:11	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/30/10 19:11	79-00-5	
Trichloroethene	801	ug/L	100	20		01/03/11 13:46	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/30/10 19:11	75-69-4	
Vinyl chloride	99.7	ug/L	1.0	1		12/30/10 19:11	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/30/10 19:11	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/30/10 19:11	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130	1		12/30/10 19:11	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		12/30/10 19:11	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		12/30/10 19:11	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3039081

Sample: RW-3S		Lab ID: 3039081004		Collected: 12/21/10 15:25		Received: 12/22/10 13:15		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			12/30/10 19:35	67-64-1	
Benzene	61.7	ug/L	1.0	1			12/30/10 19:35	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1			12/30/10 19:35	75-27-4	
Bromoform	ND	ug/L	5.0	1			12/30/10 19:35	75-25-2	
Bromomethane	ND	ug/L	5.0	1			12/30/10 19:35	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1			12/30/10 19:35	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1			12/30/10 19:35	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1			12/30/10 19:35	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1			12/30/10 19:35	108-90-7	
Chloroethane	ND	ug/L	5.0	1			12/30/10 19:35	75-00-3	
Chloroform	ND	ug/L	5.0	1			12/30/10 19:35	67-66-3	
Chloromethane	ND	ug/L	5.0	1			12/30/10 19:35	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1			12/30/10 19:35	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1			12/30/10 19:35	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1			12/30/10 19:35	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1			12/30/10 19:35	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1			12/30/10 19:35	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1			12/30/10 19:35	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1			12/30/10 19:35	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1			12/30/10 19:35	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1			12/30/10 19:35	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1			12/30/10 19:35	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1			12/30/10 19:35	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1			12/30/10 19:35	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1			12/30/10 19:35	100-41-4	
2-Hexanone	ND	ug/L	10.0	1			12/30/10 19:35	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1			12/30/10 19:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1			12/30/10 19:35	108-10-1	
Styrene	ND	ug/L	5.0	1			12/30/10 19:35	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1			12/30/10 19:35	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1			12/30/10 19:35	127-18-4	
Toluene	ND	ug/L	5.0	1			12/30/10 19:35	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1			12/30/10 19:35	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1			12/30/10 19:35	79-00-5	
Trichloroethene	ND	ug/L	5.0	1			12/30/10 19:35	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1			12/30/10 19:35	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1			12/30/10 19:35	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1			12/30/10 19:35	179601-23-1	
o-Xylene	ND	ug/L	5.0	1			12/30/10 19:35	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1			12/30/10 19:35	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1			12/30/10 19:35	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1			12/30/10 19:35	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3039081

Sample: TB-01		Lab ID: 3039081005	Collected: 12/21/10 00:01	Received: 12/22/10 13:15	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		12/30/10 16:21	67-64-1	
Benzene	ND ug/L		1.0	1		12/30/10 16:21	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		12/30/10 16:21	75-27-4	
Bromoform	ND ug/L		5.0	1		12/30/10 16:21	75-25-2	
Bromomethane	ND ug/L		5.0	1		12/30/10 16:21	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		12/30/10 16:21	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		12/30/10 16:21	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		12/30/10 16:21	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		12/30/10 16:21	108-90-7	
Chloroethane	ND ug/L		5.0	1		12/30/10 16:21	75-00-3	
Chloroform	ND ug/L		5.0	1		12/30/10 16:21	67-66-3	
Chloromethane	ND ug/L		5.0	1		12/30/10 16:21	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		12/30/10 16:21	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		12/30/10 16:21	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		12/30/10 16:21	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		12/30/10 16:21	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		12/30/10 16:21	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		12/30/10 16:21	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		12/30/10 16:21	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		12/30/10 16:21	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		12/30/10 16:21	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		12/30/10 16:21	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		12/30/10 16:21	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		12/30/10 16:21	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		12/30/10 16:21	100-41-4	
2-Hexanone	ND ug/L		10.0	1		12/30/10 16:21	591-78-6	
Methylene Chloride	ND ug/L		5.0	1		12/30/10 16:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		12/30/10 16:21	108-10-1	
Styrene	ND ug/L		5.0	1		12/30/10 16:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		12/30/10 16:21	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		12/30/10 16:21	127-18-4	
Toluene	ND ug/L		5.0	1		12/30/10 16:21	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		12/30/10 16:21	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		12/30/10 16:21	79-00-5	
Trichloroethene	ND ug/L		5.0	1		12/30/10 16:21	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		12/30/10 16:21	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		12/30/10 16:21	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		12/30/10 16:21	179601-23-1	
o-Xylene	ND ug/L		5.0	1		12/30/10 16:21	95-47-6	
4-Bromofluorobenzene (S)	98 %		70-130	1		12/30/10 16:21	460-00-4	
1,2-Dichloroethane-d4 (S)	101 %		70-130	1		12/30/10 16:21	17060-07-0	
Toluene-d8 (S)	97 %		70-130	1		12/30/10 16:21	2037-26-5	

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3039081

QC Batch: MSV/8158 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3039081001, 3039081002, 3039081003, 3039081004, 3039081005

METHOD BLANK: 254083 Matrix: Water
Associated Lab Samples: 3039081001, 3039081002, 3039081003, 3039081004, 3039081005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	12/30/10 11:05	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/30/10 11:05	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/30/10 11:05	
1,1-Dichloroethane	ug/L	ND	5.0	12/30/10 11:05	
1,1-Dichloroethene	ug/L	ND	5.0	12/30/10 11:05	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/30/10 11:05	
1,2-Dichloroethane	ug/L	ND	5.0	12/30/10 11:05	
1,2-Dichloropropane	ug/L	ND	5.0	12/30/10 11:05	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/30/10 11:05	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/30/10 11:05	
2-Butanone (MEK)	ug/L	ND	10.0	12/30/10 11:05	
2-Hexanone	ug/L	ND	10.0	12/30/10 11:05	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/30/10 11:05	
Acetone	ug/L	ND	10.0	12/30/10 11:05	
Benzene	ug/L	ND	1.0	12/30/10 11:05	
Bromodichloromethane	ug/L	ND	5.0	12/30/10 11:05	
Bromoform	ug/L	ND	5.0	12/30/10 11:05	
Bromomethane	ug/L	ND	5.0	12/30/10 11:05	
Carbon disulfide	ug/L	ND	5.0	12/30/10 11:05	
Carbon tetrachloride	ug/L	ND	5.0	12/30/10 11:05	
Chlorobenzene	ug/L	ND	5.0	12/30/10 11:05	
Chloroethane	ug/L	ND	5.0	12/30/10 11:05	
Chloroform	ug/L	ND	5.0	12/30/10 11:05	
Chloromethane	ug/L	ND	5.0	12/30/10 11:05	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/30/10 11:05	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/30/10 11:05	
Dibromochloromethane	ug/L	ND	5.0	12/30/10 11:05	
Ethylbenzene	ug/L	ND	5.0	12/30/10 11:05	
m&p-Xylene	ug/L	ND	5.0	12/30/10 11:05	
Methylene Chloride	ug/L	ND	5.0	12/30/10 11:05	
o-Xylene	ug/L	ND	5.0	12/30/10 11:05	
Styrene	ug/L	ND	5.0	12/30/10 11:05	
Tetrachloroethene	ug/L	ND	5.0	12/30/10 11:05	
Toluene	ug/L	ND	5.0	12/30/10 11:05	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/30/10 11:05	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/30/10 11:05	
Trichloroethene	ug/L	ND	5.0	12/30/10 11:05	
Trichlorofluoromethane	ug/L	ND	5.0	12/30/10 11:05	
Vinyl chloride	ug/L	ND	1.0	12/30/10 11:05	
1,2-Dichloroethane-d4 (S)	%	107	70-130	12/30/10 11:05	
4-Bromofluorobenzene (S)	%	93	70-130	12/30/10 11:05	
Toluene-d8 (S)	%	99	70-130	12/30/10 11:05	

QUALITY CONTROL DATA

Project: Essex-Hope

Pace Project No.: 3039081

LABORATORY CONTROL SAMPLE: 254084

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.5	112	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	15.7	79	70-130	
1,1,2-Trichloroethane	ug/L	20	19.7	98	70-130	
1,1-Dichloroethane	ug/L	20	21.6	108	70-130	
1,1-Dichloroethene	ug/L	20	20.8	104	70-130	
1,2-Dichlorobenzene	ug/L	20	19.5	97	70-130	
1,2-Dichloroethane	ug/L	20	20.9	105	70-130	
1,2-Dichloropropane	ug/L	20	21.4	107	70-130	
1,3-Dichlorobenzene	ug/L	20	19.8	99	70-130	
1,4-Dichlorobenzene	ug/L	20	20.1	101	70-130	
2-Butanone (MEK)	ug/L	20	19.6	98	70-130	
2-Hexanone	ug/L	20	19.4	97	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.8	99	70-130	
Acetone	ug/L	20	23.6	118	70-130	
Benzene	ug/L	20	20.9	105	70-130	
Bromodichloromethane	ug/L	20	21.0	105	70-130	
Bromoform	ug/L	20	20.1	101	70-130	
Bromomethane	ug/L	20	34.1	171	70-130	L1
Carbon disulfide	ug/L	20	23.6	118	70-130	
Carbon tetrachloride	ug/L	20	22.4	112	70-130	
Chlorobenzene	ug/L	20	20.3	101	70-130	
Chloroethane	ug/L	20	24.4	122	70-130	
Chloroform	ug/L	20	21.8	109	70-130	
Chloromethane	ug/L	20	14.5	72	70-130	
cis-1,2-Dichloroethene	ug/L	20	22.3	112	70-130	
cis-1,3-Dichloropropene	ug/L	20	21.0	105	70-130	
Dibromochloromethane	ug/L	20	21.0	105	70-130	
Ethylbenzene	ug/L	20	20.7	104	70-130	
m&p-Xylene	ug/L	40	41.8	104	70-130	
Methylene Chloride	ug/L	20	20.6	103	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	20.3	102	70-130	
Toluene	ug/L	20	20.7	104	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.5	108	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.7	98	70-130	
Trichloroethene	ug/L	20	23.0	115	70-130	
Trichlorofluoromethane	ug/L	20	24.0	120	70-130	
Vinyl chloride	ug/L	20	17.9	90	70-130	
1,2-Dichloroethane-d4 (S)	%			108	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			102	70-130	

QUALITY CONTROL DATA

Project: Essex-Hope

Pace Project No.: 3039081

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 254113 254114											
Parameter	Units	3039069018 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	21.0	98	105	70-130	7	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	15.2	16.3	76	82	70-130	7	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.0	17.3	80	86	70-130	8	
1,1-Dichloroethane	ug/L	ND	20	20	19.1	20.3	96	102	70-130	6	
1,1-Dichloroethene	ug/L	ND	20	20	18.4	19.9	92	100	70-130	8	
1,2-Dichlorobenzene	ug/L	ND	20	20	15.9	15.9	80	79	70-130	.3	
1,2-Dichloroethane	ug/L	ND	20	20	17.0	18.3	85	91	70-130	7	
1,2-Dichloropropane	ug/L	ND	20	20	17.5	19.0	88	95	70-130	8	
1,3-Dichlorobenzene	ug/L	ND	20	20	15.7	15.8	79	79	70-130	.2	
1,4-Dichlorobenzene	ug/L	ND	20	20	16.1	15.8	80	79	70-130	1	
2-Butanone (MEK)	ug/L	ND	20	20	14.4	15.6	72	78	70-130	8	
2-Hexanone	ug/L	ND	20	20	15.7	16.8	78	84	70-130	7	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	15.1	16.1	75	80	70-130	7	
Acetone	ug/L	ND	20	20	16.3	19.4	82	97	70-130	18	
Benzene	ug/L	ND	20	20	17.3	19.2	87	96	70-130	10	
Bromodichloromethane	ug/L	ND	20	20	16.1	17.7	81	88	70-130	9	
Bromoform	ug/L	ND	20	20	15.4	16.1	77	80	70-130	4	
Bromomethane	ug/L	ND	20	20	17.4	19.9	87	100	70-130	13	
Carbon disulfide	ug/L	ND	20	20	22.1	19.5	111	97	70-130	13	
Carbon tetrachloride	ug/L	ND	20	20	18.1	19.1	90	96	70-130	6	
Chlorobenzene	ug/L	ND	20	20	17.1	17.9	86	90	70-130	5	
Chloroethane	ug/L	ND	20	20	27.8	33.4	139	167	70-130	18	M0
Chloroform	ug/L	ND	20	20	18.4	19.3	92	97	70-130	5	
Chloromethane	ug/L	ND	20	20	19.0	20.5	95	103	70-130	8	
cis-1,2-Dichloroethene	ug/L	ND	20	20	19.1	20.2	96	101	70-130	5	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.3	18.5	86	93	70-130	7	
Dibromochloromethane	ug/L	ND	20	20	16.4	17.5	82	88	70-130	6	
Ethylbenzene	ug/L	ND	20	20	17.3	17.5	87	88	70-130	1	
m&p-Xylene	ug/L	ND	40	40	34.3	36.0	86	90	70-130	5	
Methylene Chloride	ug/L	ND	20	20	17.5	18.9	84	92	70-130	8	
o-Xylene	ug/L	ND	20	20	17.3	18.1	86	91	70-130	5	
Styrene	ug/L	ND	20	20	16.5	17.5	82	88	70-130	6	
Tetrachloroethene	ug/L	ND	20	20	17.5	18.1	87	90	70-130	3	
Toluene	ug/L	ND	20	20	17.8	19.1	89	95	70-130	7	
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.7	20.1	89	100	70-130	12	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.2	17.6	81	88	70-130	8	
Trichloroethene	ug/L	ND	20	20	17.6	18.3	88	91	70-130	4	
Trichlorofluoromethane	ug/L	ND	20	20	27.2	30.4	136	152	70-130	11	M0
Vinyl chloride	ug/L	ND	20	20	21.7	24.2	109	121	70-130	11	
1,2-Dichloroethane-d4 (S)	%						96	103	70-130		
4-Bromofluorobenzene (S)	%						99	102	70-130		
Toluene-d8 (S)	%						97	100	70-130		

QUALIFIERS

Project: Essex-Hope
Pace Project No.: 3039081

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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

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.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope

Pace Project No.: 3039081

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3039081001	RW-2D	EPA 8260	MSV/8158		
3039081002	RW-2S	EPA 8260	MSV/8158		
3039081003	RW-1S	EPA 8260	MSV/8158		
3039081004	RW-3S	EPA 8260	MSV/8158		
3039081005	TB-01	EPA 8260	MSV/8158		

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

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

SNB

Client Name: URS

Project # 3039081

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

Tracking #: 80255381484

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 5

Type of Ice: Wet Blue None

☒ Samples on ice, cooling process has begun

Cooler Temperature 8.6

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: Wet 2/23/10

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: <u>AA</u>		
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: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water)	☒ Yes ☐ No	Initial when completed <u>Wet</u> 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: _____

Date: 12/23/10

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)

January 21, 2011

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

RE: Project: Essex-Hope Jamestown
Pace Project No.: 3039616

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on January 07, 2011. 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,



Rachel Christner for
Timothy Reed
timothy.reed@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 9

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: Essex-Hope Jamestown
Pace Project No.: 3039616

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 9

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: Essex-Hope Jamestown

Pace Project No.: 3039616

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3039616001	RW-6D	EPA 8260	JAS	42	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 9

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3039616

Sample: RW-6D		Lab ID: 3039616001	Collected: 01/06/11 11:05	Received: 01/07/11 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	32500	ug/L	1000	100		01/11/11 13:28	67-64-1	
Benzene	98.1	ug/L	1.0	1		01/10/11 18:07	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		01/10/11 18:07	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/10/11 18:07	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/10/11 18:07	74-83-9	
2-Butanone (MEK)	230	ug/L	10.0	1		01/10/11 18:07	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		01/10/11 18:07	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/10/11 18:07	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/10/11 18:07	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/10/11 18:07	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/10/11 18:07	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/10/11 18:07	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		01/10/11 18:07	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/10/11 18:07	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/10/11 18:07	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/10/11 18:07	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/10/11 18:07	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/10/11 18:07	107-06-2	
1,1-Dichloroethene	68.2	ug/L	5.0	1		01/10/11 18:07	75-35-4	
cis-1,2-Dichloroethene	22500	ug/L	500	100		01/11/11 13:28	156-59-2	
trans-1,2-Dichloroethene	272	ug/L	5.0	1		01/10/11 18:07	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/10/11 18:07	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/10/11 18:07	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/10/11 18:07	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/10/11 18:07	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		01/10/11 18:07	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		01/10/11 18:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/10/11 18:07	108-10-1	
Styrene	ND	ug/L	5.0	1		01/10/11 18:07	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/10/11 18:07	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/10/11 18:07	127-18-4	
Toluene	ND	ug/L	5.0	1		01/10/11 18:07	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/10/11 18:07	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/10/11 18:07	79-00-5	
Trichloroethene	1530	ug/L	500	100		01/11/11 13:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/10/11 18:07	75-69-4	
Vinyl chloride	1630	ug/L	100	100		01/11/11 13:28	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		01/10/11 18:07	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		01/10/11 18:07	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		01/10/11 18:07	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		01/10/11 18:07	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		01/10/11 18:07	2037-26-5	

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3039616

QC Batch:	MSV/8239	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	3039616001		

METHOD BLANK:	256572	Matrix:	Water
Associated Lab Samples:	3039616001		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	01/10/11 13:46	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	01/10/11 13:46	
1,1,2-Trichloroethane	ug/L	ND	5.0	01/10/11 13:46	
1,1-Dichloroethane	ug/L	ND	5.0	01/10/11 13:46	
1,1-Dichloroethene	ug/L	ND	5.0	01/10/11 13:46	
1,2-Dichlorobenzene	ug/L	ND	5.0	01/10/11 13:46	
1,2-Dichloroethane	ug/L	ND	5.0	01/10/11 13:46	
1,2-Dichloropropane	ug/L	ND	5.0	01/10/11 13:46	
1,3-Dichlorobenzene	ug/L	ND	5.0	01/10/11 13:46	
1,4-Dichlorobenzene	ug/L	ND	5.0	01/10/11 13:46	
2-Butanone (MEK)	ug/L	ND	10.0	01/10/11 13:46	
2-Hexanone	ug/L	ND	10.0	01/10/11 13:46	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/10/11 13:46	
Acetone	ug/L	ND	10.0	01/10/11 13:46	
Benzene	ug/L	ND	1.0	01/10/11 13:46	
Bromodichloromethane	ug/L	ND	5.0	01/10/11 13:46	
Bromoform	ug/L	ND	5.0	01/10/11 13:46	
Bromomethane	ug/L	ND	5.0	01/10/11 13:46	
Carbon disulfide	ug/L	ND	5.0	01/10/11 13:46	
Carbon tetrachloride	ug/L	ND	5.0	01/10/11 13:46	
Chlorobenzene	ug/L	ND	5.0	01/10/11 13:46	
Chloroethane	ug/L	ND	5.0	01/10/11 13:46	
Chloroform	ug/L	ND	5.0	01/10/11 13:46	
Chloromethane	ug/L	ND	5.0	01/10/11 13:46	
cis-1,2-Dichloroethene	ug/L	ND	5.0	01/10/11 13:46	
cis-1,3-Dichloropropene	ug/L	ND	5.0	01/10/11 13:46	
Dibromochloromethane	ug/L	ND	5.0	01/10/11 13:46	
Ethylbenzene	ug/L	ND	5.0	01/10/11 13:46	
m&p-Xylene	ug/L	ND	5.0	01/10/11 13:46	
Methylene Chloride	ug/L	ND	5.0	01/10/11 13:46	
o-Xylene	ug/L	ND	5.0	01/10/11 13:46	
Styrene	ug/L	ND	5.0	01/10/11 13:46	
Tetrachloroethene	ug/L	ND	5.0	01/10/11 13:46	
Toluene	ug/L	ND	5.0	01/10/11 13:46	
trans-1,2-Dichloroethene	ug/L	ND	5.0	01/10/11 13:46	
trans-1,3-Dichloropropene	ug/L	ND	5.0	01/10/11 13:46	
Trichloroethene	ug/L	ND	5.0	01/10/11 13:46	
Trichlorofluoromethane	ug/L	ND	5.0	01/10/11 13:46	
Vinyl chloride	ug/L	ND	1.0	01/10/11 13:46	
1,2-Dichloroethane-d4 (S)	%	98	70-130	01/10/11 13:46	
4-Bromofluorobenzene (S)	%	96	70-130	01/10/11 13:46	
Toluene-d8 (S)	%	93	70-130	01/10/11 13:46	

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown

Pace Project No.: 3039616

LABORATORY CONTROL SAMPLE: 256573

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.7	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.0	100	70-130	
1,1,2-Trichloroethane	ug/L	20	19.1	96	70-130	
1,1-Dichloroethane	ug/L	20	20.5	102	70-130	
1,1-Dichloroethene	ug/L	20	18.3	91	70-130	
1,2-Dichlorobenzene	ug/L	20	20.4	102	70-130	
1,2-Dichloroethane	ug/L	20	21.4	107	70-130	
1,2-Dichloropropane	ug/L	20	18.4	92	70-130	
1,3-Dichlorobenzene	ug/L	20	20.5	103	70-130	
1,4-Dichlorobenzene	ug/L	20	20.4	102	70-130	
2-Butanone (MEK)	ug/L	20	23.1	115	70-130	
2-Hexanone	ug/L	20	22.0	110	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.6	103	70-130	
Acetone	ug/L	20	23.6	118	70-130	
Benzene	ug/L	20	18.7	94	70-130	
Bromodichloromethane	ug/L	20	18.4	92	70-130	
Bromoform	ug/L	20	19.0	95	70-130	
Bromomethane	ug/L	20	31.0	155	70-130	L3
Carbon disulfide	ug/L	20	18.3	92	70-130	
Carbon tetrachloride	ug/L	20	21.6	108	70-130	
Chlorobenzene	ug/L	20	19.4	97	70-130	
Chloroethane	ug/L	20	18.3	92	70-130	
Chloroform	ug/L	20	20.9	104	70-130	
Chloromethane	ug/L	20	17.6	88	70-130	
cis-1,2-Dichloroethene	ug/L	20	20.5	103	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.5	98	70-130	
Dibromochloromethane	ug/L	20	18.4	92	70-130	
Ethylbenzene	ug/L	20	19.6	98	70-130	
m&p-Xylene	ug/L	40	40.4	101	70-130	
Methylene Chloride	ug/L	20	20.4	102	70-130	
o-Xylene	ug/L	20	19.8	99	70-130	
Styrene	ug/L	20	19.3	97	70-130	
Tetrachloroethene	ug/L	20	19.0	95	70-130	
Toluene	ug/L	20	19.4	97	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.6	98	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.1	95	70-130	
Trichloroethene	ug/L	20	18.7	94	70-130	
Trichlorofluoromethane	ug/L	20	17.9	89	70-130	
Vinyl chloride	ug/L	20	17.9	89	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			93	70-130	

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3039616

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 256641 256642											
Parameter	Units	3039613002 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	20.4	21.5	102	107	70-130	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.6	18.9	88	95	70-130	7	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.3	18.8	91	94	70-130	3	
1,1-Dichloroethane	ug/L	ND	20	20	21.4	21.7	107	109	70-130	1	
1,1-Dichloroethene	ug/L	ND	20	20	19.1	19.4	95	97	70-130	2	
1,2-Dichlorobenzene	ug/L	ND	20	20	17.5	18.6	87	93	70-130	6	
1,2-Dichloroethane	ug/L	ND	20	20	20.4	20.7	102	103	70-130	1	
1,2-Dichloropropane	ug/L	ND	20	20	17.4	18.0	87	90	70-130	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	17.9	18.4	90	92	70-130	3	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.5	19.1	87	95	70-130	9	
2-Butanone (MEK)	ug/L	ND	20	20	21.6	20.6	108	103	70-130	5	
2-Hexanone	ug/L	ND	20	20	20.9	20.4	105	102	70-130	3	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	19.6	18.2	98	91	70-130	7	
Acetone	ug/L	ND	20	20	22.8	22.5	114	113	70-130	1	
Benzene	ug/L	ND	20	20	17.8	18.1	89	91	70-130	2	
Bromodichloromethane	ug/L	ND	20	20	16.0	16.7	80	83	70-130	4	
Bromoform	ug/L	ND	20	20	15.9	16.3	79	82	70-130	3	
Bromomethane	ug/L	ND	20	20	10.2	13.0	51	65	70-130	24	M0
Carbon disulfide	ug/L	ND	20	20	19.3	17.2	97	86	70-130	11	
Carbon tetrachloride	ug/L	ND	20	20	20.2	21.7	101	109	70-130	8	
Chlorobenzene	ug/L	ND	20	20	17.9	18.8	90	94	70-130	5	
Chloroethane	ug/L	ND	20	20	22.4	23.6	112	118	70-130	5	
Chloroform	ug/L	ND	20	20	20.8	20.9	104	105	70-130	.7	
Chloromethane	ug/L	ND	20	20	18.1	18.7	90	94	70-130	3	
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.4	22.3	107	112	70-130	4	
cis-1,3-Dichloropropene	ug/L	ND	20	20	16.9	17.8	85	89	70-130	5	
Dibromochloromethane	ug/L	ND	20	20	16.0	16.3	80	82	70-130	2	
Ethylbenzene	ug/L	ND	20	20	17.7	19.2	89	96	70-130	8	
m&p-Xylene	ug/L	ND	40	40	37.4	39.1	93	98	70-130	5	
Methylene Chloride	ug/L	ND	20	20	20.5	20.8	103	104	70-130	1	
o-Xylene	ug/L	ND	20	20	18.6	18.6	93	93	70-130	.3	
Styrene	ug/L	ND	20	20	17.8	18.5	89	92	70-130	4	
Tetrachloroethene	ug/L	ND	20	20	17.9	18.3	89	91	70-130	2	
Toluene	ug/L	ND	20	20	18.0	18.7	90	93	70-130	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.0	20.7	100	104	70-130	4	
trans-1,3-Dichloropropene	ug/L	ND	20	20	16.8	17.0	84	85	70-130	1	
Trichloroethene	ug/L	2.3	20	20	19.9	20.6	88	92	70-130	4	
Trichlorofluoromethane	ug/L	ND	20	20	22.4	23.5	112	118	70-130	5	
Vinyl chloride	ug/L	ND	20	20	21.0	22.1	105	111	70-130	5	
1,2-Dichloroethane-d4 (S)	%						104	102	70-130		
4-Bromofluorobenzene (S)	%						94	101	70-130		
Toluene-d8 (S)	%						89	91	70-130		

QUALIFIERS

Project: Essex-Hope Jamestown
Pace Project No.: 3039616

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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

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.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope Jamestown

Pace Project No.: 3039616

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3039616001	RW-6D	EPA 8260	MSV/8239		



Sample Condition Upon Receipt

LEV

Client Name: URS

Project # 30391616

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

Tracking #: 8072 5538 1500

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 5

Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature 2.1

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: RES 1/7/11

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: <u>WT</u>		
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 <u>RES</u> 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: [Signature]

Date: 1/7/11

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

2010 ANNUAL PMP MONITORING WELL DATA

October 13, 2010

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

RE: Project: Essex-Hope Jamestown
Pace Project No.: 3034628

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on September 29, 2010. 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,



David A. Pichette for
Timothy Reed
timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Accounts Payable, URS Corporation

REPORT OF LABORATORY ANALYSIS

Page 1 of 15

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: Essex-Hope Jamestown

Pace Project No.: 3034628

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 15

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: Essex-Hope Jamestown

Pace Project No.: 3034628

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3034628001	MW-25D	EPA 8260	MAK	42	PASI-PA
3034628002	MW-25S	EPA 8260	MAK	42	PASI-PA
3034628003	MW-15D	EPA 8260	MAK	42	PASI-PA
3034628004	MW-15S	EPA 8260	MAK	42	PASI-PA
3034628005	MW-14D	EPA 8260	MAK	42	PASI-PA
3034628006	MW-14S	EPA 8260	MAK	42	PASI-PA
3034628007	MW-2	EPA 8260	MAK	42	PASI-PA
3034628008	TB-01	EPA 8260	MAK	42	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 15

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown

Pace Project No.: 3034628

Sample: MW-25D		Lab ID: 3034628001		Collected: 09/28/10 09:00		Received: 09/29/10 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			10/04/10 17:42	67-64-1		
Benzene	ND ug/L	1.0	1			10/04/10 17:42	71-43-2		
Bromodichloromethane	ND ug/L	5.0	1			10/04/10 17:42	75-27-4		
Bromoform	ND ug/L	5.0	1			10/04/10 17:42	75-25-2		
Bromomethane	ND ug/L	5.0	1			10/04/10 17:42	74-83-9		
2-Butanone (MEK)	ND ug/L	10.0	1			10/04/10 17:42	78-93-3		
Carbon disulfide	ND ug/L	5.0	1			10/04/10 17:42	75-15-0		
Carbon tetrachloride	ND ug/L	5.0	1			10/04/10 17:42	56-23-5		
Chlorobenzene	ND ug/L	5.0	1			10/04/10 17:42	108-90-7		
Chloroethane	ND ug/L	5.0	1			10/04/10 17:42	75-00-3		
Chloroform	ND ug/L	5.0	1			10/04/10 17:42	67-66-3		
Chloromethane	ND ug/L	5.0	1			10/04/10 17:42	74-87-3		
Dibromochloromethane	ND ug/L	5.0	1			10/04/10 17:42	124-48-1		
1,2-Dichlorobenzene	ND ug/L	5.0	1			10/04/10 17:42	95-50-1		
1,3-Dichlorobenzene	ND ug/L	5.0	1			10/04/10 17:42	541-73-1		
1,4-Dichlorobenzene	ND ug/L	5.0	1			10/04/10 17:42	106-46-7		
1,1-Dichloroethane	ND ug/L	5.0	1			10/04/10 17:42	75-34-3		
1,2-Dichloroethane	ND ug/L	5.0	1			10/04/10 17:42	107-06-2		
1,1-Dichloroethene	ND ug/L	5.0	1			10/04/10 17:42	75-35-4		
cis-1,2-Dichloroethene	ND ug/L	5.0	1			10/04/10 17:42	156-59-2		
trans-1,2-Dichloroethene	ND ug/L	5.0	1			10/04/10 17:42	156-60-5		
1,2-Dichloropropane	ND ug/L	5.0	1			10/04/10 17:42	78-87-5		
cis-1,3-Dichloropropene	ND ug/L	5.0	1			10/04/10 17:42	10061-01-5		
trans-1,3-Dichloropropene	ND ug/L	5.0	1			10/04/10 17:42	10061-02-6		
Ethylbenzene	ND ug/L	5.0	1			10/04/10 17:42	100-41-4		
2-Hexanone	ND ug/L	10.0	1			10/04/10 17:42	591-78-6		
Methylene Chloride	ND ug/L	5.0	1			10/04/10 17:42	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND ug/L	10.0	1			10/04/10 17:42	108-10-1		
Styrene	ND ug/L	5.0	1			10/04/10 17:42	100-42-5		
1,1,2,2-Tetrachloroethane	ND ug/L	5.0	1			10/04/10 17:42	79-34-5		
Tetrachloroethene	ND ug/L	5.0	1			10/04/10 17:42	127-18-4		
Toluene	ND ug/L	5.0	1			10/04/10 17:42	108-88-3		
1,1,1-Trichloroethane	ND ug/L	5.0	1			10/04/10 17:42	71-55-6		
1,1,2-Trichloroethane	ND ug/L	5.0	1			10/04/10 17:42	79-00-5		
Trichloroethene	ND ug/L	5.0	1			10/04/10 17:42	79-01-6		
Trichlorofluoromethane	ND ug/L	5.0	1			10/04/10 17:42	75-69-4		
Vinyl chloride	ND ug/L	1.0	1			10/04/10 17:42	75-01-4		
m&p-Xylene	ND ug/L	5.0	1			10/04/10 17:42	179601-23-1		
o-Xylene	ND ug/L	5.0	1			10/04/10 17:42	95-47-6		
4-Bromofluorobenzene (S)	95 %	70-130	1			10/04/10 17:42	460-00-4		
1,2-Dichloroethane-d4 (S)	98 %	70-130	1			10/04/10 17:42	17060-07-0		
Toluene-d8 (S)	92 %	70-130	1			10/04/10 17:42	2037-26-5		

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3034628

Sample: MW-25S		Lab ID: 3034628002		Collected: 09/28/10 09:15		Received: 09/29/10 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			10/04/10 18:08	67-64-1	
Benzene	ND	ug/L	1.0	1			10/04/10 18:08	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1			10/04/10 18:08	75-27-4	
Bromoform	ND	ug/L	5.0	1			10/04/10 18:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1			10/04/10 18:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1			10/04/10 18:08	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1			10/04/10 18:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1			10/04/10 18:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1			10/04/10 18:08	108-90-7	
Chloroethane	ND	ug/L	5.0	1			10/04/10 18:08	75-00-3	
Chloroform	ND	ug/L	5.0	1			10/04/10 18:08	67-66-3	
Chloromethane	ND	ug/L	5.0	1			10/04/10 18:08	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1			10/04/10 18:08	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1			10/04/10 18:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1			10/04/10 18:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1			10/04/10 18:08	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1			10/04/10 18:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1			10/04/10 18:08	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1			10/04/10 18:08	75-35-4	
cis-1,2-Dichloroethene	39.8	ug/L	5.0	1			10/04/10 18:08	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1			10/04/10 18:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1			10/04/10 18:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1			10/04/10 18:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1			10/04/10 18:08	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1			10/04/10 18:08	100-41-4	
2-Hexanone	ND	ug/L	10.0	1			10/04/10 18:08	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1			10/04/10 18:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1			10/04/10 18:08	108-10-1	
Styrene	ND	ug/L	5.0	1			10/04/10 18:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1			10/04/10 18:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1			10/04/10 18:08	127-18-4	
Toluene	ND	ug/L	5.0	1			10/04/10 18:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1			10/04/10 18:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1			10/04/10 18:08	79-00-5	
Trichloroethene	258	ug/L	5.0	1			10/04/10 18:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1			10/04/10 18:08	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1			10/04/10 18:08	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1			10/04/10 18:08	179601-23-1	
o-Xylene	ND	ug/L	5.0	1			10/04/10 18:08	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1			10/04/10 18:08	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1			10/04/10 18:08	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1			10/04/10 18:08	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3034628

Sample: MW-15D		Lab ID: 3034628003		Collected: 09/28/10 09:45		Received: 09/29/10 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			10/04/10 18:34	67-64-1	
Benzene	2.6	ug/L	1.0	1			10/04/10 18:34	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1			10/04/10 18:34	75-27-4	
Bromoform	ND	ug/L	5.0	1			10/04/10 18:34	75-25-2	
Bromomethane	ND	ug/L	5.0	1			10/04/10 18:34	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1			10/04/10 18:34	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1			10/04/10 18:34	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1			10/04/10 18:34	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1			10/04/10 18:34	108-90-7	
Chloroethane	ND	ug/L	5.0	1			10/04/10 18:34	75-00-3	
Chloroform	ND	ug/L	5.0	1			10/04/10 18:34	67-66-3	
Chloromethane	ND	ug/L	5.0	1			10/04/10 18:34	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1			10/04/10 18:34	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1			10/04/10 18:34	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1			10/04/10 18:34	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1			10/04/10 18:34	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1			10/04/10 18:34	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1			10/04/10 18:34	107-06-2	
1,1-Dichloroethene	111	ug/L	5.0	1			10/04/10 18:34	75-35-4	
cis-1,2-Dichloroethene	23700	ug/L	1000	200			10/04/10 19:00	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1000	200			10/04/10 19:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1			10/04/10 18:34	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1			10/04/10 18:34	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1			10/04/10 18:34	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1			10/04/10 18:34	100-41-4	
2-Hexanone	ND	ug/L	10.0	1			10/04/10 18:34	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1			10/04/10 18:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1			10/04/10 18:34	108-10-1	
Styrene	ND	ug/L	5.0	1			10/04/10 18:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1			10/04/10 18:34	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1			10/04/10 18:34	127-18-4	
Toluene	ND	ug/L	5.0	1			10/04/10 18:34	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1			10/04/10 18:34	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1			10/04/10 18:34	79-00-5	
Trichloroethene	15200	ug/L	1000	200			10/04/10 19:00	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1			10/04/10 18:34	75-69-4	
Vinyl chloride	716	ug/L	200	200			10/04/10 19:00	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1			10/04/10 18:34	179601-23-1	
o-Xylene	ND	ug/L	5.0	1			10/04/10 18:34	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1			10/04/10 18:34	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1			10/04/10 18:34	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1			10/04/10 18:34	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown

Pace Project No.: 3034628

Sample: MW-15S		Lab ID: 3034628004		Collected: 09/28/10 09:55		Received: 09/29/10 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			10/04/10 19:26	67-64-1	
Benzene	ND	ug/L	1.0	1			10/04/10 19:26	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1			10/04/10 19:26	75-27-4	
Bromoform	ND	ug/L	5.0	1			10/04/10 19:26	75-25-2	
Bromomethane	ND	ug/L	5.0	1			10/04/10 19:26	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1			10/04/10 19:26	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1			10/04/10 19:26	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1			10/04/10 19:26	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1			10/04/10 19:26	108-90-7	
Chloroethane	ND	ug/L	5.0	1			10/04/10 19:26	75-00-3	
Chloroform	ND	ug/L	5.0	1			10/04/10 19:26	67-66-3	
Chloromethane	ND	ug/L	5.0	1			10/04/10 19:26	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1			10/04/10 19:26	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1			10/04/10 19:26	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1			10/04/10 19:26	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1			10/04/10 19:26	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1			10/04/10 19:26	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1			10/04/10 19:26	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1			10/04/10 19:26	75-35-4	
cis-1,2-Dichloroethene	9.0	ug/L	5.0	1			10/04/10 19:26	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1			10/04/10 19:26	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1			10/04/10 19:26	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1			10/04/10 19:26	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1			10/04/10 19:26	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1			10/04/10 19:26	100-41-4	
2-Hexanone	ND	ug/L	10.0	1			10/04/10 19:26	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1			10/04/10 19:26	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1			10/04/10 19:26	108-10-1	
Styrene	ND	ug/L	5.0	1			10/04/10 19:26	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1			10/04/10 19:26	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1			10/04/10 19:26	127-18-4	
Toluene	ND	ug/L	5.0	1			10/04/10 19:26	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1			10/04/10 19:26	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1			10/04/10 19:26	79-00-5	
Trichloroethene	24.4	ug/L	5.0	1			10/04/10 19:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1			10/04/10 19:26	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1			10/04/10 19:26	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1			10/04/10 19:26	179601-23-1	
o-Xylene	ND	ug/L	5.0	1			10/04/10 19:26	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1			10/04/10 19:26	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1			10/04/10 19:26	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1			10/04/10 19:26	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3034628

Sample: MW-14D		Lab ID: 3034628005		Collected: 09/28/10 10:20		Received: 09/29/10 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		10/04/10 19:52	67-64-1		
Benzene	ND	ug/L	1.0	1		10/04/10 19:52	71-43-2		
Bromodichloromethane	ND	ug/L	5.0	1		10/04/10 19:52	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/04/10 19:52	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/04/10 19:52	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		10/04/10 19:52	78-93-3		
Carbon disulfide	ND	ug/L	5.0	1		10/04/10 19:52	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/04/10 19:52	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/04/10 19:52	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/04/10 19:52	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/04/10 19:52	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/04/10 19:52	74-87-3		
Dibromochloromethane	ND	ug/L	5.0	1		10/04/10 19:52	124-48-1		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/04/10 19:52	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/04/10 19:52	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/04/10 19:52	106-46-7		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/04/10 19:52	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/04/10 19:52	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/04/10 19:52	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/10 19:52	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/10 19:52	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/04/10 19:52	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/10 19:52	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/10 19:52	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/04/10 19:52	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		10/04/10 19:52	591-78-6		
Methylene Chloride	ND	ug/L	5.0	1		10/04/10 19:52	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/04/10 19:52	108-10-1		
Styrene	ND	ug/L	5.0	1		10/04/10 19:52	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/10 19:52	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/04/10 19:52	127-18-4		
Toluene	ND	ug/L	5.0	1		10/04/10 19:52	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/04/10 19:52	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/04/10 19:52	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/04/10 19:52	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/04/10 19:52	75-69-4		
Vinyl chloride	5.8	ug/L	1.0	1		10/04/10 19:52	75-01-4		
m&p-Xylene	ND	ug/L	5.0	1		10/04/10 19:52	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		10/04/10 19:52	95-47-6		
4-Bromofluorobenzene (S)	95	%	70-130	1		10/04/10 19:52	460-00-4		
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		10/04/10 19:52	17060-07-0		
Toluene-d8 (S)	96	%	70-130	1		10/04/10 19:52	2037-26-5		

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3034628

Sample: MW-14S		Lab ID: 3034628006	Collected: 09/28/10 10:40	Received: 09/29/10 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		10/04/10 20:18	67-64-1	
Benzene	ND	ug/L	1.0	1		10/04/10 20:18	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/04/10 20:18	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/04/10 20:18	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/04/10 20:18	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/04/10 20:18	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/04/10 20:18	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/04/10 20:18	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/04/10 20:18	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/04/10 20:18	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/04/10 20:18	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/04/10 20:18	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/04/10 20:18	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/04/10 20:18	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/04/10 20:18	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/04/10 20:18	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/04/10 20:18	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/04/10 20:18	107-06-2	
1,1-Dichloroethene	11.6	ug/L	5.0	1		10/04/10 20:18	75-35-4	
cis-1,2-Dichloroethene	917	ug/L	100	20		10/05/10 14:49	156-59-2	
trans-1,2-Dichloroethene	13.7	ug/L	5.0	1		10/04/10 20:18	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/04/10 20:18	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/10 20:18	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/10 20:18	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/04/10 20:18	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/04/10 20:18	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/04/10 20:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/04/10 20:18	108-10-1	
Styrene	ND	ug/L	5.0	1		10/04/10 20:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/10 20:18	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/04/10 20:18	127-18-4	
Toluene	ND	ug/L	5.0	1		10/04/10 20:18	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/04/10 20:18	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/04/10 20:18	79-00-5	
Trichloroethene	826	ug/L	100	20		10/05/10 14:49	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/04/10 20:18	75-69-4	
Vinyl chloride	39.7	ug/L	1.0	1		10/04/10 20:18	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/04/10 20:18	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/04/10 20:18	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		10/04/10 20:18	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		10/04/10 20:18	17060-07-0	
Toluene-d8 (S)	93	%	70-130	1		10/04/10 20:18	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3034628

Sample: MW-2		Lab ID: 3034628007		Collected: 09/28/10 11:05		Received: 09/29/10 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		10/04/10 20:44	67-64-1		
Benzene	ND	ug/L	1.0	1		10/04/10 20:44	71-43-2		
Bromodichloromethane	ND	ug/L	5.0	1		10/04/10 20:44	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/04/10 20:44	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/04/10 20:44	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		10/04/10 20:44	78-93-3		
Carbon disulfide	ND	ug/L	5.0	1		10/04/10 20:44	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/04/10 20:44	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/04/10 20:44	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/04/10 20:44	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/04/10 20:44	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/04/10 20:44	74-87-3		
Dibromochloromethane	ND	ug/L	5.0	1		10/04/10 20:44	124-48-1		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/04/10 20:44	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/04/10 20:44	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/04/10 20:44	106-46-7		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/04/10 20:44	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/04/10 20:44	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/04/10 20:44	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/10 20:44	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/10 20:44	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/04/10 20:44	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/10 20:44	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/10 20:44	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/04/10 20:44	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		10/04/10 20:44	591-78-6		
Methylene Chloride	ND	ug/L	5.0	1		10/04/10 20:44	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/04/10 20:44	108-10-1		
Styrene	ND	ug/L	5.0	1		10/04/10 20:44	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/10 20:44	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/04/10 20:44	127-18-4		
Toluene	ND	ug/L	5.0	1		10/04/10 20:44	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/04/10 20:44	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/04/10 20:44	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/04/10 20:44	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/04/10 20:44	75-69-4		
Vinyl chloride	ND	ug/L	1.0	1		10/04/10 20:44	75-01-4		
m&p-Xylene	ND	ug/L	5.0	1		10/04/10 20:44	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		10/04/10 20:44	95-47-6		
4-Bromofluorobenzene (S)	96	%	70-130	1		10/04/10 20:44	460-00-4		
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/04/10 20:44	17060-07-0		
Toluene-d8 (S)	93	%	70-130	1		10/04/10 20:44	2037-26-5		

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3034628

Sample: TB-01		Lab ID: 3034628008	Collected: 09/28/10 00:01	Received: 09/29/10 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		10/04/10 21:10	67-64-1	
Benzene	ND ug/L		1.0	1		10/04/10 21:10	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		10/04/10 21:10	75-27-4	
Bromoform	ND ug/L		5.0	1		10/04/10 21:10	75-25-2	
Bromomethane	ND ug/L		5.0	1		10/04/10 21:10	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		10/04/10 21:10	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		10/04/10 21:10	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		10/04/10 21:10	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		10/04/10 21:10	108-90-7	
Chloroethane	ND ug/L		5.0	1		10/04/10 21:10	75-00-3	
Chloroform	ND ug/L		5.0	1		10/04/10 21:10	67-66-3	
Chloromethane	ND ug/L		5.0	1		10/04/10 21:10	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		10/04/10 21:10	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		10/04/10 21:10	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		10/04/10 21:10	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		10/04/10 21:10	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		10/04/10 21:10	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		10/04/10 21:10	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		10/04/10 21:10	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		10/04/10 21:10	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		10/04/10 21:10	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		10/04/10 21:10	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		10/04/10 21:10	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		10/04/10 21:10	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		10/04/10 21:10	100-41-4	
2-Hexanone	ND ug/L		10.0	1		10/04/10 21:10	591-78-6	
Methylene Chloride	ND ug/L		5.0	1		10/04/10 21:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		10/04/10 21:10	108-10-1	
Styrene	ND ug/L		5.0	1		10/04/10 21:10	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		10/04/10 21:10	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		10/04/10 21:10	127-18-4	
Toluene	ND ug/L		5.0	1		10/04/10 21:10	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		10/04/10 21:10	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		10/04/10 21:10	79-00-5	
Trichloroethene	ND ug/L		5.0	1		10/04/10 21:10	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		10/04/10 21:10	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		10/04/10 21:10	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		10/04/10 21:10	179601-23-1	
o-Xylene	ND ug/L		5.0	1		10/04/10 21:10	95-47-6	
4-Bromofluorobenzene (S)	95 %		70-130	1		10/04/10 21:10	460-00-4	
1,2-Dichloroethane-d4 (S)	99 %		70-130	1		10/04/10 21:10	17060-07-0	
Toluene-d8 (S)	92 %		70-130	1		10/04/10 21:10	2037-26-5	

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown

Pace Project No.: 3034628

QC Batch:	MSV/7313	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples: 3034628001, 3034628002, 3034628003, 3034628004, 3034628005, 3034628006, 3034628007, 3034628008			

METHOD BLANK:	222579	Matrix:	Water
Associated Lab Samples: 3034628001, 3034628002, 3034628003, 3034628004, 3034628005, 3034628006, 3034628007, 3034628008			

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/04/10 14:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/04/10 14:14	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/04/10 14:14	
1,1-Dichloroethane	ug/L	ND	5.0	10/04/10 14:14	
1,1-Dichloroethene	ug/L	ND	5.0	10/04/10 14:14	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/04/10 14:14	
1,2-Dichloroethane	ug/L	ND	5.0	10/04/10 14:14	
1,2-Dichloropropane	ug/L	ND	5.0	10/04/10 14:14	
1,3-Dichlorobenzene	ug/L	ND	5.0	10/04/10 14:14	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/04/10 14:14	
2-Butanone (MEK)	ug/L	ND	10.0	10/04/10 14:14	
2-Hexanone	ug/L	ND	10.0	10/04/10 14:14	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/04/10 14:14	
Acetone	ug/L	ND	10.0	10/04/10 14:14	
Benzene	ug/L	ND	1.0	10/04/10 14:14	
Bromodichloromethane	ug/L	ND	5.0	10/04/10 14:14	
Bromoform	ug/L	ND	5.0	10/04/10 14:14	
Bromomethane	ug/L	ND	5.0	10/04/10 14:14	
Carbon disulfide	ug/L	ND	5.0	10/04/10 14:14	
Carbon tetrachloride	ug/L	ND	5.0	10/04/10 14:14	
Chlorobenzene	ug/L	ND	5.0	10/04/10 14:14	
Chloroethane	ug/L	ND	5.0	10/04/10 14:14	
Chloroform	ug/L	ND	5.0	10/04/10 14:14	
Chloromethane	ug/L	ND	5.0	10/04/10 14:14	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/04/10 14:14	
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/04/10 14:14	
Dibromochloromethane	ug/L	ND	5.0	10/04/10 14:14	
Ethylbenzene	ug/L	ND	5.0	10/04/10 14:14	
m&p-Xylene	ug/L	ND	5.0	10/04/10 14:14	
Methylene Chloride	ug/L	ND	5.0	10/04/10 14:14	
o-Xylene	ug/L	ND	5.0	10/04/10 14:14	
Styrene	ug/L	ND	5.0	10/04/10 14:14	
Tetrachloroethene	ug/L	ND	5.0	10/04/10 14:14	
Toluene	ug/L	ND	5.0	10/04/10 14:14	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/04/10 14:14	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/04/10 14:14	
Trichloroethene	ug/L	ND	5.0	10/04/10 14:14	
Trichlorofluoromethane	ug/L	ND	5.0	10/04/10 14:14	
Vinyl chloride	ug/L	ND	1.0	10/04/10 14:14	
1,2-Dichloroethane-d4 (S)	%	99	70-130	10/04/10 14:14	
4-Bromofluorobenzene (S)	%	99	70-130	10/04/10 14:14	
Toluene-d8 (S)	%	98	70-130	10/04/10 14:14	

Date: 10/13/2010 02:45 PM

REPORT OF LABORATORY ANALYSIS

Page 12 of 15

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: Essex-Hope Jamestown

Pace Project No.: 3034628

LABORATORY CONTROL SAMPLE: 222580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.8	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	95	70-130	
1,1,2-Trichloroethane	ug/L	20	20.4	102	70-130	
1,1-Dichloroethane	ug/L	20	21.7	109	70-130	
1,1-Dichloroethene	ug/L	20	16.5	82	70-130	
1,2-Dichlorobenzene	ug/L	20	20.4	102	70-130	
1,2-Dichloroethane	ug/L	20	20.8	104	70-130	
1,2-Dichloropropane	ug/L	20	20.5	102	70-130	
1,3-Dichlorobenzene	ug/L	20	20.5	103	70-130	
1,4-Dichlorobenzene	ug/L	20	20.6	103	70-130	
2-Butanone (MEK)	ug/L	20	21.2	106	70-130	
2-Hexanone	ug/L	20	21.4	107	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.0	100	70-130	
Acetone	ug/L	20	23.7	118	70-130	
Benzene	ug/L	20	21.9	110	70-130	
Bromodichloromethane	ug/L	20	19.5	97	70-130	
Bromoform	ug/L	20	17.2	86	70-130	
Bromomethane	ug/L	20	38.7	194	70-130	L1
Carbon disulfide	ug/L	20	15.1	76	70-130	
Carbon tetrachloride	ug/L	20	20.8	104	70-130	
Chlorobenzene	ug/L	20	20.8	104	70-130	
Chloroethane	ug/L	20	19.9	100	70-130	
Chloroform	ug/L	20	20.6	103	70-130	
Chloromethane	ug/L	20	19.9	99	70-130	
cis-1,2-Dichloroethene	ug/L	20	21.8	109	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.7	98	70-130	
Dibromochloromethane	ug/L	20	18.3	91	70-130	
Ethylbenzene	ug/L	20	21.1	105	70-130	
m&p-Xylene	ug/L	40	44.0	110	70-130	
Methylene Chloride	ug/L	20	20.6	103	70-130	
o-Xylene	ug/L	20	21.1	106	70-130	
Styrene	ug/L	20	20.5	102	70-130	
Tetrachloroethene	ug/L	20	21.0	105	70-130	
Toluene	ug/L	20	21.8	109	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.8	109	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.8	99	70-130	
Trichloroethene	ug/L	20	20.6	103	70-130	
Trichlorofluoromethane	ug/L	20	20.7	103	70-130	
Vinyl chloride	ug/L	20	20.6	103	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			100	70-130	

QUALIFIERS

Project: Essex-Hope Jamestown
Pace Project No.: 3034628

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.

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

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.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope Jamestown

Pace Project No.: 3034628

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3034628001	MW-25D	EPA 8260	MSV/7313		
3034628002	MW-25S	EPA 8260	MSV/7313		
3034628003	MW-15D	EPA 8260	MSV/7313		
3034628004	MW-15S	EPA 8260	MSV/7313		
3034628005	MW-14D	EPA 8260	MSV/7313		
3034628006	MW-14S	EPA 8260	MSV/7313		
3034628007	MW-2	EPA 8260	MSV/7313		
3034628008	TB-01	EPA 8260	MSV/7313		



Sample Condition Upon Receipt

2R

Client Name: URS

Project # 3034628

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

Tracking #: 86725538 1430

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

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

Thermometer Used 3 5

Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature 3.0

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: SMB 9/29/10

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 SMB

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:

Samuel Schuster

Date: 9/30/10

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)

October 14, 2010

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

RE: Project: Essex/Hope Jamestown
Pace Project No.: 3034709

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on September 30, 2010. 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,



Timothy Reed

timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Accounts Payable, URS Corporation

REPORT OF LABORATORY ANALYSIS

Page 1 of 18

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: Essex/Hope Jamestown

Pace Project No.: 3034709

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 18

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: Essex/Hope Jamestown

Pace Project No.: 3034709

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3034709001	MW-6	EPA 8260	JHC	42	PASI-PA
3034709002	MW-8	EPA 8260	JHC	42	PASI-PA
3034709003	MW-7S	EPA 8260	JHC	42	PASI-PA
3034709004	MW-7D	EPA 8260	JHC	42	PASI-PA
3034709005	MW-20	EPA 8260	JHC	42	PASI-PA
3034709006	VP-6D	EPA 8260	JHC	42	PASI-PA
3034709007	MW-22D	EPA 8260	JHC	42	PASI-PA
3034709008	MW-21D	EPA 8260	JHC	42	PASI-PA
3034709009	MW-19D	EPA 8260	JHC	42	PASI-PA
3034709010	TB-02	EPA 8260	JHC	42	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 18

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown
Pace Project No.: 3034709

Sample: MW-6		Lab ID: 3034709001		Collected: 09/29/10 09:05		Received: 09/30/10 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		10/06/10 15:03	67-64-1		
Benzene	ND	ug/L	1.0	1		10/06/10 15:03	71-43-2		
Bromodichloromethane	ND	ug/L	5.0	1		10/06/10 15:03	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/06/10 15:03	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/06/10 15:03	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		10/06/10 15:03	78-93-3		
Carbon disulfide	ND	ug/L	5.0	1		10/06/10 15:03	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/06/10 15:03	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/06/10 15:03	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/06/10 15:03	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/06/10 15:03	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/06/10 15:03	74-87-3		
Dibromochloromethane	ND	ug/L	5.0	1		10/06/10 15:03	124-48-1		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/06/10 15:03	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/06/10 15:03	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/06/10 15:03	106-46-7		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/06/10 15:03	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/10 15:03	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/06/10 15:03	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/06/10 15:03	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/06/10 15:03	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/06/10 15:03	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/10 15:03	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/10 15:03	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/06/10 15:03	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		10/06/10 15:03	591-78-6		
Methylene Chloride	ND	ug/L	5.0	1		10/06/10 15:03	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/06/10 15:03	108-10-1		
Styrene	ND	ug/L	5.0	1		10/06/10 15:03	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/06/10 15:03	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/06/10 15:03	127-18-4		
Toluene	ND	ug/L	5.0	1		10/06/10 15:03	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/06/10 15:03	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/06/10 15:03	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/06/10 15:03	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/06/10 15:03	75-69-4		
Vinyl chloride	ND	ug/L	1.0	1		10/06/10 15:03	75-01-4		
m&p-Xylene	ND	ug/L	5.0	1		10/06/10 15:03	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		10/06/10 15:03	95-47-6		
4-Bromofluorobenzene (S)	95	%	70-130	1		10/06/10 15:03	460-00-4		
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		10/06/10 15:03	17060-07-0		
Toluene-d8 (S)	97	%	70-130	1		10/06/10 15:03	2037-26-5		

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown

Pace Project No.: 3034709

Sample: MW-8		Lab ID: 3034709002		Collected: 09/29/10 09:20		Received: 09/30/10 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			10/06/10 15:29	67-64-1	
Benzene	ND	ug/L	1.0	1			10/06/10 15:29	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1			10/06/10 15:29	75-27-4	
Bromoform	ND	ug/L	5.0	1			10/06/10 15:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1			10/06/10 15:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1			10/06/10 15:29	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1			10/06/10 15:29	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1			10/06/10 15:29	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1			10/06/10 15:29	108-90-7	
Chloroethane	ND	ug/L	5.0	1			10/06/10 15:29	75-00-3	
Chloroform	ND	ug/L	5.0	1			10/06/10 15:29	67-66-3	
Chloromethane	ND	ug/L	5.0	1			10/06/10 15:29	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1			10/06/10 15:29	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1			10/06/10 15:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1			10/06/10 15:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1			10/06/10 15:29	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1			10/06/10 15:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1			10/06/10 15:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1			10/06/10 15:29	75-35-4	
cis-1,2-Dichloroethene	94.3	ug/L	5.0	1			10/06/10 15:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1			10/06/10 15:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1			10/06/10 15:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1			10/06/10 15:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1			10/06/10 15:29	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1			10/06/10 15:29	100-41-4	
2-Hexanone	ND	ug/L	10.0	1			10/06/10 15:29	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1			10/06/10 15:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1			10/06/10 15:29	108-10-1	
Styrene	ND	ug/L	5.0	1			10/06/10 15:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1			10/06/10 15:29	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1			10/06/10 15:29	127-18-4	
Toluene	ND	ug/L	5.0	1			10/06/10 15:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1			10/06/10 15:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1			10/06/10 15:29	79-00-5	
Trichloroethene	ND	ug/L	5.0	1			10/06/10 15:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1			10/06/10 15:29	75-69-4	
Vinyl chloride	12.7	ug/L	1.0	1			10/06/10 15:29	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1			10/06/10 15:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	1			10/06/10 15:29	95-47-6	
4-Bromofluorobenzene (S)	94	%	70-130	1			10/06/10 15:29	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130	1			10/06/10 15:29	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1			10/06/10 15:29	2037-26-5	

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown

Pace Project No.: 3034709

Sample: MW-7S		Lab ID: 3034709003		Collected: 09/29/10 09:50		Received: 09/30/10 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			10/06/10 15:54	67-64-1	
Benzene	ND	ug/L	1.0	1			10/06/10 15:54	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1			10/06/10 15:54	75-27-4	
Bromoform	ND	ug/L	5.0	1			10/06/10 15:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1			10/06/10 15:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1			10/06/10 15:54	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1			10/06/10 15:54	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1			10/06/10 15:54	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1			10/06/10 15:54	108-90-7	
Chloroethane	ND	ug/L	5.0	1			10/06/10 15:54	75-00-3	
Chloroform	ND	ug/L	5.0	1			10/06/10 15:54	67-66-3	
Chloromethane	ND	ug/L	5.0	1			10/06/10 15:54	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1			10/06/10 15:54	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1			10/06/10 15:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1			10/06/10 15:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1			10/06/10 15:54	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1			10/06/10 15:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1			10/06/10 15:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1			10/06/10 15:54	75-35-4	
cis-1,2-Dichloroethene	8.7	ug/L	5.0	1			10/06/10 15:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1			10/06/10 15:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1			10/06/10 15:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1			10/06/10 15:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1			10/06/10 15:54	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1			10/06/10 15:54	100-41-4	
2-Hexanone	ND	ug/L	10.0	1			10/06/10 15:54	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1			10/06/10 15:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1			10/06/10 15:54	108-10-1	
Styrene	ND	ug/L	5.0	1			10/06/10 15:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1			10/06/10 15:54	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1			10/06/10 15:54	127-18-4	
Toluene	ND	ug/L	5.0	1			10/06/10 15:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1			10/06/10 15:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1			10/06/10 15:54	79-00-5	
Trichloroethene	7.0	ug/L	5.0	1			10/06/10 15:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1			10/06/10 15:54	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1			10/06/10 15:54	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1			10/06/10 15:54	179601-23-1	
o-Xylene	ND	ug/L	5.0	1			10/06/10 15:54	95-47-6	
4-Bromofluorobenzene (S)	93	%	70-130	1			10/06/10 15:54	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130	1			10/06/10 15:54	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1			10/06/10 15:54	2037-26-5	

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown

Pace Project No.: 3034709

Sample: MW-7D		Lab ID: 3034709004		Collected: 09/29/10 10:05		Received: 09/30/10 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			10/06/10 16:20	67-64-1	
Benzene	10.6	ug/L	1.0	1			10/06/10 16:20	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1			10/06/10 16:20	75-27-4	
Bromoform	ND	ug/L	5.0	1			10/06/10 16:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1			10/06/10 16:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1			10/06/10 16:20	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1			10/06/10 16:20	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1			10/06/10 16:20	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1			10/06/10 16:20	108-90-7	
Chloroethane	ND	ug/L	5.0	1			10/06/10 16:20	75-00-3	
Chloroform	ND	ug/L	5.0	1			10/06/10 16:20	67-66-3	
Chloromethane	ND	ug/L	5.0	1			10/06/10 16:20	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1			10/06/10 16:20	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1			10/06/10 16:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1			10/06/10 16:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1			10/06/10 16:20	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1			10/06/10 16:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1			10/06/10 16:20	107-06-2	
1,1-Dichloroethene	30.1	ug/L	5.0	1			10/06/10 16:20	75-35-4	
cis-1,2-Dichloroethene	3720	ug/L	100	20			10/07/10 19:42	156-59-2	
trans-1,2-Dichloroethene	48.0	ug/L	5.0	1			10/06/10 16:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1			10/06/10 16:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1			10/06/10 16:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1			10/06/10 16:20	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1			10/06/10 16:20	100-41-4	
2-Hexanone	ND	ug/L	10.0	1			10/06/10 16:20	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1			10/06/10 16:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1			10/06/10 16:20	108-10-1	
Styrene	ND	ug/L	5.0	1			10/06/10 16:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1			10/06/10 16:20	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1			10/06/10 16:20	127-18-4	
Toluene	ND	ug/L	5.0	1			10/06/10 16:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1			10/06/10 16:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1			10/06/10 16:20	79-00-5	
Trichloroethene	349	ug/L	100	20			10/07/10 19:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1			10/06/10 16:20	75-69-4	
Vinyl chloride	359	ug/L	20.0	20			10/07/10 19:42	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1			10/06/10 16:20	179601-23-1	
o-Xylene	ND	ug/L	5.0	1			10/06/10 16:20	95-47-6	
4-Bromofluorobenzene (S)	94	%	70-130	1			10/06/10 16:20	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	70-130	1			10/06/10 16:20	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1			10/06/10 16:20	2037-26-5	

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown
Pace Project No.: 3034709

Sample: MW-20		Lab ID: 3034709005		Collected: 09/29/10 10:30		Received: 09/30/10 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		10/07/10 19:18	67-64-1		
Benzene	ND	ug/L	1.0	1		10/07/10 19:18	71-43-2		
Bromodichloromethane	ND	ug/L	5.0	1		10/07/10 19:18	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/07/10 19:18	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/07/10 19:18	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		10/07/10 19:18	78-93-3		
Carbon disulfide	ND	ug/L	5.0	1		10/07/10 19:18	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/07/10 19:18	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/07/10 19:18	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/07/10 19:18	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/07/10 19:18	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/07/10 19:18	74-87-3		
Dibromochloromethane	ND	ug/L	5.0	1		10/07/10 19:18	124-48-1		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/07/10 19:18	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/07/10 19:18	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/07/10 19:18	106-46-7		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/07/10 19:18	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/07/10 19:18	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/07/10 19:18	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/10 19:18	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/07/10 19:18	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/07/10 19:18	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/10 19:18	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/07/10 19:18	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/07/10 19:18	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		10/07/10 19:18	591-78-6		
Methylene Chloride	ND	ug/L	5.0	1		10/07/10 19:18	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/07/10 19:18	108-10-1		
Styrene	ND	ug/L	5.0	1		10/07/10 19:18	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/07/10 19:18	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/07/10 19:18	127-18-4		
Toluene	ND	ug/L	5.0	1		10/07/10 19:18	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/07/10 19:18	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/07/10 19:18	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/07/10 19:18	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/07/10 19:18	75-69-4		
Vinyl chloride	ND	ug/L	1.0	1		10/07/10 19:18	75-01-4		
m&p-Xylene	ND	ug/L	5.0	1		10/07/10 19:18	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		10/07/10 19:18	95-47-6		
4-Bromofluorobenzene (S)	95	%	70-130	1		10/07/10 19:18	460-00-4		
1,2-Dichloroethane-d4 (S)	113	%	70-130	1		10/07/10 19:18	17060-07-0		
Toluene-d8 (S)	93	%	70-130	1		10/07/10 19:18	2037-26-5		

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown
Pace Project No.: 3034709

Sample: VP-6D		Lab ID: 3034709006		Collected: 09/29/10 11:30		Received: 09/30/10 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		10/06/10 17:10	67-64-1		
Benzene	ND	ug/L	1.0	1		10/06/10 17:10	71-43-2		
Bromodichloromethane	ND	ug/L	5.0	1		10/06/10 17:10	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/06/10 17:10	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/06/10 17:10	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		10/06/10 17:10	78-93-3		
Carbon disulfide	ND	ug/L	5.0	1		10/06/10 17:10	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/06/10 17:10	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/06/10 17:10	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/06/10 17:10	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/06/10 17:10	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/06/10 17:10	74-87-3		
Dibromochloromethane	ND	ug/L	5.0	1		10/06/10 17:10	124-48-1		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/06/10 17:10	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/06/10 17:10	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/06/10 17:10	106-46-7		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/06/10 17:10	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/10 17:10	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		10/06/10 17:10	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		10/06/10 17:10	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/06/10 17:10	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/06/10 17:10	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/10 17:10	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/10 17:10	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/06/10 17:10	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		10/06/10 17:10	591-78-6		
Methylene Chloride	ND	ug/L	5.0	1		10/06/10 17:10	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/06/10 17:10	108-10-1		
Styrene	ND	ug/L	5.0	1		10/06/10 17:10	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/06/10 17:10	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/06/10 17:10	127-18-4		
Toluene	ND	ug/L	5.0	1		10/06/10 17:10	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/06/10 17:10	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/06/10 17:10	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		10/06/10 17:10	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/06/10 17:10	75-69-4		
Vinyl chloride	ND	ug/L	1.0	1		10/06/10 17:10	75-01-4		
m&p-Xylene	ND	ug/L	5.0	1		10/06/10 17:10	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		10/06/10 17:10	95-47-6		
4-Bromofluorobenzene (S)	95	%	70-130	1		10/06/10 17:10	460-00-4		
1,2-Dichloroethane-d4 (S)	111	%	70-130	1		10/06/10 17:10	17060-07-0		
Toluene-d8 (S)	97	%	70-130	1		10/06/10 17:10	2037-26-5		

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown
Pace Project No.: 3034709

Sample: MW-22D		Lab ID: 3034709007		Collected: 09/29/10 11:55		Received: 09/30/10 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			10/06/10 17:36	67-64-1	
Benzene	2.0	ug/L	1.0	1			10/06/10 17:36	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1			10/06/10 17:36	75-27-4	
Bromoform	ND	ug/L	5.0	1			10/06/10 17:36	75-25-2	
Bromomethane	ND	ug/L	5.0	1			10/06/10 17:36	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1			10/06/10 17:36	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1			10/06/10 17:36	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1			10/06/10 17:36	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1			10/06/10 17:36	108-90-7	
Chloroethane	ND	ug/L	5.0	1			10/06/10 17:36	75-00-3	
Chloroform	ND	ug/L	5.0	1			10/06/10 17:36	67-66-3	
Chloromethane	ND	ug/L	5.0	1			10/06/10 17:36	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1			10/06/10 17:36	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1			10/06/10 17:36	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1			10/06/10 17:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1			10/06/10 17:36	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1			10/06/10 17:36	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1			10/06/10 17:36	107-06-2	
1,1-Dichloroethene	8.0	ug/L	5.0	1			10/06/10 17:36	75-35-4	
cis-1,2-Dichloroethene	863	ug/L	500	100			10/07/10 20:06	156-59-2	
trans-1,2-Dichloroethene	5.8	ug/L	5.0	1			10/06/10 17:36	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1			10/06/10 17:36	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1			10/06/10 17:36	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1			10/06/10 17:36	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1			10/06/10 17:36	100-41-4	
2-Hexanone	ND	ug/L	10.0	1			10/06/10 17:36	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1			10/06/10 17:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1			10/06/10 17:36	108-10-1	
Styrene	ND	ug/L	5.0	1			10/06/10 17:36	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1			10/06/10 17:36	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1			10/06/10 17:36	127-18-4	
Toluene	ND	ug/L	5.0	1			10/06/10 17:36	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1			10/06/10 17:36	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1			10/06/10 17:36	79-00-5	
Trichloroethene	5090	ug/L	500	100			10/07/10 20:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1			10/06/10 17:36	75-69-4	
Vinyl chloride	21.6	ug/L	1.0	1			10/06/10 17:36	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1			10/06/10 17:36	179601-23-1	
o-Xylene	ND	ug/L	5.0	1			10/06/10 17:36	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130	1			10/06/10 17:36	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1			10/06/10 17:36	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1			10/06/10 17:36	2037-26-5	

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown
Pace Project No.: 3034709

Sample: MW-21D		Lab ID: 3034709008	Collected: 09/29/10 12:20	Received: 09/30/10 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	10400	ug/L	1000	100		10/07/10 20:54	67-64-1	
Benzene	94.2	ug/L	1.0	1		10/06/10 18:01	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/06/10 18:01	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/06/10 18:01	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/06/10 18:01	74-83-9	
2-Butanone (MEK)	251	ug/L	10.0	1		10/06/10 18:01	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/06/10 18:01	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/06/10 18:01	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/06/10 18:01	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/06/10 18:01	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/06/10 18:01	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/06/10 18:01	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/06/10 18:01	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/06/10 18:01	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/06/10 18:01	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/06/10 18:01	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/06/10 18:01	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/06/10 18:01	107-06-2	
1,1-Dichloroethene	751	ug/L	500	100		10/07/10 20:54	75-35-4	
cis-1,2-Dichloroethene	278000	ug/L	5000	1000		10/08/10 10:38	156-59-2	
trans-1,2-Dichloroethene	749	ug/L	500	100		10/07/10 20:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/06/10 18:01	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/10 18:01	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/06/10 18:01	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/06/10 18:01	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/06/10 18:01	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/06/10 18:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/06/10 18:01	108-10-1	
Styrene	ND	ug/L	5.0	1		10/06/10 18:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/06/10 18:01	79-34-5	
Tetrachloroethene	10.5	ug/L	5.0	1		10/06/10 18:01	127-18-4	
Toluene	41.0	ug/L	5.0	1		10/06/10 18:01	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/06/10 18:01	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/06/10 18:01	79-00-5	
Trichloroethene	166000	ug/L	2500	500		10/07/10 21:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/06/10 18:01	75-69-4	
Vinyl chloride	23100	ug/L	100	100		10/07/10 20:54	75-01-4	
m&p-Xylene	5.5	ug/L	5.0	1		10/06/10 18:01	179601-23-1	
o-Xylene	5.0	ug/L	5.0	1		10/06/10 18:01	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		10/06/10 18:01	460-00-4	
1,2-Dichloroethane-d4 (S)	124	%	70-130	1		10/06/10 18:01	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		10/06/10 18:01	2037-26-5	

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown

Pace Project No.: 3034709

Sample: MW-19D		Lab ID: 3034709009	Collected: 09/29/10 12:50	Received: 09/30/10 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	2160 ug/L		2000	200		10/08/10 11:26	67-64-1	
Benzene	ND ug/L		1.0	1		10/08/10 11:02	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		10/08/10 11:02	75-27-4	
Bromoform	ND ug/L		5.0	1		10/08/10 11:02	75-25-2	
Bromomethane	ND ug/L		5.0	1		10/08/10 11:02	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		10/08/10 11:02	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		10/08/10 11:02	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		10/08/10 11:02	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		10/08/10 11:02	108-90-7	
Chloroethane	ND ug/L		5.0	1		10/08/10 11:02	75-00-3	
Chloroform	ND ug/L		5.0	1		10/08/10 11:02	67-66-3	
Chloromethane	ND ug/L		5.0	1		10/08/10 11:02	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		10/08/10 11:02	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		10/08/10 11:02	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		10/08/10 11:02	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		10/08/10 11:02	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		10/08/10 11:02	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		10/08/10 11:02	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		10/08/10 11:02	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		10/08/10 11:02	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		10/08/10 11:02	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		10/08/10 11:02	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		10/08/10 11:02	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		10/08/10 11:02	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		10/08/10 11:02	100-41-4	
2-Hexanone	ND ug/L		10.0	1		10/08/10 11:02	591-78-6	
Methylene Chloride	ND ug/L		5.0	1		10/08/10 11:02	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		10/08/10 11:02	108-10-1	
Styrene	ND ug/L		5.0	1		10/08/10 11:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		10/08/10 11:02	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		10/08/10 11:02	127-18-4	
Toluene	ND ug/L		5.0	1		10/08/10 11:02	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		10/08/10 11:02	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		10/08/10 11:02	79-00-5	
Trichloroethene	6.2 ug/L		5.0	1		10/08/10 11:02	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		10/08/10 11:02	75-69-4	
Vinyl chloride	37.2 ug/L		1.0	1		10/08/10 11:02	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		10/08/10 11:02	179601-23-1	
o-Xylene	ND ug/L		5.0	1		10/08/10 11:02	95-47-6	
4-Bromofluorobenzene (S)	93 %		70-130	1		10/08/10 11:02	460-00-4	
1,2-Dichloroethane-d4 (S)	111 %		70-130	1		10/08/10 11:02	17060-07-0	
Toluene-d8 (S)	97 %		70-130	1		10/08/10 11:02	2037-26-5	

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown

Pace Project No.: 3034709

Sample: TB-02		Lab ID: 3034709010	Collected: 09/29/10 00:01	Received: 09/30/10 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		10/06/10 12:30	67-64-1	
Benzene	ND ug/L		1.0	1		10/06/10 12:30	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		10/06/10 12:30	75-27-4	
Bromoform	ND ug/L		5.0	1		10/06/10 12:30	75-25-2	
Bromomethane	ND ug/L		5.0	1		10/06/10 12:30	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		10/06/10 12:30	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		10/06/10 12:30	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		10/06/10 12:30	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		10/06/10 12:30	108-90-7	
Chloroethane	ND ug/L		5.0	1		10/06/10 12:30	75-00-3	
Chloroform	ND ug/L		5.0	1		10/06/10 12:30	67-66-3	
Chloromethane	ND ug/L		5.0	1		10/06/10 12:30	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		10/06/10 12:30	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		10/06/10 12:30	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		10/06/10 12:30	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		10/06/10 12:30	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		10/06/10 12:30	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		10/06/10 12:30	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		10/06/10 12:30	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		10/06/10 12:30	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		10/06/10 12:30	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		10/06/10 12:30	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		10/06/10 12:30	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		10/06/10 12:30	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		10/06/10 12:30	100-41-4	
2-Hexanone	ND ug/L		10.0	1		10/06/10 12:30	591-78-6	
Methylene Chloride	ND ug/L		5.0	1		10/06/10 12:30	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		10/06/10 12:30	108-10-1	
Styrene	ND ug/L		5.0	1		10/06/10 12:30	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		10/06/10 12:30	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		10/06/10 12:30	127-18-4	
Toluene	ND ug/L		5.0	1		10/06/10 12:30	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		10/06/10 12:30	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		10/06/10 12:30	79-00-5	
Trichloroethene	ND ug/L		5.0	1		10/06/10 12:30	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		10/06/10 12:30	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		10/06/10 12:30	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		10/06/10 12:30	179601-23-1	
o-Xylene	ND ug/L		5.0	1		10/06/10 12:30	95-47-6	
4-Bromofluorobenzene (S)	96 %		70-130	1		10/06/10 12:30	460-00-4	
1,2-Dichloroethane-d4 (S)	115 %		70-130	1		10/06/10 12:30	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		10/06/10 12:30	2037-26-5	

QUALITY CONTROL DATA

Project: Essex/Hope Jamestown

Pace Project No.: 3034709

QC Batch:	MSV/7338	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	3034709001, 3034709002, 3034709003, 3034709004, 3034709005, 3034709006, 3034709007, 3034709008, 3034709009, 3034709010		

METHOD BLANK: 223268 Matrix: Water

Associated Lab Samples: 3034709001, 3034709002, 3034709003, 3034709004, 3034709005, 3034709006, 3034709007, 3034709008, 3034709009, 3034709010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/06/10 09:58	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/06/10 09:58	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/06/10 09:58	
1,1-Dichloroethane	ug/L	ND	5.0	10/06/10 09:58	
1,1-Dichloroethene	ug/L	ND	5.0	10/06/10 09:58	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/06/10 09:58	
1,2-Dichloroethane	ug/L	ND	5.0	10/06/10 09:58	
1,2-Dichloropropane	ug/L	ND	5.0	10/06/10 09:58	
1,3-Dichlorobenzene	ug/L	ND	5.0	10/06/10 09:58	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/06/10 09:58	
2-Butanone (MEK)	ug/L	ND	10.0	10/06/10 09:58	
2-Hexanone	ug/L	ND	10.0	10/06/10 09:58	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/06/10 09:58	
Acetone	ug/L	ND	10.0	10/06/10 09:58	
Benzene	ug/L	ND	1.0	10/06/10 09:58	
Bromodichloromethane	ug/L	ND	5.0	10/06/10 09:58	
Bromoform	ug/L	ND	5.0	10/06/10 09:58	
Bromomethane	ug/L	ND	5.0	10/06/10 09:58	
Carbon disulfide	ug/L	ND	5.0	10/06/10 09:58	
Carbon tetrachloride	ug/L	ND	5.0	10/06/10 09:58	
Chlorobenzene	ug/L	ND	5.0	10/06/10 09:58	
Chloroethane	ug/L	ND	5.0	10/06/10 09:58	
Chloroform	ug/L	ND	5.0	10/06/10 09:58	
Chloromethane	ug/L	ND	5.0	10/06/10 09:58	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/06/10 09:58	
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/06/10 09:58	
Dibromochloromethane	ug/L	ND	5.0	10/06/10 09:58	
Ethylbenzene	ug/L	ND	5.0	10/06/10 09:58	
m&p-Xylene	ug/L	ND	5.0	10/06/10 09:58	
Methylene Chloride	ug/L	ND	5.0	10/06/10 09:58	
o-Xylene	ug/L	ND	5.0	10/06/10 09:58	
Styrene	ug/L	ND	5.0	10/06/10 09:58	
Tetrachloroethene	ug/L	ND	5.0	10/06/10 09:58	
Toluene	ug/L	ND	5.0	10/06/10 09:58	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/06/10 09:58	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/06/10 09:58	
Trichloroethene	ug/L	ND	5.0	10/06/10 09:58	
Trichlorofluoromethane	ug/L	ND	5.0	10/06/10 09:58	
Vinyl chloride	ug/L	ND	1.0	10/06/10 09:58	
1,2-Dichloroethane-d4 (S)	%	110	70-130	10/06/10 09:58	
4-Bromofluorobenzene (S)	%	96	70-130	10/06/10 09:58	

Date: 10/14/2010 04:49 PM

REPORT OF LABORATORY ANALYSIS

Page 14 of 18

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: Essex/Hope Jamestown

Pace Project No.: 3034709

METHOD BLANK: 223268

Matrix: Water

Associated Lab Samples: 3034709001, 3034709002, 3034709003, 3034709004, 3034709005, 3034709006, 3034709007, 3034709008, 3034709009, 3034709010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene-d8 (S)	%	96	70-130	10/06/10 09:58	

LABORATORY CONTROL SAMPLE: 223269

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	15.5	78	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	15.1	76	70-130	
1,1,2-Trichloroethane	ug/L	20	16.5	82	70-130	
1,1-Dichloroethane	ug/L	20	17.7	88	70-130	
1,1-Dichloroethene	ug/L	20	16.3	82	70-130	
1,2-Dichlorobenzene	ug/L	20	15.8	79	70-130	
1,2-Dichloroethane	ug/L	20	17.0	85	70-130	
1,2-Dichloropropane	ug/L	20	16.7	84	70-130	
1,3-Dichlorobenzene	ug/L	20	15.7	78	70-130	
1,4-Dichlorobenzene	ug/L	20	16.0	80	70-130	
2-Butanone (MEK)	ug/L	20	16.4	82	70-130	
2-Hexanone	ug/L	20	19.7	99	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	17.7	89	70-130	
Acetone	ug/L	20	22.8	114	70-130	
Benzene	ug/L	20	16.1	81	70-130	
Bromodichloromethane	ug/L	20	14.5	72	70-130	
Bromoform	ug/L	20	12.7	64	70-130	L2
Bromomethane	ug/L	20	15.7	79	70-130	
Carbon disulfide	ug/L	20	15.1	75	70-130	
Carbon tetrachloride	ug/L	20	13.2	66	70-130	L2
Chlorobenzene	ug/L	20	16.3	82	70-130	
Chloroethane	ug/L	20	17.7	88	70-130	
Chloroform	ug/L	20	16.7	84	70-130	
Chloromethane	ug/L	20	18.9	95	70-130	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	70-130	
cis-1,3-Dichloropropene	ug/L	20	16.3	82	70-130	
Dibromochloromethane	ug/L	20	13.9	69	70-130	L2
Ethylbenzene	ug/L	20	16.4	82	70-130	
m&p-Xylene	ug/L	40	32.7	82	70-130	
Methylene Chloride	ug/L	20	19.4	97	70-130	
o-Xylene	ug/L	20	16.2	81	70-130	
Styrene	ug/L	20	16.4	82	70-130	
Tetrachloroethene	ug/L	20	14.7	73	70-130	
Toluene	ug/L	20	16.7	83	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.7	89	70-130	
trans-1,3-Dichloropropene	ug/L	20	15.2	76	70-130	
Trichloroethene	ug/L	20	14.9	75	70-130	
Trichlorofluoromethane	ug/L	20	19.8	99	70-130	
Vinyl chloride	ug/L	20	17.3	86	70-130	

QUALITY CONTROL DATA

Project: Essex/Hope Jamestown

Pace Project No.: 3034709

LABORATORY CONTROL SAMPLE: 223269

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane-d4 (S)	%			108	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			100	70-130	

QUALIFIERS

Project: Essex/Hope Jamestown

Pace Project No.: 3034709

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.

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: MSV/7338

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex/Hope Jamestown

Pace Project No.: 3034709

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3034709001	MW-6	EPA 8260	MSV/7338		
3034709002	MW-8	EPA 8260	MSV/7338		
3034709003	MW-7S	EPA 8260	MSV/7338		
3034709004	MW-7D	EPA 8260	MSV/7338		
3034709005	MW-20	EPA 8260	MSV/7338		
3034709006	VP-6D	EPA 8260	MSV/7338		
3034709007	MW-22D	EPA 8260	MSV/7338		
3034709008	MW-21D	EPA 8260	MSV/7338		
3034709009	MW-19D	EPA 8260	MSV/7338		
3034709010	TB-02	EPA 8260	MSV/7338		

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	URS CORP	Report To:	MARK DOW/IAK	Attention:	
Address:	FOSTER RUMBLE, STE. 300 501 HOLWAY DR PITTSBURGH, PA 15220	Copy To:	VALERIE SIBERT	Company Name:	
Email To:				Address:	
Phone:	412-563-4700 FAX 412-563-4701	Purchase Order No.:	41568652	Pace Quote Reference:	
Requested Due Date/TAT:	STAN DARD	Project Name:	ESSEX/HOPE JAMES TOWN	Pace Project Manager:	
		Project Number:	41568652.40000	Pace Profile #:	
				Page: <u>1</u> of <u>1</u> 1434834 REGULATORY AGENCY ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER _____ Site Location: <u>NY</u> STATE: _____	

[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			Samples Intact (Y/N)		
							Received on	Temp in °C	Sealed Cooler (Y/N)			
ANNUAL PMP SAMPLING 2010	Valerie Sibeto	9.29.10		Reddy	9.29.10							
				Lisa Lamm	9.30	1000			33	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: VALERIE SIBETO	DATE Signed (MM/DD/YY): 9.29.10
SIGNATURE of SAMPLER: <i>Valerie Sibeto</i>	

JSS

Sample Condition Upon Receipt



Client Name: URS

Project # 3034709

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

Tracking #: 867255381440

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) 5

Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 3.3

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: LEL 9/30/10

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: <u>AA</u>		
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: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water)	☒ Yes ☐ No	Initial when completed <u>LEL</u> 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:

Sharon Christner

Date: 9/30/10

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

2010 MONTHLY POTW INFLUENT/EFFLUENT SAMPLE DATA

January 26, 2010

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

RE: Project: Essex-Hope
Pace Project No.: 3021442

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on January 20, 2010. 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,



Timothy Reed

timothy.reed@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: Essex-Hope

Pace Project No.: 3021442

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

REPORT OF LABORATORY ANALYSIS

Page 2 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: Essex-Hope

Pace Project No.: 3021442

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3021442001	PRE-CARB	EPA 8260	EAC	42	PASI-PA
3021442002	PRIMARY EFF	EPA 8260	EAC	42	PASI-PA
3021442003	POST-CARB Composite	EPA 8260	EAC	42	PASI-PA
3021442004	TB-01	EPA 8260	EAC	42	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3021442

Sample: PRE-CARB		Lab ID: 3021442001		Collected: 01/19/10 13:45		Received: 01/20/10 10:30		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Acetone	128	ug/L	10.0	1		01/21/10 14:52	67-64-1		
Benzene	10.2	ug/L	1.0	1		01/21/10 14:52	71-43-2		
Bromodichloromethane	ND	ug/L	5.0	1		01/21/10 14:52	75-27-4		
Bromoform	ND	ug/L	5.0	1		01/21/10 14:52	75-25-2		
Bromomethane	ND	ug/L	5.0	1		01/21/10 14:52	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		01/21/10 14:52	78-93-3		
Carbon disulfide	ND	ug/L	5.0	1		01/21/10 14:52	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		01/21/10 14:52	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		01/21/10 14:52	108-90-7		
Chloroethane	ND	ug/L	5.0	1		01/21/10 14:52	75-00-3		
Chloroform	ND	ug/L	5.0	1		01/21/10 14:52	67-66-3		
Chloromethane	ND	ug/L	5.0	1		01/21/10 14:52	74-87-3		
Dibromochloromethane	ND	ug/L	5.0	1		01/21/10 14:52	124-48-1		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/21/10 14:52	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/21/10 14:52	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/21/10 14:52	106-46-7		
1,1-Dichloroethane	ND	ug/L	5.0	1		01/21/10 14:52	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		01/21/10 14:52	107-06-2		
1,1-Dichloroethene	18.8	ug/L	5.0	1		01/21/10 14:52	75-35-4		
cis-1,2-Dichloroethene	5980	ug/L	200	40		01/21/10 15:16	156-59-2		
trans-1,2-Dichloroethene	65.1	ug/L	5.0	1		01/21/10 14:52	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		01/21/10 14:52	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/21/10 14:52	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/21/10 14:52	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		01/21/10 14:52	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		01/21/10 14:52	591-78-6		
Methylene Chloride	ND	ug/L	5.0	1		01/21/10 14:52	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/21/10 14:52	108-10-1		
Styrene	ND	ug/L	5.0	1		01/21/10 14:52	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/21/10 14:52	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		01/21/10 14:52	127-18-4		
Toluene	ND	ug/L	5.0	1		01/21/10 14:52	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/21/10 14:52	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/21/10 14:52	79-00-5		
Trichloroethene	2160	ug/L	200	40		01/21/10 15:16	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		01/21/10 14:52	75-69-4		
Vinyl chloride	586	ug/L	40.0	40		01/21/10 15:16	75-01-4		
m&p-Xylene	ND	ug/L	5.0	1		01/21/10 14:52	1330-20-7		
o-Xylene	ND	ug/L	5.0	1		01/21/10 14:52	95-47-6		
4-Bromofluorobenzene (S)	96	%	70-130	1		01/21/10 14:52	460-00-4		
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		01/21/10 14:52	17060-07-0		
Toluene-d8 (S)	96	%	70-130	1		01/21/10 14:52	2037-26-5		

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3021442

Sample: PRIMARY EFF		Lab ID: 3021442002	Collected: 01/19/10 13:50	Received: 01/20/10 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		01/21/10 15:40	67-64-1	
Benzene	ND	ug/L	1.0	1		01/21/10 15:40	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		01/21/10 15:40	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/21/10 15:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/21/10 15:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/21/10 15:40	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		01/21/10 15:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/21/10 15:40	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/21/10 15:40	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/21/10 15:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/21/10 15:40	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/21/10 15:40	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		01/21/10 15:40	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/21/10 15:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/21/10 15:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/21/10 15:40	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/21/10 15:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/21/10 15:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/21/10 15:40	75-35-4	
cis-1,2-Dichloroethene	1140	ug/L	200	40		01/21/10 16:05	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/21/10 15:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/21/10 15:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/21/10 15:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/21/10 15:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/21/10 15:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		01/21/10 15:40	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		01/21/10 15:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/21/10 15:40	108-10-1	
Styrene	ND	ug/L	5.0	1		01/21/10 15:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/21/10 15:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/21/10 15:40	127-18-4	
Toluene	ND	ug/L	5.0	1		01/21/10 15:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/21/10 15:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/21/10 15:40	79-00-5	
Trichloroethene	16.7	ug/L	5.0	1		01/21/10 15:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/21/10 15:40	75-69-4	
Vinyl chloride	725	ug/L	40.0	40		01/21/10 16:05	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		01/21/10 15:40	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		01/21/10 15:40	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130	1		01/21/10 15:40	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		01/21/10 15:40	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		01/21/10 15:40	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope

Pace Project No.: 3021442

Sample: POST-CARB Composite **Lab ID: 3021442003** Collected: 01/19/10 14:00 Received: 01/20/10 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		01/21/10 16:29	67-64-1	
Benzene	ND	ug/L	1.0	1		01/21/10 16:29	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		01/21/10 16:29	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/21/10 16:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/21/10 16:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/21/10 16:29	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		01/21/10 16:29	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/21/10 16:29	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/21/10 16:29	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/21/10 16:29	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/21/10 16:29	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/21/10 16:29	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		01/21/10 16:29	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/21/10 16:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/21/10 16:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/21/10 16:29	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/21/10 16:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/21/10 16:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/21/10 16:29	75-35-4	
cis-1,2-Dichloroethene	144	ug/L	5.0	1		01/21/10 16:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/21/10 16:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/21/10 16:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/21/10 16:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/21/10 16:29	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/21/10 16:29	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		01/21/10 16:29	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		01/21/10 16:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/21/10 16:29	108-10-1	
Styrene	ND	ug/L	5.0	1		01/21/10 16:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/21/10 16:29	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/21/10 16:29	127-18-4	
Toluene	ND	ug/L	5.0	1		01/21/10 16:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/21/10 16:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/21/10 16:29	79-00-5	
Trichloroethene	6.1	ug/L	5.0	1		01/21/10 16:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/21/10 16:29	75-69-4	
Vinyl chloride	137	ug/L	1.0	1		01/21/10 16:29	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		01/21/10 16:29	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		01/21/10 16:29	95-47-6	
4-Bromofluorobenzene (S)	95	%	70-130	1		01/21/10 16:29	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		01/21/10 16:29	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		01/21/10 16:29	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3021442

Sample: TB-01		Lab ID: 3021442004	Collected: 01/19/10 00:00	Received: 01/20/10 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		01/21/10 14:03	67-64-1	
Benzene	ND	ug/L	1.0	1		01/21/10 14:03	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		01/21/10 14:03	75-27-4	
Bromoform	ND	ug/L	5.0	1		01/21/10 14:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		01/21/10 14:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		01/21/10 14:03	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		01/21/10 14:03	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		01/21/10 14:03	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		01/21/10 14:03	108-90-7	
Chloroethane	ND	ug/L	5.0	1		01/21/10 14:03	75-00-3	
Chloroform	ND	ug/L	5.0	1		01/21/10 14:03	67-66-3	
Chloromethane	ND	ug/L	5.0	1		01/21/10 14:03	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		01/21/10 14:03	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		01/21/10 14:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		01/21/10 14:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		01/21/10 14:03	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		01/21/10 14:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		01/21/10 14:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		01/21/10 14:03	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		01/21/10 14:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		01/21/10 14:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		01/21/10 14:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		01/21/10 14:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		01/21/10 14:03	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		01/21/10 14:03	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		01/21/10 14:03	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		01/21/10 14:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		01/21/10 14:03	108-10-1	
Styrene	ND	ug/L	5.0	1		01/21/10 14:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		01/21/10 14:03	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		01/21/10 14:03	127-18-4	
Toluene	ND	ug/L	5.0	1		01/21/10 14:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		01/21/10 14:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		01/21/10 14:03	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		01/21/10 14:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		01/21/10 14:03	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		01/21/10 14:03	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		01/21/10 14:03	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		01/21/10 14:03	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		01/21/10 14:03	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		01/21/10 14:03	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		01/21/10 14:03	2037-26-5	

QUALITY CONTROL DATA

Project: Essex-Hope

Pace Project No.: 3021442

QC Batch: MSV/4863

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 3021442001, 3021442002, 3021442003, 3021442004

METHOD BLANK: 133319

Matrix: Water

Associated Lab Samples: 3021442001, 3021442002, 3021442003, 3021442004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	01/21/10 10:48	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	01/21/10 10:48	
1,1,2-Trichloroethane	ug/L	ND	5.0	01/21/10 10:48	
1,1-Dichloroethane	ug/L	ND	5.0	01/21/10 10:48	
1,1-Dichloroethene	ug/L	ND	5.0	01/21/10 10:48	
1,2-Dichlorobenzene	ug/L	ND	5.0	01/21/10 10:48	
1,2-Dichloroethane	ug/L	ND	5.0	01/21/10 10:48	
1,2-Dichloropropane	ug/L	ND	5.0	01/21/10 10:48	
1,3-Dichlorobenzene	ug/L	ND	5.0	01/21/10 10:48	
1,4-Dichlorobenzene	ug/L	ND	5.0	01/21/10 10:48	
2-Butanone (MEK)	ug/L	ND	10.0	01/21/10 10:48	
2-Hexanone	ug/L	ND	10.0	01/21/10 10:48	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/21/10 10:48	
Acetone	ug/L	ND	10.0	01/21/10 10:48	
Benzene	ug/L	ND	1.0	01/21/10 10:48	
Bromodichloromethane	ug/L	ND	5.0	01/21/10 10:48	
Bromoform	ug/L	ND	5.0	01/21/10 10:48	
Bromomethane	ug/L	ND	5.0	01/21/10 10:48	
Carbon disulfide	ug/L	ND	5.0	01/21/10 10:48	
Carbon tetrachloride	ug/L	ND	5.0	01/21/10 10:48	
Chlorobenzene	ug/L	ND	5.0	01/21/10 10:48	
Chloroethane	ug/L	ND	5.0	01/21/10 10:48	
Chloroform	ug/L	ND	5.0	01/21/10 10:48	
Chloromethane	ug/L	ND	5.0	01/21/10 10:48	
cis-1,2-Dichloroethene	ug/L	ND	5.0	01/21/10 10:48	
cis-1,3-Dichloropropene	ug/L	ND	5.0	01/21/10 10:48	
Dibromochloromethane	ug/L	ND	5.0	01/21/10 10:48	
Ethylbenzene	ug/L	ND	5.0	01/21/10 10:48	
m&p-Xylene	ug/L	ND	5.0	01/21/10 10:48	
Methylene Chloride	ug/L	ND	5.0	01/21/10 10:48	
o-Xylene	ug/L	ND	5.0	01/21/10 10:48	
Styrene	ug/L	ND	5.0	01/21/10 10:48	
Tetrachloroethene	ug/L	ND	5.0	01/21/10 10:48	
Toluene	ug/L	ND	5.0	01/21/10 10:48	
trans-1,2-Dichloroethene	ug/L	ND	5.0	01/21/10 10:48	
trans-1,3-Dichloropropene	ug/L	ND	5.0	01/21/10 10:48	
Trichloroethene	ug/L	ND	5.0	01/21/10 10:48	
Trichlorofluoromethane	ug/L	ND	5.0	01/21/10 10:48	
Vinyl chloride	ug/L	ND	1.0	01/21/10 10:48	
1,2-Dichloroethane-d4 (S)	%	101	70-130	01/21/10 10:48	
4-Bromofluorobenzene (S)	%	96	70-130	01/21/10 10:48	
Toluene-d8 (S)	%	95	70-130	01/21/10 10:48	

Date: 01/26/2010 03:42 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: Essex-Hope

Pace Project No.: 3021442

LABORATORY CONTROL SAMPLE: 133320

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.0	105	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.5	93	70-130	
1,1,2-Trichloroethane	ug/L	20	19.9	99	70-130	
1,1-Dichloroethane	ug/L	20	21.1	105	70-130	
1,1-Dichloroethene	ug/L	20	18.0	90	70-130	
1,2-Dichlorobenzene	ug/L	20	19.8	99	70-130	
1,2-Dichloroethane	ug/L	20	21.0	105	70-130	
1,2-Dichloropropane	ug/L	20	20.2	101	70-130	
1,3-Dichlorobenzene	ug/L	20	20.0	100	70-130	
1,4-Dichlorobenzene	ug/L	20	20.3	102	70-130	
2-Butanone (MEK)	ug/L	20	19.1	96	70-130	
2-Hexanone	ug/L	20	18.8	94	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.8	94	70-130	
Acetone	ug/L	20	19.8	99	70-130	
Benzene	ug/L	20	19.8	99	70-130	
Bromodichloromethane	ug/L	20	19.3	97	70-130	
Bromoform	ug/L	20	17.1	85	70-130	
Bromomethane	ug/L	20	56.2	281	70-130	L0
Carbon disulfide	ug/L	20	11.7	59	70-130	L0
Carbon tetrachloride	ug/L	20	19.6	98	70-130	
Chlorobenzene	ug/L	20	20.9	105	70-130	
Chloroethane	ug/L	20	15.4	77	70-130	
Chloroform	ug/L	20	21.1	106	70-130	
Chloromethane	ug/L	20	18.1	90	70-130	
cis-1,2-Dichloroethene	ug/L	20	20.8	104	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.0	90	70-130	
Dibromochloromethane	ug/L	20	19.0	95	70-130	
Ethylbenzene	ug/L	20	21.0	105	70-130	
m&p-Xylene	ug/L	40	42.3	106	70-130	
Methylene Chloride	ug/L	20	20.8	104	70-130	
o-Xylene	ug/L	20	20.8	104	70-130	
Styrene	ug/L	20	19.6	98	70-130	
Tetrachloroethene	ug/L	20	20.5	103	70-130	
Toluene	ug/L	20	20.7	103	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.4	102	70-130	
trans-1,3-Dichloropropene	ug/L	20	18.0	90	70-130	
Trichloroethene	ug/L	20	20.7	103	70-130	
Trichlorofluoromethane	ug/L	20	18.2	91	70-130	
Vinyl chloride	ug/L	20	17.4	87	70-130	
1,2-Dichloroethane-d4 (S)	%			102	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

QUALIFIERS

Project: Essex-Hope

Pace Project No.: 3021442

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.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope

Pace Project No.: 3021442

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3021442001	PRE-CARB	EPA 8260	MSV/4863		
3021442002	PRIMARY EFF	EPA 8260	MSV/4863		
3021442003	POST-CARB Composite	EPA 8260	MSV/4863		
3021442004	TB-01	EPA 8260	MSV/4863		

Temp in °C	Received on	Custody	Samples Inta
	Ice (Y/N)	Sealed Cool	(Y/N)
PRINT Name of SAMPLER: VALERIE S BETO			
SIGNATURE of SAMPLER: <i>Valerie S Beto</i>			
DATE Signed (MM/DD/YY): 1/19/10			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COMPOSITE FOUR (4)	Valeriy V. V. / URS	1.19.10	1545	Andrei E. / URS	1.19.10	1545	
POST-CARB SAMPLES IN LAB AND RESET AS					1-2	1030	46 Y N Y
POST-CARB COMPOSITE							

***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.

Can

Sample Condition Upon Receipt

Pace Analytical

Client Name:

UKS

Project #

3021442

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Tracking #: 867255381359

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 4.6

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 1-20-10

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:	AP	
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
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:

Date: 1/20/10

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)

March 16, 2010

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

RE: Project: Essex-Hope
Pace Project No.: 3023705

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on March 02, 2010. 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,



Timothy Reed

timothy.reed@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: Essex-Hope

Pace Project No.: 3023705

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 #: 0065-282

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

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

REPORT OF LABORATORY ANALYSIS

Page 2 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: Essex-Hope

Pace Project No.: 3023705

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3023705001	PRE -CARB	EPA 8260	MAK	42	PASI-PA
3023705002	PRIMARY-EFF	EPA 8260	MAK	42	PASI-PA
3023705003	POST-CARB	EPA 8260	MAK	42	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3023705

Sample: PRE -CARB		Lab ID: 3023705001	Collected: 02/28/10 10:30	Received: 03/02/10 18:15	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		03/04/10 19:00	67-64-1	
Benzene	8.3	ug/L	1.0	1		03/04/10 19:00	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		03/04/10 19:00	75-27-4	
Bromoform	ND	ug/L	5.0	1		03/04/10 19:00	75-25-2	
Bromomethane	ND	ug/L	5.0	1		03/04/10 19:00	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		03/04/10 19:00	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		03/04/10 19:00	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		03/04/10 19:00	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		03/04/10 19:00	108-90-7	
Chloroethane	ND	ug/L	5.0	1		03/04/10 19:00	75-00-3	
Chloroform	ND	ug/L	5.0	1		03/04/10 19:00	67-66-3	
Chloromethane	ND	ug/L	5.0	1		03/04/10 19:00	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		03/04/10 19:00	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/04/10 19:00	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/04/10 19:00	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/04/10 19:00	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		03/04/10 19:00	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		03/04/10 19:00	107-06-2	
1,1-Dichloroethene	17.8	ug/L	5.0	1		03/04/10 19:00	75-35-4	
cis-1,2-Dichloroethene	4310	ug/L	200	40		03/04/10 19:26	156-59-2	
trans-1,2-Dichloroethene	54.3	ug/L	5.0	1		03/04/10 19:00	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		03/04/10 19:00	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/04/10 19:00	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/04/10 19:00	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		03/04/10 19:00	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		03/04/10 19:00	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		03/04/10 19:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/04/10 19:00	108-10-1	
Styrene	ND	ug/L	5.0	1		03/04/10 19:00	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/04/10 19:00	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		03/04/10 19:00	127-18-4	
Toluene	ND	ug/L	5.0	1		03/04/10 19:00	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/04/10 19:00	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/04/10 19:00	79-00-5	
Trichloroethene	2560	ug/L	200	40		03/04/10 19:26	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		03/04/10 19:00	75-69-4	
Vinyl chloride	572	ug/L	40.0	40		03/04/10 19:26	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		03/04/10 19:00	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		03/04/10 19:00	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		03/04/10 19:00	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		03/04/10 19:00	17060-07-0	
Toluene-d8 (S)	104	%	70-130	1		03/04/10 19:00	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3023705

Sample: PRIMARY-EFF		Lab ID: 3023705002		Collected: 02/28/10 10:40		Received: 03/02/10 18:15		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		03/04/10 19:52	67-64-1		
Benzene	ND	ug/L	1.0	1		03/04/10 19:52	71-43-2		
Bromodichloromethane	ND	ug/L	5.0	1		03/04/10 19:52	75-27-4		
Bromoform	ND	ug/L	5.0	1		03/04/10 19:52	75-25-2		
Bromomethane	ND	ug/L	5.0	1		03/04/10 19:52	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		03/04/10 19:52	78-93-3		
Carbon disulfide	ND	ug/L	5.0	1		03/04/10 19:52	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		03/04/10 19:52	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		03/04/10 19:52	108-90-7		
Chloroethane	ND	ug/L	5.0	1		03/04/10 19:52	75-00-3		
Chloroform	ND	ug/L	5.0	1		03/04/10 19:52	67-66-3		
Chloromethane	ND	ug/L	5.0	1		03/04/10 19:52	74-87-3		
Dibromochloromethane	ND	ug/L	5.0	1		03/04/10 19:52	124-48-1		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		03/04/10 19:52	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		03/04/10 19:52	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		03/04/10 19:52	106-46-7		
1,1-Dichloroethane	ND	ug/L	5.0	1		03/04/10 19:52	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		03/04/10 19:52	107-06-2		
1,1-Dichloroethene	8.1	ug/L	5.0	1		03/04/10 19:52	75-35-4		
cis-1,2-Dichloroethene	3730	ug/L	200	40		03/04/10 20:19	156-59-2		
trans-1,2-Dichloroethene	19.8	ug/L	5.0	1		03/04/10 19:52	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		03/04/10 19:52	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		03/04/10 19:52	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		03/04/10 19:52	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		03/04/10 19:52	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		03/04/10 19:52	591-78-6		
Methylene Chloride	ND	ug/L	5.0	1		03/04/10 19:52	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		03/04/10 19:52	108-10-1		
Styrene	ND	ug/L	5.0	1		03/04/10 19:52	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		03/04/10 19:52	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		03/04/10 19:52	127-18-4		
Toluene	ND	ug/L	5.0	1		03/04/10 19:52	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		03/04/10 19:52	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		03/04/10 19:52	79-00-5		
Trichloroethene	105	ug/L	5.0	1		03/04/10 19:52	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		03/04/10 19:52	75-69-4		
Vinyl chloride	701	ug/L	40.0	40		03/04/10 20:19	75-01-4		
m&p-Xylene	ND	ug/L	5.0	1		03/04/10 19:52	1330-20-7		
o-Xylene	ND	ug/L	5.0	1		03/04/10 19:52	95-47-6		
4-Bromofluorobenzene (S)	101	%	70-130	1		03/04/10 19:52	460-00-4		
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		03/04/10 19:52	17060-07-0		
Toluene-d8 (S)	103	%	70-130	1		03/04/10 19:52	2037-26-5		

ANALYTICAL RESULTS

Project: Essex-Hope

Pace Project No.: 3023705

Sample: POST-CARB		Lab ID: 3023705003		Collected: 02/28/10 12:15		Received: 03/02/10 18:15		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			03/04/10 20:45	67-64-1	
Benzene	ND	ug/L	1.0	1			03/04/10 20:45	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1			03/04/10 20:45	75-27-4	
Bromoform	ND	ug/L	5.0	1			03/04/10 20:45	75-25-2	
Bromomethane	ND	ug/L	5.0	1			03/04/10 20:45	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1			03/04/10 20:45	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1			03/04/10 20:45	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1			03/04/10 20:45	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1			03/04/10 20:45	108-90-7	
Chloroethane	ND	ug/L	5.0	1			03/04/10 20:45	75-00-3	
Chloroform	ND	ug/L	5.0	1			03/04/10 20:45	67-66-3	
Chloromethane	ND	ug/L	5.0	1			03/04/10 20:45	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1			03/04/10 20:45	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1			03/04/10 20:45	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1			03/04/10 20:45	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1			03/04/10 20:45	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1			03/04/10 20:45	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1			03/04/10 20:45	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1			03/04/10 20:45	75-35-4	
cis-1,2-Dichloroethene	109	ug/L	5.0	1			03/04/10 20:45	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1			03/04/10 20:45	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1			03/04/10 20:45	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1			03/04/10 20:45	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1			03/04/10 20:45	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1			03/04/10 20:45	100-41-4	
2-Hexanone	ND	ug/L	10.0	1			03/04/10 20:45	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1			03/04/10 20:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1			03/04/10 20:45	108-10-1	
Styrene	ND	ug/L	5.0	1			03/04/10 20:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1			03/04/10 20:45	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1			03/04/10 20:45	127-18-4	
Toluene	ND	ug/L	5.0	1			03/04/10 20:45	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1			03/04/10 20:45	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1			03/04/10 20:45	79-00-5	
Trichloroethene	5.7	ug/L	5.0	1			03/04/10 20:45	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1			03/04/10 20:45	75-69-4	
Vinyl chloride	731	ug/L	10.0	10			03/05/10 13:48	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1			03/04/10 20:45	1330-20-7	
o-Xylene	ND	ug/L	5.0	1			03/04/10 20:45	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130	1			03/04/10 20:45	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1			03/04/10 20:45	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1			03/04/10 20:45	2037-26-5	

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3023705

QC Batch: MSV/5171 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3023705001, 3023705002, 3023705003

METHOD BLANK: 146072 Matrix: Water
Associated Lab Samples: 3023705001, 3023705002, 3023705003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	03/04/10 16:48	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	03/04/10 16:48	
1,1,2-Trichloroethane	ug/L	ND	5.0	03/04/10 16:48	
1,1-Dichloroethane	ug/L	ND	5.0	03/04/10 16:48	
1,1-Dichloroethene	ug/L	ND	5.0	03/04/10 16:48	
1,2-Dichlorobenzene	ug/L	ND	5.0	03/04/10 16:48	
1,2-Dichloroethane	ug/L	ND	5.0	03/04/10 16:48	
1,2-Dichloropropane	ug/L	ND	5.0	03/04/10 16:48	
1,3-Dichlorobenzene	ug/L	ND	5.0	03/04/10 16:48	
1,4-Dichlorobenzene	ug/L	ND	5.0	03/04/10 16:48	
2-Butanone (MEK)	ug/L	ND	10.0	03/04/10 16:48	
2-Hexanone	ug/L	ND	10.0	03/04/10 16:48	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	03/04/10 16:48	
Acetone	ug/L	ND	10.0	03/04/10 16:48	
Benzene	ug/L	ND	1.0	03/04/10 16:48	
Bromodichloromethane	ug/L	ND	5.0	03/04/10 16:48	
Bromoform	ug/L	ND	5.0	03/04/10 16:48	
Bromomethane	ug/L	ND	5.0	03/04/10 16:48	
Carbon disulfide	ug/L	ND	5.0	03/04/10 16:48	
Carbon tetrachloride	ug/L	ND	5.0	03/04/10 16:48	
Chlorobenzene	ug/L	ND	5.0	03/04/10 16:48	
Chloroethane	ug/L	ND	5.0	03/04/10 16:48	
Chloroform	ug/L	ND	5.0	03/04/10 16:48	
Chloromethane	ug/L	ND	5.0	03/04/10 16:48	
cis-1,2-Dichloroethene	ug/L	ND	5.0	03/04/10 16:48	
cis-1,3-Dichloropropene	ug/L	ND	5.0	03/04/10 16:48	
Dibromochloromethane	ug/L	ND	5.0	03/04/10 16:48	
Ethylbenzene	ug/L	ND	5.0	03/04/10 16:48	
m&p-Xylene	ug/L	ND	5.0	03/04/10 16:48	
Methylene Chloride	ug/L	ND	5.0	03/04/10 16:48	
o-Xylene	ug/L	ND	5.0	03/04/10 16:48	
Styrene	ug/L	ND	5.0	03/04/10 16:48	
Tetrachloroethene	ug/L	ND	5.0	03/04/10 16:48	
Toluene	ug/L	ND	5.0	03/04/10 16:48	
trans-1,2-Dichloroethene	ug/L	ND	5.0	03/04/10 16:48	
trans-1,3-Dichloropropene	ug/L	ND	5.0	03/04/10 16:48	
Trichloroethene	ug/L	ND	5.0	03/04/10 16:48	
Trichlorofluoromethane	ug/L	ND	5.0	03/04/10 16:48	
Vinyl chloride	ug/L	ND	1.0	03/04/10 16:48	
1,2-Dichloroethane-d4 (S)	%	101	70-130	03/04/10 16:48	
4-Bromofluorobenzene (S)	%	101	70-130	03/04/10 16:48	
Toluene-d8 (S)	%	101	70-130	03/04/10 16:48	

QUALITY CONTROL DATA

Project: Essex-Hope

Pace Project No.: 3023705

LABORATORY CONTROL SAMPLE: 146073

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	23.3	117	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.8	109	70-130	
1,1,2-Trichloroethane	ug/L	20	21.3	106	70-130	
1,1-Dichloroethane	ug/L	20	21.1	106	70-130	
1,1-Dichloroethene	ug/L	20	16.0	80	70-130	
1,2-Dichlorobenzene	ug/L	20	21.5	108	70-130	
1,2-Dichloroethane	ug/L	20	19.0	95	70-130	
1,2-Dichloropropane	ug/L	20	22.7	113	70-130	
1,3-Dichlorobenzene	ug/L	20	21.4	107	70-130	
1,4-Dichlorobenzene	ug/L	20	21.3	106	70-130	
2-Butanone (MEK)	ug/L	20	15.6	78	70-130	
2-Hexanone	ug/L	20	17.9	89	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	17.8	89	70-130	
Acetone	ug/L	20	17.8	89	70-130	
Benzene	ug/L	20	22.3	111	70-130	
Bromodichloromethane	ug/L	20	23.8	119	70-130	
Bromoform	ug/L	20	22.9	114	70-130	
Bromomethane	ug/L	20	46.3	231	70-130	L1
Carbon disulfide	ug/L	20	18.6	93	70-130	
Carbon tetrachloride	ug/L	20	27.0	135	70-130	L1
Chlorobenzene	ug/L	20	21.7	108	70-130	
Chloroethane	ug/L	20	21.0	105	70-130	
Chloroform	ug/L	20	20.5	103	70-130	
Chloromethane	ug/L	20	19.6	98	70-130	
cis-1,2-Dichloroethene	ug/L	20	20.6	103	70-130	
cis-1,3-Dichloropropene	ug/L	20	23.5	118	70-130	
Dibromochloromethane	ug/L	20	25.1	125	70-130	
Ethylbenzene	ug/L	20	21.7	109	70-130	
m&p-Xylene	ug/L	40	44.1	110	70-130	
Methylene Chloride	ug/L	20	19.1	95	70-130	
o-Xylene	ug/L	20	20.9	105	70-130	
Styrene	ug/L	20	20.6	103	70-130	
Tetrachloroethene	ug/L	20	20.6	103	70-130	
Toluene	ug/L	20	22.0	110	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.4	102	70-130	
trans-1,3-Dichloropropene	ug/L	20	23.4	117	70-130	
Trichloroethene	ug/L	20	20.9	105	70-130	
Trichlorofluoromethane	ug/L	20	14.8	74	70-130	
Vinyl chloride	ug/L	20	18.9	94	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			102	70-130	

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3023705

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 146074 146075											
Parameter	Units	3023710001 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	20.2	21.7	101	109	70-130	7	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.0	19.2	90	96	70-130	7	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.8	19.3	94	97	70-130	3	
1,1-Dichloroethane	ug/L	ND	20	20	19.2	19.8	96	99	70-130	3	
1,1-Dichloroethene	ug/L	ND	20	20	15.5	16.2	78	81	70-130	4	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.1	19.0	91	95	70-130	5	
1,2-Dichloroethane	ug/L	ND	20	20	17.3	17.7	86	88	70-130	2	
1,2-Dichloropropane	ug/L	ND	20	20	19.9	20.8	99	104	70-130	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	17.7	18.8	88	94	70-130	6	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.3	19.6	92	98	70-130	7	
2-Butanone (MEK)	ug/L	ND	20	20	11.9	11.7	59	59	70-130	1	M0
2-Hexanone	ug/L	ND	20	20	12.9	13.9	64	69	70-130	7	M0
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	15.0	15.1	75	75	70-130	.4	
Acetone	ug/L	ND	20	20	10.7	12.2	54	61	70-130	12	M0
Benzene	ug/L	ND	20	20	20.0	20.9	100	104	70-130	4	
Bromodichloromethane	ug/L	ND	20	20	18.6	20.5	93	102	70-130	10	
Bromoform	ug/L	ND	20	20	15.1	17.2	75	86	70-130	13	
Bromomethane	ug/L	ND	20	20	24.8	24.1	124	120	70-130	3	
Carbon disulfide	ug/L	ND	20	20	17.6	19.1	88	95	70-130	8	
Carbon tetrachloride	ug/L	ND	20	20	21.1	24.5	105	122	70-130	15	
Chlorobenzene	ug/L	ND	20	20	19.5	19.9	97	100	70-130	2	
Chloroethane	ug/L	ND	20	20	20.9	23.3	105	116	70-130	11	
Chloroform	ug/L	ND	20	20	18.4	19.2	92	96	70-130	4	
Chloromethane	ug/L	ND	20	20	20.0	20.5	100	102	70-130	2	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.9	19.2	94	96	70-130	2	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.9	19.8	94	99	70-130	5	
Dibromochloromethane	ug/L	ND	20	20	18.3	20.4	91	102	70-130	11	
Ethylbenzene	ug/L	ND	20	20	19.5	20.2	97	101	70-130	4	
m&p-Xylene	ug/L		40	40	40.0	40.8	100	102	70-130	2	
Methylene Chloride	ug/L	ND	20	20	12.4	18.0	62	90	70-130	36	M0,R1
o-Xylene	ug/L		20	20	19.0	19.4	95	97	70-130	2	
Styrene	ug/L	ND	20	20	17.6	18.4	88	92	70-130	4	
Tetrachloroethene	ug/L	ND	20	20	19.3	20.0	96	100	70-130	4	
Toluene	ug/L	ND	20	20	19.9	20.8	100	104	70-130	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	18.0	19.7	90	98	70-130	9	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.7	19.5	93	98	70-130	4	
Trichloroethene	ug/L	ND	20	20	19.1	20.2	96	101	70-130	5	
Trichlorofluoromethane	ug/L	ND	20	20	16.5	16.6	82	83	70-130	.9	
Vinyl chloride	ug/L	ND	20	20	20.9	21.0	104	105	70-130	.9	
1,2-Dichloroethane-d4 (S)	%						105	106	70-130		
4-Bromofluorobenzene (S)	%						99	101	70-130		
Toluene-d8 (S)	%						102	104	70-130		

QUALIFIERS

Project: Essex-Hope

Pace Project No.: 3023705

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.

R1 RPD value was outside control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope

Pace Project No.: 3023705

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3023705001	PRE -CARB	EPA 8260	MSV/5171		
3023705002	PRIMARY-EFF	EPA 8260	MSV/5171		
3023705003	POST-CARB	EPA 8260	MSV/5171		



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:

Company: **URS CORP**
Address: **201 HIGHLAND DR**
POSTAL PLAZA 4, STE. 300
PITTSBURGH, PA 15220
Email To: **PITTSBURGH, PA 15220**

Section B

Required Project Information:

Report To: **MARK DOWLAT**
Copy To: **VALERIE SIBETO**
Purchase Order No: **41560652**
Project Name: **ESSEX/ROSE JAMES TOWN**
Request Due Date/TAT: **4/12/03**
Project Number: **41560652-1000**

Section C

Invoice Information:

Attention: **MARK DOWLAT**
Company Name: **VALERIE SIBETO**
Address: **41560652**
Pace Quote Reference: **41560652**
Pace Project Manager: **ESSEX/ROSE JAMES TOWN**
Pace Profile #: **41560652-1000**

REGULATORY AGENCY

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

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: DRINKING WATER, WASTE WATER, PRODUCT, SOIL/SOLID, OIL, VPIE, AIR, OTHER, TISSUE
CODE: DW, WW, P, SL, OI, WP, AR, OT, TS

SAMPLE TYPE
G=GRAB C=COMP

COLLECTED

COMPOSITE START

COMPOSITE END/GRAB

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

Preservatives

Unpreserved

H₂SO₄

HNO₃

HCl

NaOH

Na₂S₂O₃

Methanol

Other

Filtered (Y/N)

Requested Analysis:

Residual Chlorine (Y/N)

Pace Project Number

Lab I.D.

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact

Temp in °C

Received

on Ice

Custody

Sealed Cooler

Samples

Intact



Sample Condition Upon Receipt

Client Name: URS

Project # 3023705

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

Tracking #: _____

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

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

Thermometer Used 3 5

Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature 8.3

Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: SMB 3/3/10

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 <u>Ag</u>		
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: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water)	☒ Yes ☐ No	Initial when completed <u>SMB</u> 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: Rachel D Christner

Date: 3/3/10

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)

April 13, 2010

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

RE: Project: Essex-Hope JAMESTOWN
Pace Project No.: 3025383

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 2010. 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,



Timothy Reed

timothy.reed@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: Essex-Hope JAMESTOWN

Pace Project No.: 3025383

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 #: 0065-282

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

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

REPORT OF LABORATORY ANALYSIS

Page 2 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: Essex-Hope JAMESTOWN

Pace Project No.: 3025383

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3025383001	PRE CARB	EPA 8260	EAC	42	PASI-PA
3025383002	PRIMARY EFF	EPA 8260	EAC	42	PASI-PA
3025383003	POST CARB	EPA 8260	EAC	42	PASI-PA
3025383004	TB-01	EPA 8260	EAC	42	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Essex-Hope JAMESTOWN

Pace Project No.: 3025383

Sample: PRE CARB		Lab ID: 3025383001	Collected: 03/31/10 09:10	Received: 04/01/10 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		04/07/10 15:40	67-64-1	
Benzene	5.9	ug/L	1.0	1		04/07/10 15:40	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		04/07/10 15:40	75-27-4	
Bromoform	ND	ug/L	5.0	1		04/07/10 15:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		04/07/10 15:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		04/07/10 15:40	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		04/07/10 15:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		04/07/10 15:40	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		04/07/10 15:40	108-90-7	
Chloroethane	ND	ug/L	5.0	1		04/07/10 15:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		04/07/10 15:40	67-66-3	
Chloromethane	ND	ug/L	5.0	1		04/07/10 15:40	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		04/07/10 15:40	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/07/10 15:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/07/10 15:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/07/10 15:40	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		04/07/10 15:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		04/07/10 15:40	107-06-2	
1,1-Dichloroethene	13.8	ug/L	5.0	1		04/07/10 15:40	75-35-4	
cis-1,2-Dichloroethene	3380	ug/L	200	40		04/07/10 16:04	156-59-2	
trans-1,2-Dichloroethene	26.9	ug/L	5.0	1		04/07/10 15:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		04/07/10 15:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/07/10 15:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/07/10 15:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		04/07/10 15:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		04/07/10 15:40	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		04/07/10 15:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/07/10 15:40	108-10-1	
Styrene	ND	ug/L	5.0	1		04/07/10 15:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/07/10 15:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		04/07/10 15:40	127-18-4	
Toluene	ND	ug/L	5.0	1		04/07/10 15:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/07/10 15:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/07/10 15:40	79-00-5	
Trichloroethene	1720	ug/L	200	40		04/07/10 16:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		04/07/10 15:40	75-69-4	
Vinyl chloride	525	ug/L	40.0	40		04/07/10 16:04	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		04/07/10 15:40	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		04/07/10 15:40	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1		04/07/10 15:40	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		04/07/10 15:40	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		04/07/10 15:40	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope JAMESTOWN

Pace Project No.: 3025383

Sample: PRIMARY EFF		Lab ID: 3025383002		Collected: 03/31/10 09:15		Received: 04/01/10 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		04/07/10 16:28	67-64-1		
Benzene	ND	ug/L	1.0	1		04/07/10 16:28	71-43-2		
Bromodichloromethane	ND	ug/L	5.0	1		04/07/10 16:28	75-27-4		
Bromoform	ND	ug/L	5.0	1		04/07/10 16:28	75-25-2		
Bromomethane	ND	ug/L	5.0	1		04/07/10 16:28	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		04/07/10 16:28	78-93-3		
Carbon disulfide	ND	ug/L	5.0	1		04/07/10 16:28	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		04/07/10 16:28	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		04/07/10 16:28	108-90-7		
Chloroethane	ND	ug/L	5.0	1		04/07/10 16:28	75-00-3		
Chloroform	ND	ug/L	5.0	1		04/07/10 16:28	67-66-3		
Chloromethane	ND	ug/L	5.0	1		04/07/10 16:28	74-87-3		
Dibromochloromethane	ND	ug/L	5.0	1		04/07/10 16:28	124-48-1		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/07/10 16:28	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/07/10 16:28	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/07/10 16:28	106-46-7		
1,1-Dichloroethane	ND	ug/L	5.0	1		04/07/10 16:28	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		04/07/10 16:28	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		04/07/10 16:28	75-35-4		
cis-1,2-Dichloroethene	157	ug/L	5.0	1		04/07/10 16:28	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/07/10 16:28	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		04/07/10 16:28	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/07/10 16:28	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/07/10 16:28	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		04/07/10 16:28	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		04/07/10 16:28	591-78-6		
Methylene Chloride	ND	ug/L	5.0	1		04/07/10 16:28	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/07/10 16:28	108-10-1		
Styrene	ND	ug/L	5.0	1		04/07/10 16:28	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/07/10 16:28	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		04/07/10 16:28	127-18-4		
Toluene	ND	ug/L	5.0	1		04/07/10 16:28	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/07/10 16:28	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/07/10 16:28	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		04/07/10 16:28	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		04/07/10 16:28	75-69-4		
Vinyl chloride	22.9	ug/L	1.0	1		04/07/10 16:28	75-01-4		
m&p-Xylene	ND	ug/L	5.0	1		04/07/10 16:28	1330-20-7		
o-Xylene	ND	ug/L	5.0	1		04/07/10 16:28	95-47-6		
4-Bromofluorobenzene (S)	96	%	70-130	1		04/07/10 16:28	460-00-4		
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		04/07/10 16:28	17060-07-0		
Toluene-d8 (S)	94	%	70-130	1		04/07/10 16:28	2037-26-5		

ANALYTICAL RESULTS

Project: Essex-Hope JAMESTOWN

Pace Project No.: 3025383

Sample: POST CARB		Lab ID: 3025383003		Collected: 03/31/10 09:20		Received: 04/01/10 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		04/07/10 17:17	67-64-1		
Benzene	ND	ug/L	1.0	1		04/07/10 17:17	71-43-2		
Bromodichloromethane	ND	ug/L	5.0	1		04/07/10 17:17	75-27-4		
Bromoform	ND	ug/L	5.0	1		04/07/10 17:17	75-25-2		
Bromomethane	ND	ug/L	5.0	1		04/07/10 17:17	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		04/07/10 17:17	78-93-3		
Carbon disulfide	ND	ug/L	5.0	1		04/07/10 17:17	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		04/07/10 17:17	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		04/07/10 17:17	108-90-7		
Chloroethane	ND	ug/L	5.0	1		04/07/10 17:17	75-00-3		
Chloroform	ND	ug/L	5.0	1		04/07/10 17:17	67-66-3		
Chloromethane	ND	ug/L	5.0	1		04/07/10 17:17	74-87-3		
Dibromochloromethane	ND	ug/L	5.0	1		04/07/10 17:17	124-48-1		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		04/07/10 17:17	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		04/07/10 17:17	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		04/07/10 17:17	106-46-7		
1,1-Dichloroethane	ND	ug/L	5.0	1		04/07/10 17:17	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		04/07/10 17:17	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		04/07/10 17:17	75-35-4		
cis-1,2-Dichloroethene	19.4	ug/L	5.0	1		04/07/10 17:17	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		04/07/10 17:17	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		04/07/10 17:17	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		04/07/10 17:17	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		04/07/10 17:17	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		04/07/10 17:17	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		04/07/10 17:17	591-78-6		
Methylene Chloride	ND	ug/L	5.0	1		04/07/10 17:17	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		04/07/10 17:17	108-10-1		
Styrene	ND	ug/L	5.0	1		04/07/10 17:17	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		04/07/10 17:17	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		04/07/10 17:17	127-18-4		
Toluene	ND	ug/L	5.0	1		04/07/10 17:17	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		04/07/10 17:17	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		04/07/10 17:17	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		04/07/10 17:17	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		04/07/10 17:17	75-69-4		
Vinyl chloride	22.7	ug/L	1.0	1		04/07/10 17:17	75-01-4		
m&p-Xylene	ND	ug/L	5.0	1		04/07/10 17:17	1330-20-7		
o-Xylene	ND	ug/L	5.0	1		04/07/10 17:17	95-47-6		
4-Bromofluorobenzene (S)	97	%	70-130	1		04/07/10 17:17	460-00-4		
1,2-Dichloroethane-d4 (S)	118	%	70-130	1		04/07/10 17:17	17060-07-0		
Toluene-d8 (S)	96	%	70-130	1		04/07/10 17:17	2037-26-5		

ANALYTICAL RESULTS

Project: Essex-Hope JAMESTOWN

Pace Project No.: 3025383

Sample: TB-01		Lab ID: 3025383004		Collected: 03/31/10 00:00		Received: 04/01/10 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			04/07/10 14:27	67-64-1		
Benzene	ND ug/L	1.0	1			04/07/10 14:27	71-43-2		
Bromodichloromethane	ND ug/L	5.0	1			04/07/10 14:27	75-27-4		
Bromoform	ND ug/L	5.0	1			04/07/10 14:27	75-25-2		
Bromomethane	ND ug/L	5.0	1			04/07/10 14:27	74-83-9		
2-Butanone (MEK)	ND ug/L	10.0	1			04/07/10 14:27	78-93-3		
Carbon disulfide	ND ug/L	5.0	1			04/07/10 14:27	75-15-0		
Carbon tetrachloride	ND ug/L	5.0	1			04/07/10 14:27	56-23-5		
Chlorobenzene	ND ug/L	5.0	1			04/07/10 14:27	108-90-7		
Chloroethane	ND ug/L	5.0	1			04/07/10 14:27	75-00-3		
Chloroform	ND ug/L	5.0	1			04/07/10 14:27	67-66-3		
Chloromethane	ND ug/L	5.0	1			04/07/10 14:27	74-87-3		
Dibromochloromethane	ND ug/L	5.0	1			04/07/10 14:27	124-48-1		
1,2-Dichlorobenzene	ND ug/L	5.0	1			04/07/10 14:27	95-50-1		
1,3-Dichlorobenzene	ND ug/L	5.0	1			04/07/10 14:27	541-73-1		
1,4-Dichlorobenzene	ND ug/L	5.0	1			04/07/10 14:27	106-46-7		
1,1-Dichloroethane	ND ug/L	5.0	1			04/07/10 14:27	75-34-3		
1,2-Dichloroethane	ND ug/L	5.0	1			04/07/10 14:27	107-06-2		
1,1-Dichloroethene	ND ug/L	5.0	1			04/07/10 14:27	75-35-4		
cis-1,2-Dichloroethene	ND ug/L	5.0	1			04/07/10 14:27	156-59-2		
trans-1,2-Dichloroethene	ND ug/L	5.0	1			04/07/10 14:27	156-60-5		
1,2-Dichloropropane	ND ug/L	5.0	1			04/07/10 14:27	78-87-5		
cis-1,3-Dichloropropene	ND ug/L	5.0	1			04/07/10 14:27	10061-01-5		
trans-1,3-Dichloropropene	ND ug/L	5.0	1			04/07/10 14:27	10061-02-6		
Ethylbenzene	ND ug/L	5.0	1			04/07/10 14:27	100-41-4		
2-Hexanone	ND ug/L	10.0	1			04/07/10 14:27	591-78-6		
Methylene Chloride	ND ug/L	5.0	1			04/07/10 14:27	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND ug/L	10.0	1			04/07/10 14:27	108-10-1		
Styrene	ND ug/L	5.0	1			04/07/10 14:27	100-42-5		
1,1,2,2-Tetrachloroethane	ND ug/L	5.0	1			04/07/10 14:27	79-34-5		
Tetrachloroethene	ND ug/L	5.0	1			04/07/10 14:27	127-18-4		
Toluene	ND ug/L	5.0	1			04/07/10 14:27	108-88-3		
1,1,1-Trichloroethane	ND ug/L	5.0	1			04/07/10 14:27	71-55-6		
1,1,2-Trichloroethane	ND ug/L	5.0	1			04/07/10 14:27	79-00-5		
Trichloroethene	ND ug/L	5.0	1			04/07/10 14:27	79-01-6		
Trichlorofluoromethane	ND ug/L	5.0	1			04/07/10 14:27	75-69-4		
Vinyl chloride	ND ug/L	1.0	1			04/07/10 14:27	75-01-4		
m&p-Xylene	ND ug/L	5.0	1			04/07/10 14:27	1330-20-7		
o-Xylene	ND ug/L	5.0	1			04/07/10 14:27	95-47-6		
4-Bromofluorobenzene (S)	99 %	70-130	1			04/07/10 14:27	460-00-4		
1,2-Dichloroethane-d4 (S)	109 %	70-130	1			04/07/10 14:27	17060-07-0		
Toluene-d8 (S)	94 %	70-130	1			04/07/10 14:27	2037-26-5		

QUALITY CONTROL DATA

Project: Essex-Hope JAMESTOWN
Pace Project No.: 3025383

QC Batch: MSV/5470 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3025383001, 3025383002, 3025383003, 3025383004

METHOD BLANK: 157799 Matrix: Water
Associated Lab Samples: 3025383001, 3025383002, 3025383003, 3025383004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	04/07/10 11:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	04/07/10 11:12	
1,1,2-Trichloroethane	ug/L	ND	5.0	04/07/10 11:12	
1,1-Dichloroethane	ug/L	ND	5.0	04/07/10 11:12	
1,1-Dichloroethene	ug/L	ND	5.0	04/07/10 11:12	
1,2-Dichlorobenzene	ug/L	ND	5.0	04/07/10 11:12	
1,2-Dichloroethane	ug/L	ND	5.0	04/07/10 11:12	
1,2-Dichloropropane	ug/L	ND	5.0	04/07/10 11:12	
1,3-Dichlorobenzene	ug/L	ND	5.0	04/07/10 11:12	
1,4-Dichlorobenzene	ug/L	ND	5.0	04/07/10 11:12	
2-Butanone (MEK)	ug/L	ND	10.0	04/07/10 11:12	
2-Hexanone	ug/L	ND	10.0	04/07/10 11:12	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	04/07/10 11:12	
Acetone	ug/L	ND	10.0	04/07/10 11:12	
Benzene	ug/L	ND	1.0	04/07/10 11:12	
Bromodichloromethane	ug/L	ND	5.0	04/07/10 11:12	
Bromoform	ug/L	ND	5.0	04/07/10 11:12	
Bromomethane	ug/L	ND	5.0	04/07/10 11:12	
Carbon disulfide	ug/L	ND	5.0	04/07/10 11:12	
Carbon tetrachloride	ug/L	ND	5.0	04/07/10 11:12	
Chlorobenzene	ug/L	ND	5.0	04/07/10 11:12	
Chloroethane	ug/L	ND	5.0	04/07/10 11:12	
Chloroform	ug/L	ND	5.0	04/07/10 11:12	
Chloromethane	ug/L	ND	5.0	04/07/10 11:12	
cis-1,2-Dichloroethene	ug/L	ND	5.0	04/07/10 11:12	
cis-1,3-Dichloropropene	ug/L	ND	5.0	04/07/10 11:12	
Dibromochloromethane	ug/L	ND	5.0	04/07/10 11:12	
Ethylbenzene	ug/L	ND	5.0	04/07/10 11:12	
m&p-Xylene	ug/L	ND	5.0	04/07/10 11:12	
Methylene Chloride	ug/L	ND	5.0	04/07/10 11:12	
o-Xylene	ug/L	ND	5.0	04/07/10 11:12	
Styrene	ug/L	ND	5.0	04/07/10 11:12	
Tetrachloroethene	ug/L	ND	5.0	04/07/10 11:12	
Toluene	ug/L	ND	5.0	04/07/10 11:12	
trans-1,2-Dichloroethene	ug/L	ND	5.0	04/07/10 11:12	
trans-1,3-Dichloropropene	ug/L	ND	5.0	04/07/10 11:12	
Trichloroethene	ug/L	ND	5.0	04/07/10 11:12	
Trichlorofluoromethane	ug/L	ND	5.0	04/07/10 11:12	
Vinyl chloride	ug/L	ND	1.0	04/07/10 11:12	
1,2-Dichloroethane-d4 (S)	%	108	70-130	04/07/10 11:12	
4-Bromofluorobenzene (S)	%	99	70-130	04/07/10 11:12	
Toluene-d8 (S)	%	96	70-130	04/07/10 11:12	

QUALITY CONTROL DATA

Project: Essex-Hope JAMESTOWN

Pace Project No.: 3025383

LABORATORY CONTROL SAMPLE: 157800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.6	93	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.5	87	70-130	
1,1,2-Trichloroethane	ug/L	20	18.0	90	70-130	
1,1-Dichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethene	ug/L	20	14.2	71	70-130	
1,2-Dichlorobenzene	ug/L	20	18.2	91	70-130	
1,2-Dichloroethane	ug/L	20	19.4	97	70-130	
1,2-Dichloropropane	ug/L	20	17.4	87	70-130	
1,3-Dichlorobenzene	ug/L	20	18.5	92	70-130	
1,4-Dichlorobenzene	ug/L	20	18.2	91	70-130	
2-Butanone (MEK)	ug/L	20	18.0	90	70-130	
2-Hexanone	ug/L	20	18.8	94	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.3	91	70-130	
Acetone	ug/L	20	21.1	105	70-130	
Benzene	ug/L	20	18.2	91	70-130	
Bromodichloromethane	ug/L	20	17.7	88	70-130	
Bromoform	ug/L	20	16.5	83	70-130	
Bromomethane	ug/L	20	38.3	191	70-130	L0
Carbon disulfide	ug/L	20	25.0	125	70-130	
Carbon tetrachloride	ug/L	20	16.9	85	70-130	
Chlorobenzene	ug/L	20	18.4	92	70-130	
Chloroethane	ug/L	20	20.3	102	70-130	
Chloroform	ug/L	20	19.7	98	70-130	
Chloromethane	ug/L	20	22.4	112	70-130	
cis-1,2-Dichloroethene	ug/L	20	19.0	95	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.2	86	70-130	
Dibromochloromethane	ug/L	20	18.0	90	70-130	
Ethylbenzene	ug/L	20	18.8	94	70-130	
m&p-Xylene	ug/L	40	35.5	89	70-130	
Methylene Chloride	ug/L	20	18.9	94	70-130	
o-Xylene	ug/L	20	17.9	89	70-130	
Styrene	ug/L	20	18.0	90	70-130	
Tetrachloroethene	ug/L	20	17.7	89	70-130	
Toluene	ug/L	20	18.2	91	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.3	87	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.8	89	70-130	
Trichloroethene	ug/L	20	17.2	86	70-130	
Trichlorofluoromethane	ug/L	20	20.1	101	70-130	
Vinyl chloride	ug/L	20	24.1	121	70-130	
1,2-Dichloroethane-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

QUALIFIERS

Project: Essex-Hope JAMESTOWN

Pace Project No.: 3025383

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.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope JAMESTOWN

Pace Project No.: 3025383

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3025383001	PRE CARB	EPA 8260	MSV/5470		
3025383002	PRIMARY EFF	EPA 8260	MSV/5470		
3025383003	POST CARB	EPA 8260	MSV/5470		
3025383004	TB-01	EPA 8260	MSV/5470		

CHAIN-OF-CUSTODY / Analytical Request Document

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



Section A Required Client Information: Company: URS CORP Address: 500 HOLIDAY BLVD, STE 300, PITTSBURGH, PA 15220 Email To: URS		Section B Required Project Information: Report To: MARK DOWIAK Copy To: VALERIE SIBETO Purchase Order No.: 415686052 Project Name: ESSEX/HOPE DAMS ERMN Project Number: 415686052, 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: NY STATE:	
Section D Required Client Information: Matrix Codes: Drinking Water: DW Water: WT Wastewater: WW Product: P Soil/Solid: SL Oil: OL Wipe: WP Air: AR Tissue: TS Other: OT SAMPLE ID (A-Z, 0-9 / -)		Requested Analysis Filtered (Y/N)			

Section D Required Client Information		Matrix Codes MATRIX / CODE		MATRIX CODE (see valid codes to left)		SAMPLE TYPE (G=GRAB C=COMP)		COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives							Analysis Test ↑		Y / N ↑														Residual Chlorine (Y/N)		Pace Project No. / Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
SAMPLE ID (A-Z, 0-9 / -)		Matrix Codes DW Water WT Waste Water WW Product SL Soil/Solid OL Oil Wipe AR Air TS Tissue OT Other		COMPOSITE START		COMPOSITE END/GRAB		DATE		TIME		DATE		TIME		Unpreserved		H ₂ SO ₄		HNO ₃		HCl		NaOH		Na ₂ S ₂ O ₃		Methanol		Other		Y / N ↑		Analysis Test ↑		Y / N ↑		Residual Chlorine (Y/N)		Pace Project No. / Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
1	PRE-CARB	WTG		WTG		WTG		33		10		09		10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

ADDITIONAL COMMENTS: COMPOSITE FOR (4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE	RELINQUISHED BY / AFFILIATION: VALERIE SIBETO / URS	DATE: 3.31.10	TIME: 1115	ACCEPTED BY / AFFILIATION: VALERIE SIBETO	DATE: 3.31.10	TIME: 1115	SAMPLE CONDITIONS: Y N Y
	Temp in °C: 6.0	Received on: Y	Sealed Cooler: Y	Custody: N	Samples Intact: Y		

SAMPLER NAME AND SIGNATURE: VALERIE SIBETO		DATE Signed: 3.31.10
PRINT Name of SAMPLER: VALERIE SIBETO		DATE Signed: 3.31.10
SIGNATURE of SAMPLER: VALERIE SIBETO		DATE Signed: 3.31.10



Sample Condition Upon Receipt

Client Name: WKS

Project # 3025383

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

Tracking #: _____

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

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

Thermometer Used 3 5

Type of Ice: ☒ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temperature 6.0

Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: 4-1-10

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:	<u>NA</u>	
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: <u>VOA</u> , coliform, TOC, O&G, WI-DRO (water)	☒ Yes ☐ No	Initial when completed <u>[Signature]</u> 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: [Signature]

Date: 4/1/10

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)

May 11, 2010

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

RE: Project: Essex-Hope 41568652.10000
Pace Project No.: 3026987

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on May 01, 2010. 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,



Timothy Reed

timothy.reed@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: Essex-Hope 41568652.10000

Pace Project No.: 3026987

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 #: 65-00282

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

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

Florida/NELAC Certification #: E87683

Delaware Certification

Connecticut Certification #: PH 0694

Colorado Certification

California/NELAC Certification #: 04222CA

Arkansas Certification

Arizona Certification #: AZ0734

Alabama Certification #: 41590

REPORT OF LABORATORY ANALYSIS

Page 2 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568652.10000

Pace Project No.: 3026987

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3026987001	PRE-CARB	EPA 8260	EAC	42	PASI-PA
3026987002	PRIMARY-EFF	EPA 8260	EAC	42	PASI-PA
3026987003	POST-CARB Comp	EPA 8260	EAC	42	PASI-PA
3026987004	TB-01	EPA 8260	EAC	42	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Essex-Hope 41568652.10000

Pace Project No.: 3026987

Sample: PRE-CARB		Lab ID: 3026987001	Collected: 04/30/10 08:10	Received: 05/01/10 11:30	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		05/06/10 15:04	67-64-1	
Benzene	6.1	ug/L	1.0	1		05/06/10 15:04	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/06/10 15:04	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/06/10 15:04	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/06/10 15:04	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/06/10 15:04	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/06/10 15:04	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/06/10 15:04	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/06/10 15:04	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/06/10 15:04	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/06/10 15:04	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/06/10 15:04	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/06/10 15:04	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/06/10 15:04	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/06/10 15:04	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/06/10 15:04	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/06/10 15:04	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/06/10 15:04	107-06-2	
1,1-Dichloroethene	12.5	ug/L	5.0	1		05/06/10 15:04	75-35-4	
cis-1,2-Dichloroethene	3670	ug/L	100	20		05/06/10 15:28	156-59-2	
trans-1,2-Dichloroethene	24.8	ug/L	5.0	1		05/06/10 15:04	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/06/10 15:04	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/06/10 15:04	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/06/10 15:04	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/06/10 15:04	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/06/10 15:04	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		05/06/10 15:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/06/10 15:04	108-10-1	
Styrene	ND	ug/L	5.0	1		05/06/10 15:04	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/06/10 15:04	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/06/10 15:04	127-18-4	
Toluene	ND	ug/L	5.0	1		05/06/10 15:04	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/06/10 15:04	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/06/10 15:04	79-00-5	
Trichloroethene	1760	ug/L	100	20		05/06/10 15:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/06/10 15:04	75-69-4	
Vinyl chloride	543	ug/L	20.0	20		05/06/10 15:28	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/06/10 15:04	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/06/10 15:04	95-47-6	
4-Bromofluorobenzene (S)	105	%	70-130	1		05/06/10 15:04	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		05/06/10 15:04	17060-07-0	
Toluene-d8 (S)	93	%	70-130	1		05/06/10 15:04	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope 41568652.10000

Pace Project No.: 3026987

Sample: PRIMARY-EFF		Lab ID: 3026987002	Collected: 04/30/10 08:15	Received: 05/01/10 11:30	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		05/06/10 15:52	67-64-1	
Benzene	ND	ug/L	1.0	1		05/06/10 15:52	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/06/10 15:52	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/06/10 15:52	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/06/10 15:52	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/06/10 15:52	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/06/10 15:52	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/06/10 15:52	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/06/10 15:52	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/06/10 15:52	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/06/10 15:52	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/06/10 15:52	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/06/10 15:52	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/06/10 15:52	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/06/10 15:52	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/06/10 15:52	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/06/10 15:52	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/06/10 15:52	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/06/10 15:52	75-35-4	
cis-1,2-Dichloroethene	68.6	ug/L	5.0	1		05/06/10 15:52	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/06/10 15:52	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/06/10 15:52	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/06/10 15:52	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/06/10 15:52	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/06/10 15:52	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/06/10 15:52	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		05/06/10 15:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/06/10 15:52	108-10-1	
Styrene	ND	ug/L	5.0	1		05/06/10 15:52	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/06/10 15:52	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/06/10 15:52	127-18-4	
Toluene	ND	ug/L	5.0	1		05/06/10 15:52	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/06/10 15:52	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/06/10 15:52	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/06/10 15:52	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/06/10 15:52	75-69-4	
Vinyl chloride	465	ug/L	40.0	40		05/06/10 16:16	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/06/10 15:52	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/06/10 15:52	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130	1		05/06/10 15:52	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1		05/06/10 15:52	17060-07-0	
Toluene-d8 (S)	93	%	70-130	1		05/06/10 15:52	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope 41568652.10000

Pace Project No.: 3026987

Sample: POST-CARB Comp **Lab ID: 3026987003** Collected: 04/30/10 00:00 Received: 05/01/10 11:30 Matrix: Water

Comments: • Sample was composited prior to VOA 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		05/06/10 16:41	67-64-1	
Benzene	ND	ug/L	1.0	1		05/06/10 16:41	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		05/06/10 16:41	75-27-4	
Bromoform	ND	ug/L	5.0	1		05/06/10 16:41	75-25-2	
Bromomethane	ND	ug/L	5.0	1		05/06/10 16:41	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		05/06/10 16:41	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		05/06/10 16:41	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		05/06/10 16:41	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		05/06/10 16:41	108-90-7	
Chloroethane	ND	ug/L	5.0	1		05/06/10 16:41	75-00-3	
Chloroform	ND	ug/L	5.0	1		05/06/10 16:41	67-66-3	
Chloromethane	ND	ug/L	5.0	1		05/06/10 16:41	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		05/06/10 16:41	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		05/06/10 16:41	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		05/06/10 16:41	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		05/06/10 16:41	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		05/06/10 16:41	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		05/06/10 16:41	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		05/06/10 16:41	75-35-4	
cis-1,2-Dichloroethene	18.1	ug/L	5.0	1		05/06/10 16:41	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		05/06/10 16:41	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		05/06/10 16:41	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		05/06/10 16:41	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		05/06/10 16:41	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		05/06/10 16:41	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		05/06/10 16:41	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		05/06/10 16:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		05/06/10 16:41	108-10-1	
Styrene	ND	ug/L	5.0	1		05/06/10 16:41	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		05/06/10 16:41	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		05/06/10 16:41	127-18-4	
Toluene	ND	ug/L	5.0	1		05/06/10 16:41	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		05/06/10 16:41	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		05/06/10 16:41	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		05/06/10 16:41	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		05/06/10 16:41	75-69-4	
Vinyl chloride	9.7	ug/L	1.0	1		05/06/10 16:41	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		05/06/10 16:41	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		05/06/10 16:41	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130	1		05/06/10 16:41	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		05/06/10 16:41	17060-07-0	
Toluene-d8 (S)	92	%	70-130	1		05/06/10 16:41	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope 41568652.10000

Pace Project No.: 3026987

Sample: TB-01		Lab ID: 3026987004	Collected: 04/30/10 00:00	Received: 05/01/10 11:30	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		05/06/10 14:39	67-64-1	
Benzene	ND ug/L		1.0	1		05/06/10 14:39	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		05/06/10 14:39	75-27-4	
Bromoform	ND ug/L		5.0	1		05/06/10 14:39	75-25-2	
Bromomethane	ND ug/L		5.0	1		05/06/10 14:39	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		05/06/10 14:39	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		05/06/10 14:39	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		05/06/10 14:39	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		05/06/10 14:39	108-90-7	
Chloroethane	ND ug/L		5.0	1		05/06/10 14:39	75-00-3	
Chloroform	ND ug/L		5.0	1		05/06/10 14:39	67-66-3	
Chloromethane	ND ug/L		5.0	1		05/06/10 14:39	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		05/06/10 14:39	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		05/06/10 14:39	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		05/06/10 14:39	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		05/06/10 14:39	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		05/06/10 14:39	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		05/06/10 14:39	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		05/06/10 14:39	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		05/06/10 14:39	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		05/06/10 14:39	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		05/06/10 14:39	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		05/06/10 14:39	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		05/06/10 14:39	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		05/06/10 14:39	100-41-4	
2-Hexanone	ND ug/L		10.0	1		05/06/10 14:39	591-78-6	
Methylene Chloride	ND ug/L		5.0	1		05/06/10 14:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		05/06/10 14:39	108-10-1	
Styrene	ND ug/L		5.0	1		05/06/10 14:39	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		05/06/10 14:39	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		05/06/10 14:39	127-18-4	
Toluene	ND ug/L		5.0	1		05/06/10 14:39	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		05/06/10 14:39	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		05/06/10 14:39	79-00-5	
Trichloroethene	ND ug/L		5.0	1		05/06/10 14:39	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		05/06/10 14:39	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		05/06/10 14:39	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		05/06/10 14:39	179601-23-1	
o-Xylene	ND ug/L		5.0	1		05/06/10 14:39	95-47-6	
4-Bromofluorobenzene (S)	105 %		70-130	1		05/06/10 14:39	460-00-4	
1,2-Dichloroethane-d4 (S)	103 %		70-130	1		05/06/10 14:39	17060-07-0	
Toluene-d8 (S)	92 %		70-130	1		05/06/10 14:39	2037-26-5	

QUALITY CONTROL DATA

Project: Essex-Hope 41568652.10000

Pace Project No.: 3026987

QC Batch:	MSV/5750	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples: 3026987001, 3026987002, 3026987003, 3026987004			

METHOD BLANK:	167021	Matrix:	Water
---------------	--------	---------	-------

Associated Lab Samples: 3026987001, 3026987002, 3026987003, 3026987004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	05/06/10 10:11	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	05/06/10 10:11	
1,1,2-Trichloroethane	ug/L	ND	5.0	05/06/10 10:11	
1,1-Dichloroethane	ug/L	ND	5.0	05/06/10 10:11	
1,1-Dichloroethene	ug/L	ND	5.0	05/06/10 10:11	
1,2-Dichlorobenzene	ug/L	ND	5.0	05/06/10 10:11	
1,2-Dichloroethane	ug/L	ND	5.0	05/06/10 10:11	
1,2-Dichloropropane	ug/L	ND	5.0	05/06/10 10:11	
1,3-Dichlorobenzene	ug/L	ND	5.0	05/06/10 10:11	
1,4-Dichlorobenzene	ug/L	ND	5.0	05/06/10 10:11	
2-Butanone (MEK)	ug/L	ND	10.0	05/06/10 10:11	
2-Hexanone	ug/L	ND	10.0	05/06/10 10:11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	05/06/10 10:11	
Acetone	ug/L	ND	10.0	05/06/10 10:11	
Benzene	ug/L	ND	1.0	05/06/10 10:11	
Bromodichloromethane	ug/L	ND	5.0	05/06/10 10:11	
Bromoform	ug/L	ND	5.0	05/06/10 10:11	
Bromomethane	ug/L	ND	5.0	05/06/10 10:11	
Carbon disulfide	ug/L	ND	5.0	05/06/10 10:11	
Carbon tetrachloride	ug/L	ND	5.0	05/06/10 10:11	
Chlorobenzene	ug/L	ND	5.0	05/06/10 10:11	
Chloroethane	ug/L	ND	5.0	05/06/10 10:11	
Chloroform	ug/L	ND	5.0	05/06/10 10:11	
Chloromethane	ug/L	ND	5.0	05/06/10 10:11	
cis-1,2-Dichloroethene	ug/L	ND	5.0	05/06/10 10:11	
cis-1,3-Dichloropropene	ug/L	ND	5.0	05/06/10 10:11	
Dibromochloromethane	ug/L	ND	5.0	05/06/10 10:11	
Ethylbenzene	ug/L	ND	5.0	05/06/10 10:11	
m&p-Xylene	ug/L	ND	5.0	05/06/10 10:11	
Methylene Chloride	ug/L	ND	5.0	05/06/10 10:11	
o-Xylene	ug/L	ND	5.0	05/06/10 10:11	
Styrene	ug/L	ND	5.0	05/06/10 10:11	
Tetrachloroethene	ug/L	ND	5.0	05/06/10 10:11	
Toluene	ug/L	ND	5.0	05/06/10 10:11	
trans-1,2-Dichloroethene	ug/L	ND	5.0	05/06/10 10:11	
trans-1,3-Dichloropropene	ug/L	ND	5.0	05/06/10 10:11	
Trichloroethene	ug/L	ND	5.0	05/06/10 10:11	
Trichlorofluoromethane	ug/L	ND	5.0	05/06/10 10:11	
Vinyl chloride	ug/L	ND	1.0	05/06/10 10:11	
1,2-Dichloroethane-d4 (S)	%	107	70-130	05/06/10 10:11	
4-Bromofluorobenzene (S)	%	104	70-130	05/06/10 10:11	
Toluene-d8 (S)	%	95	70-130	05/06/10 10:11	

QUALITY CONTROL DATA

Project: Essex-Hope 41568652.10000

Pace Project No.: 3026987

LABORATORY CONTROL SAMPLE: 167022

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.3	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	15.0	75	70-130	
1,1,2-Trichloroethane	ug/L	20	16.5	82	70-130	
1,1-Dichloroethane	ug/L	20	20.3	102	70-130	
1,1-Dichloroethene	ug/L	20	16.2	81	70-130	
1,2-Dichlorobenzene	ug/L	20	16.8	84	70-130	
1,2-Dichloroethane	ug/L	20	19.9	100	70-130	
1,2-Dichloropropane	ug/L	20	16.2	81	70-130	
1,3-Dichlorobenzene	ug/L	20	17.3	87	70-130	
1,4-Dichlorobenzene	ug/L	20	17.3	87	70-130	
2-Butanone (MEK)	ug/L	20	18.2	91	70-130	
2-Hexanone	ug/L	20	18.1	91	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	16.6	83	70-130	
Acetone	ug/L	20	26.6	133	70-130	L0
Benzene	ug/L	20	17.0	85	70-130	
Bromodichloromethane	ug/L	20	16.9	84	70-130	
Bromoform	ug/L	20	16.8	84	70-130	
Bromomethane	ug/L	20	54.9	274	70-130	L0
Carbon disulfide	ug/L	20	25.0	125	70-130	
Carbon tetrachloride	ug/L	20	18.2	91	70-130	
Chlorobenzene	ug/L	20	18.0	90	70-130	
Chloroethane	ug/L	20	22.2	111	70-130	
Chloroform	ug/L	20	20.0	100	70-130	
Chloromethane	ug/L	20	21.3	106	70-130	
cis-1,2-Dichloroethene	ug/L	20	19.3	96	70-130	
cis-1,3-Dichloropropene	ug/L	20	16.4	82	70-130	
Dibromochloromethane	ug/L	20	17.6	88	70-130	
Ethylbenzene	ug/L	20	17.8	89	70-130	
m&p-Xylene	ug/L	40	34.5	86	70-130	
Methylene Chloride	ug/L	20	18.4	92	70-130	
o-Xylene	ug/L	20	17.6	88	70-130	
Styrene	ug/L	20	16.8	84	70-130	
Tetrachloroethene	ug/L	20	18.8	94	70-130	
Toluene	ug/L	20	17.1	86	70-130	
trans-1,2-Dichloroethene	ug/L	20	18.9	95	70-130	
trans-1,3-Dichloropropene	ug/L	20	16.7	83	70-130	
Trichloroethene	ug/L	20	18.2	91	70-130	
Trichlorofluoromethane	ug/L	20	22.0	110	70-130	
Vinyl chloride	ug/L	20	21.8	109	70-130	
1,2-Dichloroethane-d4 (S)	%			106	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			93	70-130	

QUALIFIERS

Project: Essex-Hope 41568652.10000

Pace Project No.: 3026987

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.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568652.10000

Pace Project No.: 3026987

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3026987001	PRE-CARB	EPA 8260	MSV/5750		
3026987002	PRIMARY-EFF	EPA 8260	MSV/5750		
3026987003	POST-CARB Comp	EPA 8260	MSV/5750		
3026987004	TB-01	EPA 8260	MSV/5750		

CHAIN-OF-CUSTODY / Analytical Request Document

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



www.pacelabs.com

Section A Required Client Information: Company: URS CORP. Address: POSTER PARK 4, STE 300 501 HOLLIDAY DR. PITTSBURGH, PA 15220 Email To: _____		Section B Required Project Information: Report To: MARY DENIAK Copy To: VALERIE SIBETO Purchase Order No.: 41568652 Project Manager: ESSECHADE JAMES W Project Number: 41568652.10000 Requested Due Date (AT): STANDARD		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		Page: _____ of _____ 1349075	

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE ID (A-Z, 0-9 / -)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)											
					COMPOSITE START	COMPOSITE END/GRAB																
1	PRE-CARB	DW	WTG	WTG	4:30:10	08:10	4:30:10	2	Unpreserved	Analysis Test												
2	PRIMARY-EFF	WT				08:15			H ₂ SO ₄													
3	POST-CARB	WW				08:20			HCl													
4	POST-CARB	P				08:50			Na ₂ S ₂ O ₃													
5	POST-CARB	SL				09:20			NaOH													
6	POST-CARB	OL				09:50			HNO ₃													
7	TB-01	WP				4:30:10			Other													
8		AR																				
9		TS																				
10		OT																				
11																						
12																						

ADDITIONAL COMMENTS: COMPOSITE FINE (4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE.		RELINQUISHED BY / AFFILIATION: Pace DATE: 4:30:10		ACCEPTED BY / AFFILIATION: Pace DATE: 5-1-10 11:30		SAMPLE CONDITIONS: Received on Ice (Y/N): Y Custody Sealed Cooler (Y/N): Y Samples Intact (Y/N): Y	
SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: VALERIE SIBETO SIGNATURE of SAMPLER: <i>Valerie Sibeto</i>		DATE Signed (MM/DD/YY): 4.30.10		Temp in °C: 6.9		Pace Project No. / Lab I.D.: 3026987	

**Sample Condition Upon Receipt**Client Name: URSProject # 3026987

RES

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____Tracking #: 8672 5538 1370Custody 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 5Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begunCooler Temperature 6.9

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: RES 5-1-10

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: <u>water</u>		
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, WL-DRO (water)	☐ Yes ☐ No	Initial when completed <u>RES</u> Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☒ Yes ☐ No ☐ N/A	15. <u>1 of 2 trip blank vials</u>
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: _____

Date: 4/3/10

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)

June 14, 2010

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

RE: Project: Essex-Hope
Pace Project No.: 3028535

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on May 28, 2010. 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.

Cooler temperature 9.6 ° C upon receipt. Ice was present.

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

Sincerely,



Timothy Reed

timothy.reed@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 12

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: Essex-Hope

Pace Project No.: 3028535

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 #: 65-00282

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

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

Florida/NELAC Certification #: E87683

Delaware Certification

Connecticut Certification #: PH 0694

Colorado Certification

California/NELAC Certification #: 04222CA

Arkansas Certification

Arizona Certification #: AZ0734

Alabama Certification #: 41590

REPORT OF LABORATORY ANALYSIS

Page 2 of 12

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: Essex-Hope

Pace Project No.: 3028535

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3028535001	PRE-CARB	EPA 8260	JHC	42	PASI-PA
3028535002	PRIMARY-EFF	EPA 8260	JHC	42	PASI-PA
3028535003	POST-CARB	EPA 8260	JHC	42	PASI-PA
3028535004	TB-01	EPA 8260	JHC	42	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 12

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3028535

Sample: PRE-CARB		Lab ID: 3028535001		Collected: 05/27/10 09:10		Received: 05/28/10 10:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Acetone	1540	ug/L	500	50		06/02/10 13:12	67-64-1		
Benzene	12.7	ug/L	1.0	1		06/01/10 18:06	71-43-2		
Bromodichloromethane	ND	ug/L	5.0	1		06/01/10 18:06	75-27-4		
Bromoform	ND	ug/L	5.0	1		06/01/10 18:06	75-25-2		
Bromomethane	ND	ug/L	5.0	1		06/01/10 18:06	74-83-9		
2-Butanone (MEK)	10	ug/L	10.0	1		06/01/10 18:06	78-93-3		
Carbon disulfide	ND	ug/L	5.0	1		06/01/10 18:06	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		06/01/10 18:06	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		06/01/10 18:06	108-90-7		
Chloroethane	ND	ug/L	5.0	1		06/01/10 18:06	75-00-3		
Chloroform	ND	ug/L	5.0	1		06/01/10 18:06	67-66-3		
Chloromethane	ND	ug/L	5.0	1		06/01/10 18:06	74-87-3		
Dibromochloromethane	ND	ug/L	5.0	1		06/01/10 18:06	124-48-1		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/01/10 18:06	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/01/10 18:06	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/01/10 18:06	106-46-7		
1,1-Dichloroethane	ND	ug/L	5.0	1		06/01/10 18:06	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		06/01/10 18:06	107-06-2		
1,1-Dichloroethene	19.8	ug/L	5.0	1		06/01/10 18:06	75-35-4		
cis-1,2-Dichloroethene	4530	ug/L	250	50		06/02/10 13:12	156-59-2		
trans-1,2-Dichloroethene	26.7	ug/L	5.0	1		06/01/10 18:06	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		06/01/10 18:06	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/01/10 18:06	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/01/10 18:06	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		06/01/10 18:06	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		06/01/10 18:06	591-78-6		
Methylene Chloride	ND	ug/L	5.0	1		06/01/10 18:06	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/01/10 18:06	108-10-1		
Styrene	ND	ug/L	5.0	1		06/01/10 18:06	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/01/10 18:06	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		06/01/10 18:06	127-18-4		
Toluene	ND	ug/L	5.0	1		06/01/10 18:06	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/01/10 18:06	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/01/10 18:06	79-00-5		
Trichloroethene	2610	ug/L	250	50		06/02/10 13:12	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		06/01/10 18:06	75-69-4		
Vinyl chloride	661	ug/L	50.0	50		06/02/10 13:12	75-01-4		
m&p-Xylene	ND	ug/L	5.0	1		06/01/10 18:06	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		06/01/10 18:06	95-47-6		
4-Bromofluorobenzene (S)	94	%	70-130	1		06/01/10 18:06	460-00-4		
1,2-Dichloroethane-d4 (S)	90	%	70-130	1		06/01/10 18:06	17060-07-0		
Toluene-d8 (S)	98	%	70-130	1		06/01/10 18:06	2037-26-5		

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3028535

Sample: PRIMARY-EFF		Lab ID: 3028535002		Collected: 05/27/10 09:15		Received: 05/28/10 10:00		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Acetone	951	ug/L	50.0	5			06/02/10 13:38	67-64-1	
Benzene	ND	ug/L	1.0	1			06/01/10 10:54	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1			06/01/10 10:54	75-27-4	
Bromoform	ND	ug/L	5.0	1			06/01/10 10:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1			06/01/10 10:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1			06/01/10 10:54	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1			06/01/10 10:54	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1			06/01/10 10:54	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1			06/01/10 10:54	108-90-7	
Chloroethane	ND	ug/L	5.0	1			06/01/10 10:54	75-00-3	
Chloroform	ND	ug/L	5.0	1			06/01/10 10:54	67-66-3	
Chloromethane	ND	ug/L	5.0	1			06/01/10 10:54	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1			06/01/10 10:54	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1			06/01/10 10:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1			06/01/10 10:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1			06/01/10 10:54	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1			06/01/10 10:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1			06/01/10 10:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1			06/01/10 10:54	75-35-4	
cis-1,2-Dichloroethene	90.9	ug/L	5.0	1			06/01/10 10:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1			06/01/10 10:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1			06/01/10 10:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1			06/01/10 10:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1			06/01/10 10:54	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1			06/01/10 10:54	100-41-4	
2-Hexanone	ND	ug/L	10.0	1			06/01/10 10:54	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1			06/01/10 10:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1			06/01/10 10:54	108-10-1	
Styrene	ND	ug/L	5.0	1			06/01/10 10:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1			06/01/10 10:54	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1			06/01/10 10:54	127-18-4	
Toluene	ND	ug/L	5.0	1			06/01/10 10:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1			06/01/10 10:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1			06/01/10 10:54	79-00-5	
Trichloroethene	ND	ug/L	5.0	1			06/01/10 10:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1			06/01/10 10:54	75-69-4	
Vinyl chloride	727	ug/L	5.0	5			06/02/10 13:38	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1			06/01/10 10:54	179601-23-1	
o-Xylene	ND	ug/L	5.0	1			06/01/10 10:54	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1			06/01/10 10:54	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130	1			06/01/10 10:54	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1			06/01/10 10:54	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3028535

Sample: POST-CARB		Lab ID: 3028535003	Collected: 05/27/10 09:20	Received: 05/28/10 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	56.0	ug/L	10.0	1		06/02/10 12:47	67-64-1	
Benzene	ND	ug/L	1.0	1		06/02/10 12:47	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		06/02/10 12:47	75-27-4	
Bromoform	ND	ug/L	5.0	1		06/02/10 12:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		06/02/10 12:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		06/02/10 12:47	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		06/02/10 12:47	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		06/02/10 12:47	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		06/02/10 12:47	108-90-7	
Chloroethane	ND	ug/L	5.0	1		06/02/10 12:47	75-00-3	
Chloroform	ND	ug/L	5.0	1		06/02/10 12:47	67-66-3	
Chloromethane	ND	ug/L	5.0	1		06/02/10 12:47	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		06/02/10 12:47	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		06/02/10 12:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		06/02/10 12:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		06/02/10 12:47	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		06/02/10 12:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		06/02/10 12:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		06/02/10 12:47	75-35-4	
cis-1,2-Dichloroethene	12.3	ug/L	5.0	1		06/02/10 12:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		06/02/10 12:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		06/02/10 12:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		06/02/10 12:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		06/02/10 12:47	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		06/02/10 12:47	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		06/02/10 12:47	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		06/02/10 12:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		06/02/10 12:47	108-10-1	
Styrene	ND	ug/L	5.0	1		06/02/10 12:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		06/02/10 12:47	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		06/02/10 12:47	127-18-4	
Toluene	ND	ug/L	5.0	1		06/02/10 12:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		06/02/10 12:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		06/02/10 12:47	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		06/02/10 12:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		06/02/10 12:47	75-69-4	
Vinyl chloride	46.1	ug/L	1.0	1		06/02/10 12:47	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		06/02/10 12:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		06/02/10 12:47	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		06/02/10 12:47	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		06/02/10 12:47	17060-07-0	
Toluene-d8 (S)	95	%	70-130	1		06/02/10 12:47	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3028535

Sample: TB-01		Lab ID: 3028535004		Collected: 05/27/10 00:00		Received: 05/28/10 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			06/01/10 09:22	67-64-1		
Benzene	ND ug/L	1.0	1			06/01/10 09:22	71-43-2		
Bromodichloromethane	ND ug/L	5.0	1			06/01/10 09:22	75-27-4		
Bromoform	ND ug/L	5.0	1			06/01/10 09:22	75-25-2		
Bromomethane	ND ug/L	5.0	1			06/01/10 09:22	74-83-9		
2-Butanone (MEK)	ND ug/L	10.0	1			06/01/10 09:22	78-93-3		
Carbon disulfide	ND ug/L	5.0	1			06/01/10 09:22	75-15-0		
Carbon tetrachloride	ND ug/L	5.0	1			06/01/10 09:22	56-23-5		
Chlorobenzene	ND ug/L	5.0	1			06/01/10 09:22	108-90-7		
Chloroethane	ND ug/L	5.0	1			06/01/10 09:22	75-00-3		
Chloroform	ND ug/L	5.0	1			06/01/10 09:22	67-66-3		
Chloromethane	ND ug/L	5.0	1			06/01/10 09:22	74-87-3		
Dibromochloromethane	ND ug/L	5.0	1			06/01/10 09:22	124-48-1		
1,2-Dichlorobenzene	ND ug/L	5.0	1			06/01/10 09:22	95-50-1		
1,3-Dichlorobenzene	ND ug/L	5.0	1			06/01/10 09:22	541-73-1		
1,4-Dichlorobenzene	ND ug/L	5.0	1			06/01/10 09:22	106-46-7		
1,1-Dichloroethane	ND ug/L	5.0	1			06/01/10 09:22	75-34-3		
1,2-Dichloroethane	ND ug/L	5.0	1			06/01/10 09:22	107-06-2		
1,1-Dichloroethene	ND ug/L	5.0	1			06/01/10 09:22	75-35-4		
cis-1,2-Dichloroethene	ND ug/L	5.0	1			06/01/10 09:22	156-59-2		
trans-1,2-Dichloroethene	ND ug/L	5.0	1			06/01/10 09:22	156-60-5		
1,2-Dichloropropane	ND ug/L	5.0	1			06/01/10 09:22	78-87-5		
cis-1,3-Dichloropropene	ND ug/L	5.0	1			06/01/10 09:22	10061-01-5		
trans-1,3-Dichloropropene	ND ug/L	5.0	1			06/01/10 09:22	10061-02-6		
Ethylbenzene	ND ug/L	5.0	1			06/01/10 09:22	100-41-4		
2-Hexanone	ND ug/L	10.0	1			06/01/10 09:22	591-78-6		
Methylene Chloride	ND ug/L	5.0	1			06/01/10 09:22	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND ug/L	10.0	1			06/01/10 09:22	108-10-1		
Styrene	ND ug/L	5.0	1			06/01/10 09:22	100-42-5		
1,1,2,2-Tetrachloroethane	ND ug/L	5.0	1			06/01/10 09:22	79-34-5		
Tetrachloroethene	ND ug/L	5.0	1			06/01/10 09:22	127-18-4		
Toluene	ND ug/L	5.0	1			06/01/10 09:22	108-88-3		
1,1,1-Trichloroethane	ND ug/L	5.0	1			06/01/10 09:22	71-55-6		
1,1,2-Trichloroethane	ND ug/L	5.0	1			06/01/10 09:22	79-00-5		
Trichloroethene	ND ug/L	5.0	1			06/01/10 09:22	79-01-6		
Trichlorofluoromethane	ND ug/L	5.0	1			06/01/10 09:22	75-69-4		
Vinyl chloride	ND ug/L	1.0	1			06/01/10 09:22	75-01-4		
m&p-Xylene	ND ug/L	5.0	1			06/01/10 09:22	179601-23-1		
o-Xylene	ND ug/L	5.0	1			06/01/10 09:22	95-47-6		
4-Bromofluorobenzene (S)	96 %	70-130	1			06/01/10 09:22	460-00-4		
1,2-Dichloroethane-d4 (S)	90 %	70-130	1			06/01/10 09:22	17060-07-0		
Toluene-d8 (S)	96 %	70-130	1			06/01/10 09:22	2037-26-5		

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3028535

QC Batch: MSV/5995 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3028535001, 3028535002, 3028535003, 3028535004

METHOD BLANK: 176745 Matrix: Water
Associated Lab Samples: 3028535001, 3028535002, 3028535003, 3028535004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	06/01/10 08:57	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	06/01/10 08:57	
1,1,2-Trichloroethane	ug/L	ND	5.0	06/01/10 08:57	
1,1-Dichloroethane	ug/L	ND	5.0	06/01/10 08:57	
1,1-Dichloroethene	ug/L	ND	5.0	06/01/10 08:57	
1,2-Dichlorobenzene	ug/L	ND	5.0	06/01/10 08:57	
1,2-Dichloroethane	ug/L	ND	5.0	06/01/10 08:57	
1,2-Dichloropropane	ug/L	ND	5.0	06/01/10 08:57	
1,3-Dichlorobenzene	ug/L	ND	5.0	06/01/10 08:57	
1,4-Dichlorobenzene	ug/L	ND	5.0	06/01/10 08:57	
2-Butanone (MEK)	ug/L	ND	10.0	06/01/10 08:57	
2-Hexanone	ug/L	ND	10.0	06/01/10 08:57	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	06/01/10 08:57	
Acetone	ug/L	ND	10.0	06/01/10 08:57	
Benzene	ug/L	ND	1.0	06/01/10 08:57	
Bromodichloromethane	ug/L	ND	5.0	06/01/10 08:57	
Bromoform	ug/L	ND	5.0	06/01/10 08:57	
Bromomethane	ug/L	ND	5.0	06/01/10 08:57	
Carbon disulfide	ug/L	ND	5.0	06/01/10 08:57	
Carbon tetrachloride	ug/L	ND	5.0	06/01/10 08:57	
Chlorobenzene	ug/L	ND	5.0	06/01/10 08:57	
Chloroethane	ug/L	ND	5.0	06/01/10 08:57	
Chloroform	ug/L	ND	5.0	06/01/10 08:57	
Chloromethane	ug/L	ND	5.0	06/01/10 08:57	
cis-1,2-Dichloroethene	ug/L	ND	5.0	06/01/10 08:57	
cis-1,3-Dichloropropene	ug/L	ND	5.0	06/01/10 08:57	
Dibromochloromethane	ug/L	ND	5.0	06/01/10 08:57	
Ethylbenzene	ug/L	ND	5.0	06/01/10 08:57	
m&p-Xylene	ug/L	ND	5.0	06/01/10 08:57	
Methylene Chloride	ug/L	ND	5.0	06/01/10 08:57	
o-Xylene	ug/L	ND	5.0	06/01/10 08:57	
Styrene	ug/L	ND	5.0	06/01/10 08:57	
Tetrachloroethene	ug/L	ND	5.0	06/01/10 08:57	
Toluene	ug/L	ND	5.0	06/01/10 08:57	
trans-1,2-Dichloroethene	ug/L	ND	5.0	06/01/10 08:57	
trans-1,3-Dichloropropene	ug/L	ND	5.0	06/01/10 08:57	
Trichloroethene	ug/L	ND	5.0	06/01/10 08:57	
Trichlorofluoromethane	ug/L	ND	5.0	06/01/10 08:57	
Vinyl chloride	ug/L	ND	1.0	06/01/10 08:57	
1,2-Dichloroethane-d4 (S)	%	86	70-130	06/01/10 08:57	
4-Bromofluorobenzene (S)	%	93	70-130	06/01/10 08:57	
Toluene-d8 (S)	%	95	70-130	06/01/10 08:57	

Date: 06/14/2010 04:56 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 12

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: Essex-Hope

Pace Project No.: 3028535

LABORATORY CONTROL SAMPLE: 176746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.7	88	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	20.0	100	70-130	
1,1,2-Trichloroethane	ug/L	20	19.7	98	70-130	
1,1-Dichloroethane	ug/L	20	21.2	106	70-130	
1,1-Dichloroethene	ug/L	20	17.2	86	70-130	
1,2-Dichlorobenzene	ug/L	20	19.8	99	70-130	
1,2-Dichloroethane	ug/L	20	16.8	84	70-130	
1,2-Dichloropropane	ug/L	20	21.4	107	70-130	
1,3-Dichlorobenzene	ug/L	20	19.6	98	70-130	
1,4-Dichlorobenzene	ug/L	20	20.0	100	70-130	
2-Butanone (MEK)	ug/L	20	17.3	87	70-130	
2-Hexanone	ug/L	20	16.6	83	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	16.9	85	70-130	
Acetone	ug/L	20	17.6	88	70-130	
Benzene	ug/L	20	21.2	106	70-130	
Bromodichloromethane	ug/L	20	17.7	88	70-130	
Bromoform	ug/L	20	16.1	80	70-130	
Bromomethane	ug/L	20	14.4	72	70-130	
Carbon disulfide	ug/L	20	22.5	113	70-130	
Carbon tetrachloride	ug/L	20	17.2	86	70-130	
Chlorobenzene	ug/L	20	20.8	104	70-130	
Chloroethane	ug/L	20	13.9	69	70-130	L0
Chloroform	ug/L	20	18.7	93	70-130	
Chloromethane	ug/L	20	17.9	90	70-130	
cis-1,2-Dichloroethene	ug/L	20	19.7	99	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.2	91	70-130	
Dibromochloromethane	ug/L	20	17.3	86	70-130	
Ethylbenzene	ug/L	20	20.7	103	70-130	
m&p-Xylene	ug/L	40	40.5	101	70-130	
Methylene Chloride	ug/L	20	19.8	99	70-130	
o-Xylene	ug/L	20	19.6	98	70-130	
Styrene	ug/L	20	20.1	101	70-130	
Tetrachloroethene	ug/L	20	19.7	98	70-130	
Toluene	ug/L	20	21.0	105	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.2	101	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.6	88	70-130	
Trichloroethene	ug/L	20	19.7	99	70-130	
Trichlorofluoromethane	ug/L	20	14.4	72	70-130	
Vinyl chloride	ug/L	20	18.4	92	70-130	
1,2-Dichloroethane-d4 (S)	%			84	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			101	70-130	

QUALITY CONTROL DATA

Project: Essex-Hope

Pace Project No.: 3028535

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 176747 176748											
Parameter	Units	3028424015 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		20	20	14.7	16.0	74	80	70-130	8	
1,1,2,2-Tetrachloroethane	ug/L		20	20	15.8	18.5	79	92	70-130	15	
1,1,2-Trichloroethane	ug/L		20	20	15.6	17.9	78	89	70-130	14	
1,1-Dichloroethane	ug/L		20	20	18.0	18.4	90	92	70-130	2	
1,1-Dichloroethene	ug/L		20	20	14.7	15.7	74	78	70-130	6	
1,2-Dichlorobenzene	ug/L		20	20	15.9	17.8	79	89	70-130	11	
1,2-Dichloroethane	ug/L	ND	20	20	13.8	14.8	69	74	70-130	7	M0
1,2-Dichloropropane	ug/L		20	20	17.1	18.1	85	91	70-130	6	
1,3-Dichlorobenzene	ug/L		20	20	16.2	17.9	81	90	70-130	10	
1,4-Dichlorobenzene	ug/L		20	20	16.2	18.1	81	90	70-130	11	
2-Butanone (MEK)	ug/L		20	20	16.4	15.1	82	76	70-130	8	
2-Hexanone	ug/L		20	20	14.2	14.6	71	73	70-130	3	
4-Methyl-2-pentanone (MIBK)	ug/L		20	20	16.8	14.8	84	74	70-130	13	
Acetone	ug/L		20	20	21.4	18.1	107	91	70-130	17	
Benzene	ug/L	ND	20	20	17.3	18.4	86	92	70-130	6	
Bromodichloromethane	ug/L		20	20	13.2	14.5	66	72	70-130	9	M0
Bromoform	ug/L		20	20	11.9	13.7	59	68	70-130	14	M0
Bromomethane	ug/L		20	20	13.5	10.9	68	54	70-130	22	M0
Carbon disulfide	ug/L		20	20	22.2	20.4	111	102	70-130	8	
Carbon tetrachloride	ug/L		20	20	14.3	13.4	72	67	70-130	6	M0
Chlorobenzene	ug/L		20	20	16.6	18.2	83	91	70-130	9	
Chloroethane	ug/L		20	20	12.4	10.7	62	54	70-130	15	M0
Chloroform	ug/L		20	20	15.7	16.7	79	83	70-130	6	
Chloromethane	ug/L		20	20	16.5	14.8	82	74	70-130	10	
cis-1,2-Dichloroethene	ug/L		20	20	19.5	18.7	98	94	70-130	4	
cis-1,3-Dichloropropene	ug/L		20	20	13.1	15.2	65	76	70-130	15	M0
Dibromochloromethane	ug/L		20	20	12.3	13.8	61	69	70-130	12	M0
Ethylbenzene	ug/L	ND	20	20	16.5	18.0	82	90	70-130	9	
m&p-Xylene	ug/L		40	40	32.4	35.7	81	89	70-130	10	
Methylene Chloride	ug/L		20	20	17.4	18.3	87	91	70-130	5	
o-Xylene	ug/L		20	20	15.6	16.9	78	85	70-130	8	
Styrene	ug/L		20	20	15.4	17.2	77	86	70-130	11	
Tetrachloroethene	ug/L		20	20	16.4	18.2	82	91	70-130	11	
Toluene	ug/L	ND	20	20	17.1	18.9	86	94	70-130	9	
trans-1,2-Dichloroethene	ug/L		20	20	17.3	18.5	86	93	70-130	7	
trans-1,3-Dichloropropene	ug/L		20	20	12.7	14.9	63	74	70-130	16	M0
Trichloroethene	ug/L		20	20	17.0	18.0	75	80	70-130	6	
Trichlorofluoromethane	ug/L		20	20	12.6	11.7	63	58	70-130	8	M0
Vinyl chloride	ug/L		20	20	17.4	15.7	87	78	70-130	11	
1,2-Dichloroethane-d4 (S)	%						85	86	70-130		
4-Bromofluorobenzene (S)	%						94	98	70-130		
Toluene-d8 (S)	%						97	98	70-130		

QUALIFIERS

Project: Essex-Hope
Pace Project No.: 3028535

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.

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

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.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope

Pace Project No.: 3028535

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3028535001	PRE-CARB	EPA 8260	MSV/5995		
3028535002	PRIMARY-EFF	EPA 8260	MSV/5995		
3028535003	POST-CARB	EPA 8260	MSV/5995		
3028535004	TB-01	EPA 8260	MSV/5995		

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	URS CORP	Report To:	MARK DOWIAK	Attention:	
Address:	801 HOLLY DR. FOSTER DUNN, STE. 340 PITTSBURGH, PA 15220	Copy To:	VALERIE SIBETO	Company Name:	
Email To:		Purchase Order No.:	41568652	Address:	
Phone:	412-583-4700	Project Name:	ESSEX/HOPE TOWNSTOWN	Pace Quote Reference:	
Requested Due Date/TAT:	STANDARD	Project Number:	41568652.10000	Pace Project Manager:	
				Pace Profile #:	
				REGULATORY AGENCY	
				☐ NPDES	☐ GROUND WATER
				☐ UST	☐ DRINKING WATER
				☐ RCRA	☐ OTHER
				1361399	
				Page: 1 of 1	
				Site Location	
				STATE: NY	

[illegible]



Sample Condition Upon Receipt

Client Name: URS

Project # 3028535

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

Tracking #: 8072 5538 1381

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

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

Thermometer Used (3) 5

Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature 9.6

Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: RES 5/28/10

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: <u>WT</u>		
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 <u>RES</u> Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☒ Yes ☐ No ☐ N/A	15. <u>TB</u>
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: _____

Date: 5/28/10

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)

July 12, 2010

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

RE: Project: Essex-Hope
Pace Project No.: 3030063

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on June 25, 2010. 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,



Timothy Reed

timothy.reed@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: Essex-Hope

Pace Project No.: 3030063

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: Essex-Hope

Pace Project No.: 3030063

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3030063001	PRE-CARB	EPA 8260	JAS	42	PASI-PA
3030063002	PRIMARY EFF	EPA 8260	JAS	42	PASI-PA
3030063003	POST CARB	EPA 8260	JAS	42	PASI-PA
3030063004	TB-01	EPA 8260	JAS	42	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3030063

Sample: PRE-CARB		Lab ID: 3030063001	Collected: 06/24/10 12:35	Received: 06/25/10 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	4350	ug/L	2000	200		07/06/10 17:23	67-64-1	
Benzene	17.8	ug/L	1.0	1		07/06/10 16:57	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/06/10 16:57	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/06/10 16:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/06/10 16:57	74-83-9	
2-Butanone (MEK)	16.9	ug/L	10.0	1		07/06/10 16:57	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/06/10 16:57	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/06/10 16:57	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/06/10 16:57	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/06/10 16:57	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/06/10 16:57	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/06/10 16:57	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/06/10 16:57	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/06/10 16:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/06/10 16:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/06/10 16:57	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/06/10 16:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/06/10 16:57	107-06-2	
1,1-Dichloroethene	31.1	ug/L	5.0	1		07/06/10 16:57	75-35-4	
cis-1,2-Dichloroethene	6990	ug/L	1000	200		07/06/10 17:23	156-59-2	
trans-1,2-Dichloroethene	74.7	ug/L	5.0	1		07/06/10 16:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/06/10 16:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/10 16:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/10 16:57	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/06/10 16:57	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/06/10 16:57	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		07/06/10 16:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/06/10 16:57	108-10-1	
Styrene	ND	ug/L	5.0	1		07/06/10 16:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/06/10 16:57	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/06/10 16:57	127-18-4	
Toluene	ND	ug/L	5.0	1		07/06/10 16:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/06/10 16:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/06/10 16:57	79-00-5	
Trichloroethene	2670	ug/L	1000	200		07/06/10 17:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/06/10 16:57	75-69-4	
Vinyl chloride	796	ug/L	200	200		07/06/10 17:23	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/06/10 16:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/06/10 16:57	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130	1		07/06/10 16:57	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130	1		07/06/10 16:57	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		07/06/10 16:57	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope

Pace Project No.: 3030063

Sample: PRIMARY EFF		Lab ID: 3030063002	Collected: 06/24/10 12:40	Received: 06/25/10 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	3820	ug/L	1000	100		07/06/10 18:16	67-64-1	
Benzene	ND	ug/L	1.0	1		07/06/10 17:50	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/06/10 17:50	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/06/10 17:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/06/10 17:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/06/10 17:50	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/06/10 17:50	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/06/10 17:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/06/10 17:50	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/06/10 17:50	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/06/10 17:50	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/06/10 17:50	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/06/10 17:50	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/06/10 17:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/06/10 17:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/06/10 17:50	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/06/10 17:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/06/10 17:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/06/10 17:50	75-35-4	
cis-1,2-Dichloroethene	1980	ug/L	500	100		07/06/10 18:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/06/10 17:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/06/10 17:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/10 17:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/06/10 17:50	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/06/10 17:50	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/06/10 17:50	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		07/06/10 17:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/06/10 17:50	108-10-1	
Styrene	ND	ug/L	5.0	1		07/06/10 17:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/06/10 17:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/06/10 17:50	127-18-4	
Toluene	ND	ug/L	5.0	1		07/06/10 17:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/06/10 17:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/06/10 17:50	79-00-5	
Trichloroethene	32.9	ug/L	5.0	1		07/06/10 17:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/06/10 17:50	75-69-4	
Vinyl chloride	1080	ug/L	100	100		07/06/10 18:16	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/06/10 17:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/06/10 17:50	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130	1		07/06/10 17:50	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		07/06/10 17:50	17060-07-0	
Toluene-d8 (S)	89	%	70-130	1		07/06/10 17:50	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope

Pace Project No.: 3030063

Sample: POST CARB		Lab ID: 3030063003	Collected: 06/24/10 12:45	Received: 06/25/10 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	928 ug/L		500	50		07/06/10 19:08	67-64-1	
Benzene	ND ug/L		1.0	1		07/06/10 18:42	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		07/06/10 18:42	75-27-4	
Bromoform	ND ug/L		5.0	1		07/06/10 18:42	75-25-2	
Bromomethane	ND ug/L		5.0	1		07/06/10 18:42	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		07/06/10 18:42	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		07/06/10 18:42	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		07/06/10 18:42	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		07/06/10 18:42	108-90-7	
Chloroethane	ND ug/L		5.0	1		07/06/10 18:42	75-00-3	
Chloroform	ND ug/L		5.0	1		07/06/10 18:42	67-66-3	
Chloromethane	ND ug/L		5.0	1		07/06/10 18:42	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		07/06/10 18:42	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		07/06/10 18:42	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		07/06/10 18:42	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		07/06/10 18:42	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		07/06/10 18:42	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		07/06/10 18:42	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		07/06/10 18:42	75-35-4	
cis-1,2-Dichloroethene	16.5 ug/L		5.0	1		07/06/10 18:42	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		07/06/10 18:42	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		07/06/10 18:42	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		07/06/10 18:42	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		07/06/10 18:42	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		07/06/10 18:42	100-41-4	
2-Hexanone	ND ug/L		10.0	1		07/06/10 18:42	591-78-6	
Methylene Chloride	ND ug/L		5.0	1		07/06/10 18:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		07/06/10 18:42	108-10-1	
Styrene	ND ug/L		5.0	1		07/06/10 18:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		07/06/10 18:42	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		07/06/10 18:42	127-18-4	
Toluene	ND ug/L		5.0	1		07/06/10 18:42	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		07/06/10 18:42	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		07/06/10 18:42	79-00-5	
Trichloroethene	ND ug/L		5.0	1		07/06/10 18:42	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		07/06/10 18:42	75-69-4	
Vinyl chloride	463 ug/L		50.0	50		07/06/10 19:08	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		07/06/10 18:42	179601-23-1	
o-Xylene	ND ug/L		5.0	1		07/06/10 18:42	95-47-6	
4-Bromofluorobenzene (S)	101 %		70-130	1		07/06/10 18:42	460-00-4	
1,2-Dichloroethane-d4 (S)	113 %		70-130	1		07/06/10 18:42	17060-07-0	
Toluene-d8 (S)	88 %		70-130	1		07/06/10 18:42	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3030063

Sample: TB-01		Lab ID: 3030063004		Collected: 06/24/10 00:00		Received: 06/25/10 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			07/06/10 16:31	67-64-1		
Benzene	ND ug/L	1.0	1			07/06/10 16:31	71-43-2		
Bromodichloromethane	ND ug/L	5.0	1			07/06/10 16:31	75-27-4		
Bromoform	ND ug/L	5.0	1			07/06/10 16:31	75-25-2		
Bromomethane	ND ug/L	5.0	1			07/06/10 16:31	74-83-9		
2-Butanone (MEK)	ND ug/L	10.0	1			07/06/10 16:31	78-93-3		
Carbon disulfide	ND ug/L	5.0	1			07/06/10 16:31	75-15-0		
Carbon tetrachloride	ND ug/L	5.0	1			07/06/10 16:31	56-23-5		
Chlorobenzene	ND ug/L	5.0	1			07/06/10 16:31	108-90-7		
Chloroethane	ND ug/L	5.0	1			07/06/10 16:31	75-00-3		
Chloroform	ND ug/L	5.0	1			07/06/10 16:31	67-66-3		
Chloromethane	ND ug/L	5.0	1			07/06/10 16:31	74-87-3		
Dibromochloromethane	ND ug/L	5.0	1			07/06/10 16:31	124-48-1		
1,2-Dichlorobenzene	ND ug/L	5.0	1			07/06/10 16:31	95-50-1		
1,3-Dichlorobenzene	ND ug/L	5.0	1			07/06/10 16:31	541-73-1		
1,4-Dichlorobenzene	ND ug/L	5.0	1			07/06/10 16:31	106-46-7		
1,1-Dichloroethane	ND ug/L	5.0	1			07/06/10 16:31	75-34-3		
1,2-Dichloroethane	ND ug/L	5.0	1			07/06/10 16:31	107-06-2		
1,1-Dichloroethene	ND ug/L	5.0	1			07/06/10 16:31	75-35-4		
cis-1,2-Dichloroethene	ND ug/L	5.0	1			07/06/10 16:31	156-59-2		
trans-1,2-Dichloroethene	ND ug/L	5.0	1			07/06/10 16:31	156-60-5		
1,2-Dichloropropane	ND ug/L	5.0	1			07/06/10 16:31	78-87-5		
cis-1,3-Dichloropropene	ND ug/L	5.0	1			07/06/10 16:31	10061-01-5		
trans-1,3-Dichloropropene	ND ug/L	5.0	1			07/06/10 16:31	10061-02-6		
Ethylbenzene	ND ug/L	5.0	1			07/06/10 16:31	100-41-4		
2-Hexanone	ND ug/L	10.0	1			07/06/10 16:31	591-78-6		
Methylene Chloride	ND ug/L	5.0	1			07/06/10 16:31	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND ug/L	10.0	1			07/06/10 16:31	108-10-1		
Styrene	ND ug/L	5.0	1			07/06/10 16:31	100-42-5		
1,1,2,2-Tetrachloroethane	ND ug/L	5.0	1			07/06/10 16:31	79-34-5		
Tetrachloroethene	ND ug/L	5.0	1			07/06/10 16:31	127-18-4		
Toluene	ND ug/L	5.0	1			07/06/10 16:31	108-88-3		
1,1,1-Trichloroethane	ND ug/L	5.0	1			07/06/10 16:31	71-55-6		
1,1,2-Trichloroethane	ND ug/L	5.0	1			07/06/10 16:31	79-00-5		
Trichloroethene	ND ug/L	5.0	1			07/06/10 16:31	79-01-6		
Trichlorofluoromethane	ND ug/L	5.0	1			07/06/10 16:31	75-69-4		
Vinyl chloride	ND ug/L	1.0	1			07/06/10 16:31	75-01-4		
m&p-Xylene	ND ug/L	5.0	1			07/06/10 16:31	179601-23-1		
o-Xylene	ND ug/L	5.0	1			07/06/10 16:31	95-47-6		
4-Bromofluorobenzene (S)	102 %	70-130	1			07/06/10 16:31	460-00-4		
1,2-Dichloroethane-d4 (S)	115 %	70-130	1			07/06/10 16:31	17060-07-0		
Toluene-d8 (S)	94 %	70-130	1			07/06/10 16:31	2037-26-5		

QUALITY CONTROL DATA

Project: Essex-Hope

Pace Project No.: 3030063

QC Batch:	MSV/6442	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	3030063001, 3030063002, 3030063003, 3030063004		

METHOD BLANK:	190966	Matrix:	Water
---------------	--------	---------	-------

Associated Lab Samples: 3030063001, 3030063002, 3030063003, 3030063004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	07/06/10 15:12	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	07/06/10 15:12	
1,1,2-Trichloroethane	ug/L	ND	5.0	07/06/10 15:12	
1,1-Dichloroethane	ug/L	ND	5.0	07/06/10 15:12	
1,1-Dichloroethene	ug/L	ND	5.0	07/06/10 15:12	
1,2-Dichlorobenzene	ug/L	ND	5.0	07/06/10 15:12	
1,2-Dichloroethane	ug/L	ND	5.0	07/06/10 15:12	
1,2-Dichloropropane	ug/L	ND	5.0	07/06/10 15:12	
1,3-Dichlorobenzene	ug/L	ND	5.0	07/06/10 15:12	
1,4-Dichlorobenzene	ug/L	ND	5.0	07/06/10 15:12	
2-Butanone (MEK)	ug/L	ND	10.0	07/06/10 15:12	
2-Hexanone	ug/L	ND	10.0	07/06/10 15:12	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/06/10 15:12	
Acetone	ug/L	ND	10.0	07/06/10 15:12	
Benzene	ug/L	ND	1.0	07/06/10 15:12	
Bromodichloromethane	ug/L	ND	5.0	07/06/10 15:12	
Bromoform	ug/L	ND	5.0	07/06/10 15:12	
Bromomethane	ug/L	ND	5.0	07/06/10 15:12	
Carbon disulfide	ug/L	ND	5.0	07/06/10 15:12	
Carbon tetrachloride	ug/L	ND	5.0	07/06/10 15:12	
Chlorobenzene	ug/L	ND	5.0	07/06/10 15:12	
Chloroethane	ug/L	ND	5.0	07/06/10 15:12	
Chloroform	ug/L	ND	5.0	07/06/10 15:12	
Chloromethane	ug/L	ND	5.0	07/06/10 15:12	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/06/10 15:12	
cis-1,3-Dichloropropene	ug/L	ND	5.0	07/06/10 15:12	
Dibromochloromethane	ug/L	ND	5.0	07/06/10 15:12	
Ethylbenzene	ug/L	ND	5.0	07/06/10 15:12	
m&p-Xylene	ug/L	ND	5.0	07/06/10 15:12	
Methylene Chloride	ug/L	ND	5.0	07/06/10 15:12	
o-Xylene	ug/L	ND	5.0	07/06/10 15:12	
Styrene	ug/L	ND	5.0	07/06/10 15:12	
Tetrachloroethene	ug/L	ND	5.0	07/06/10 15:12	
Toluene	ug/L	ND	5.0	07/06/10 15:12	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/06/10 15:12	
trans-1,3-Dichloropropene	ug/L	ND	5.0	07/06/10 15:12	
Trichloroethene	ug/L	ND	5.0	07/06/10 15:12	
Trichlorofluoromethane	ug/L	ND	5.0	07/06/10 15:12	
Vinyl chloride	ug/L	ND	1.0	07/06/10 15:12	
1,2-Dichloroethane-d4 (S)	%	113	70-130	07/06/10 15:12	
4-Bromofluorobenzene (S)	%	103	70-130	07/06/10 15:12	
Toluene-d8 (S)	%	94	70-130	07/06/10 15:12	

Date: 07/12/2010 05:09 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: Essex-Hope

Pace Project No.: 3030063

LABORATORY CONTROL SAMPLE: 190967

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.6	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	16.6	83	70-130	
1,1,2-Trichloroethane	ug/L	20	18.9	95	70-130	
1,1-Dichloroethane	ug/L	20	20.2	101	70-130	
1,1-Dichloroethene	ug/L	20	18.7	94	70-130	
1,2-Dichlorobenzene	ug/L	20	20.0	100	70-130	
1,2-Dichloroethane	ug/L	20	21.9	110	70-130	
1,2-Dichloropropane	ug/L	20	17.7	88	70-130	
1,3-Dichlorobenzene	ug/L	20	20.2	101	70-130	
1,4-Dichlorobenzene	ug/L	20	20.4	102	70-130	
2-Butanone (MEK)	ug/L	20	17.7	89	70-130	
2-Hexanone	ug/L	20	18.8	94	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.9	94	70-130	
Acetone	ug/L	20	25.9	129	70-130	
Benzene	ug/L	20	17.6	88	70-130	
Bromodichloromethane	ug/L	20	14.8	74	70-130	
Bromoform	ug/L	20	13.2	66	70-130	L2
Bromomethane	ug/L	20	56.4	282	70-130	L3
Carbon disulfide	ug/L	20	30.2	151	70-130	L3
Carbon tetrachloride	ug/L	20	14.2	71	70-130	
Chlorobenzene	ug/L	20	19.6	98	70-130	
Chloroethane	ug/L	20	20.1	101	70-130	
Chloroform	ug/L	20	20.9	105	70-130	
Chloromethane	ug/L	20	22.6	113	70-130	
cis-1,2-Dichloroethene	ug/L	20	20.1	100	70-130	
cis-1,3-Dichloropropene	ug/L	20	16.1	80	70-130	
Dibromochloromethane	ug/L	20	12.3	62	70-130	L2
Ethylbenzene	ug/L	20	20.1	101	70-130	
m&p-Xylene	ug/L	40	41.9	105	70-130	
Methylene Chloride	ug/L	20	26.9	135	70-130	C9,L0
o-Xylene	ug/L	20	19.4	97	70-130	
Styrene	ug/L	20	19.7	98	70-130	
Tetrachloroethene	ug/L	20	20.1	100	70-130	
Toluene	ug/L	20	19.6	98	70-130	
trans-1,2-Dichloroethene	ug/L	20	26.0	130	70-130	
trans-1,3-Dichloropropene	ug/L	20	16.3	81	70-130	
Trichloroethene	ug/L	20	18.8	94	70-130	
Trichlorofluoromethane	ug/L	20	20.7	103	70-130	
Vinyl chloride	ug/L	20	23.2	116	70-130	
1,2-Dichloroethane-d4 (S)	%			112	70-130	
4-Bromofluorobenzene (S)	%			104	70-130	
Toluene-d8 (S)	%			98	70-130	

QUALIFIERS

Project: Essex-Hope
Pace Project No.: 3030063

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.

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

C9 Common Laboratory Contaminant.

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

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.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope

Pace Project No.: 3030063

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3030063001	PRE-CARB	EPA 8260	MSV/6442		
3030063002	PRIMARY EFF	EPA 8260	MSV/6442		
3030063003	POST CARB	EPA 8260	MSV/6442		
3030063004	TB-01	EPA 8260	MSV/6442		

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	URS CORP	Report To:	MARK DOWMAN	Attention:	
Address:	501 HOLDWAY DR. FORT LEE, NJ 07024 ATTN: 760 R41PA15220	Copy To:	VALECKIE SIBETO	Company Name:	
				Address:	
Email To:		Purchase Order No.:	41568652	Pace Quote Reference:	
Phone:	412503-4700 FAX: 412503-4701	Project Name:	SSR24-HOPE JAYESTOWN	Pace Project Manager:	
Requested Due Date/TAT:	STANDARD	Project Number:	41568652-10000	Pace Profile #:	

Page: 1 of 1
 1360575

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

Site Location
 STATE: NJ

[illegible]



Sample Condition Upon Receipt

LEL

Client Name: WRS

Project # 3030063

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

Tracking #: 7995 0273 0760

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 5

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: _____

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: <u>WT</u>		
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, WL-DRO (water)	☒ Yes ☐ No	Initial when completed <u>RES</u> Lot # of added preservative
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	14.
Headspace in VOA Vials (>6mm):	☒ Yes ☒ No ☐ N/A	15. <u>Trip Blank</u>
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: _____

Date: 6/28/10

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)

August 12, 2010

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

RE: Project: Essex-Hope
Pace Project No.: 3031653

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on July 29, 2010. 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,



Timothy Reed

timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Accounts Payable, URS Corporation

REPORT OF LABORATORY ANALYSIS

Page 1 of 12

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: Essex-Hope

Pace Project No.: 3031653

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 12

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: Essex-Hope

Pace Project No.: 3031653

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3031653001	PRE-CARB	EPA 8260	JHC	42	PASI-PA
3031653002	PRIMARY-EFF	EPA 8260	JHC	42	PASI-PA
3031653003	POST-CARB	EPA 8260	JHC	42	PASI-PA
3031653004	TB-01	EPA 8260	JHC	42	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 12

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3031653

Sample: PRE-CARB		Lab ID: 3031653001		Collected: 07/28/10 11:20		Received: 07/29/10 10:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Acetone	2370	ug/L	500	50		08/02/10 16:59	67-64-1		
Benzene	11.0	ug/L	1.0	1		08/02/10 16:34	71-43-2		
Bromodichloromethane	ND	ug/L	5.0	1		08/02/10 16:34	75-27-4		
Bromoform	ND	ug/L	5.0	1		08/02/10 16:34	75-25-2		
Bromomethane	ND	ug/L	5.0	1		08/02/10 16:34	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		08/02/10 16:34	78-93-3		
Carbon disulfide	ND	ug/L	5.0	1		08/02/10 16:34	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		08/02/10 16:34	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		08/02/10 16:34	108-90-7		
Chloroethane	ND	ug/L	5.0	1		08/02/10 16:34	75-00-3		
Chloroform	ND	ug/L	5.0	1		08/02/10 16:34	67-66-3		
Chloromethane	ND	ug/L	5.0	1		08/02/10 16:34	74-87-3		
Dibromochloromethane	ND	ug/L	5.0	1		08/02/10 16:34	124-48-1		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/02/10 16:34	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/02/10 16:34	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/02/10 16:34	106-46-7		
1,1-Dichloroethane	ND	ug/L	5.0	1		08/02/10 16:34	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		08/02/10 16:34	107-06-2		
1,1-Dichloroethene	14.9	ug/L	5.0	1		08/02/10 16:34	75-35-4		
cis-1,2-Dichloroethene	4240	ug/L	250	50		08/02/10 16:59	156-59-2		
trans-1,2-Dichloroethene	33.6	ug/L	5.0	1		08/02/10 16:34	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		08/02/10 16:34	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/10 16:34	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/10 16:34	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		08/02/10 16:34	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		08/02/10 16:34	591-78-6		
Methylene Chloride	ND	ug/L	5.0	1		08/02/10 16:34	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		08/02/10 16:34	108-10-1		
Styrene	ND	ug/L	5.0	1		08/02/10 16:34	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/10 16:34	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		08/02/10 16:34	127-18-4		
Toluene	ND	ug/L	5.0	1		08/02/10 16:34	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/02/10 16:34	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/02/10 16:34	79-00-5		
Trichloroethene	1260	ug/L	250	50		08/02/10 16:59	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		08/02/10 16:34	75-69-4		
Vinyl chloride	410	ug/L	50.0	50		08/02/10 16:59	75-01-4		
m&p-Xylene	ND	ug/L	5.0	1		08/02/10 16:34	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		08/02/10 16:34	95-47-6		
4-Bromofluorobenzene (S)	99	%	70-130	1		08/02/10 16:34	460-00-4		
1,2-Dichloroethane-d4 (S)	127	%	70-130	1		08/02/10 16:34	17060-07-0		
Toluene-d8 (S)	110	%	70-130	1		08/02/10 16:34	2037-26-5		

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3031653

Sample: PRIMARY-EFF		Lab ID: 3031653002	Collected: 07/28/10 11:25	Received: 07/29/10 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	954 ug/L		100	10		08/02/10 16:10	67-64-1	
Benzene	ND ug/L		1.0	1		08/02/10 15:45	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		08/02/10 15:45	75-27-4	
Bromoform	ND ug/L		5.0	1		08/02/10 15:45	75-25-2	
Bromomethane	ND ug/L		5.0	1		08/02/10 15:45	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		08/02/10 15:45	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		08/02/10 15:45	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		08/02/10 15:45	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		08/02/10 15:45	108-90-7	
Chloroethane	ND ug/L		5.0	1		08/02/10 15:45	75-00-3	
Chloroform	ND ug/L		5.0	1		08/02/10 15:45	67-66-3	
Chloromethane	ND ug/L		5.0	1		08/02/10 15:45	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		08/02/10 15:45	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		08/02/10 15:45	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		08/02/10 15:45	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		08/02/10 15:45	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		08/02/10 15:45	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		08/02/10 15:45	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		08/02/10 15:45	75-35-4	
cis-1,2-Dichloroethene	25.8 ug/L		5.0	1		08/02/10 15:45	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		08/02/10 15:45	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		08/02/10 15:45	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		08/02/10 15:45	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		08/02/10 15:45	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		08/02/10 15:45	100-41-4	
2-Hexanone	ND ug/L		10.0	1		08/02/10 15:45	591-78-6	
Methylene Chloride	ND ug/L		5.0	1		08/02/10 15:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		08/02/10 15:45	108-10-1	
Styrene	ND ug/L		5.0	1		08/02/10 15:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		08/02/10 15:45	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		08/02/10 15:45	127-18-4	
Toluene	ND ug/L		5.0	1		08/02/10 15:45	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		08/02/10 15:45	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		08/02/10 15:45	79-00-5	
Trichloroethene	ND ug/L		5.0	1		08/02/10 15:45	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		08/02/10 15:45	75-69-4	
Vinyl chloride	870 ug/L		10.0	10		08/02/10 16:10	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		08/02/10 15:45	179601-23-1	
o-Xylene	ND ug/L		5.0	1		08/02/10 15:45	95-47-6	
4-Bromofluorobenzene (S)	98 %		70-130	1		08/02/10 15:45	460-00-4	
1,2-Dichloroethane-d4 (S)	126 %		70-130	1		08/02/10 15:45	17060-07-0	
Toluene-d8 (S)	107 %		70-130	1		08/02/10 15:45	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3031653

Sample: POST-CARB		Lab ID: 3031653003	Collected: 07/28/10 11:30	Received: 07/29/10 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	42.6	ug/L	10.0	1		08/02/10 12:27	67-64-1	
Benzene	ND	ug/L	1.0	1		08/02/10 12:27	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		08/02/10 12:27	75-27-4	
Bromoform	ND	ug/L	5.0	1		08/02/10 12:27	75-25-2	
Bromomethane	ND	ug/L	5.0	1		08/02/10 12:27	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		08/02/10 12:27	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		08/02/10 12:27	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		08/02/10 12:27	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		08/02/10 12:27	108-90-7	
Chloroethane	ND	ug/L	5.0	1		08/02/10 12:27	75-00-3	
Chloroform	ND	ug/L	5.0	1		08/02/10 12:27	67-66-3	
Chloromethane	ND	ug/L	5.0	1		08/02/10 12:27	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		08/02/10 12:27	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		08/02/10 12:27	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		08/02/10 12:27	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		08/02/10 12:27	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		08/02/10 12:27	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		08/02/10 12:27	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		08/02/10 12:27	75-35-4	
cis-1,2-Dichloroethene	349	ug/L	5.0	1		08/02/10 12:27	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		08/02/10 12:27	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		08/02/10 12:27	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/10 12:27	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		08/02/10 12:27	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		08/02/10 12:27	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		08/02/10 12:27	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		08/02/10 12:27	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		08/02/10 12:27	108-10-1	
Styrene	ND	ug/L	5.0	1		08/02/10 12:27	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		08/02/10 12:27	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		08/02/10 12:27	127-18-4	
Toluene	ND	ug/L	5.0	1		08/02/10 12:27	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		08/02/10 12:27	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		08/02/10 12:27	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		08/02/10 12:27	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		08/02/10 12:27	75-69-4	
Vinyl chloride	262	ug/L	1.0	1		08/02/10 12:27	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		08/02/10 12:27	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		08/02/10 12:27	95-47-6	
4-Bromofluorobenzene (S)	99	%	70-130	1		08/02/10 12:27	460-00-4	
1,2-Dichloroethane-d4 (S)	118	%	70-130	1		08/02/10 12:27	17060-07-0	
Toluene-d8 (S)	109	%	70-130	1		08/02/10 12:27	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope
Pace Project No.: 3031653

Sample: TB-01		Lab ID: 3031653004	Collected: 07/28/10 00:00	Received: 07/29/10 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		07/30/10 09:44	67-64-1	
Benzene	ND ug/L		1.0	1		07/30/10 09:44	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		07/30/10 09:44	75-27-4	
Bromoform	ND ug/L		5.0	1		07/30/10 09:44	75-25-2	
Bromomethane	ND ug/L		5.0	1		07/30/10 09:44	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		07/30/10 09:44	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		07/30/10 09:44	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		07/30/10 09:44	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		07/30/10 09:44	108-90-7	
Chloroethane	ND ug/L		5.0	1		07/30/10 09:44	75-00-3	
Chloroform	ND ug/L		5.0	1		07/30/10 09:44	67-66-3	
Chloromethane	ND ug/L		5.0	1		07/30/10 09:44	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		07/30/10 09:44	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		07/30/10 09:44	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		07/30/10 09:44	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		07/30/10 09:44	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		07/30/10 09:44	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		07/30/10 09:44	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		07/30/10 09:44	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		07/30/10 09:44	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		07/30/10 09:44	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		07/30/10 09:44	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		07/30/10 09:44	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		07/30/10 09:44	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		07/30/10 09:44	100-41-4	
2-Hexanone	ND ug/L		10.0	1		07/30/10 09:44	591-78-6	
Methylene Chloride	ND ug/L		5.0	1		07/30/10 09:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		07/30/10 09:44	108-10-1	
Styrene	ND ug/L		5.0	1		07/30/10 09:44	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		07/30/10 09:44	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		07/30/10 09:44	127-18-4	
Toluene	ND ug/L		5.0	1		07/30/10 09:44	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		07/30/10 09:44	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		07/30/10 09:44	79-00-5	
Trichloroethene	ND ug/L		5.0	1		07/30/10 09:44	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		07/30/10 09:44	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		07/30/10 09:44	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		07/30/10 09:44	179601-23-1	
o-Xylene	ND ug/L		5.0	1		07/30/10 09:44	95-47-6	
4-Bromofluorobenzene (S)	103 %		70-130	1		07/30/10 09:44	460-00-4	
1,2-Dichloroethane-d4 (S)	116 %		70-130	1		07/30/10 09:44	17060-07-0	
Toluene-d8 (S)	107 %		70-130	1		07/30/10 09:44	2037-26-5	

QUALITY CONTROL DATA

Project: Essex-Hope
Pace Project No.: 3031653

QC Batch: MSV/6696 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3031653001, 3031653002, 3031653003, 3031653004

METHOD BLANK: 198949 Matrix: Water
Associated Lab Samples: 3031653001, 3031653002, 3031653003, 3031653004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	07/30/10 09:18	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	07/30/10 09:18	
1,1,2-Trichloroethane	ug/L	ND	5.0	07/30/10 09:18	
1,1-Dichloroethane	ug/L	ND	5.0	07/30/10 09:18	
1,1-Dichloroethene	ug/L	ND	5.0	07/30/10 09:18	
1,2-Dichlorobenzene	ug/L	ND	5.0	07/30/10 09:18	
1,2-Dichloroethane	ug/L	ND	5.0	07/30/10 09:18	
1,2-Dichloropropane	ug/L	ND	5.0	07/30/10 09:18	
1,3-Dichlorobenzene	ug/L	ND	5.0	07/30/10 09:18	
1,4-Dichlorobenzene	ug/L	ND	5.0	07/30/10 09:18	
2-Butanone (MEK)	ug/L	ND	10.0	07/30/10 09:18	
2-Hexanone	ug/L	ND	10.0	07/30/10 09:18	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/30/10 09:18	
Acetone	ug/L	ND	10.0	07/30/10 09:18	
Benzene	ug/L	ND	1.0	07/30/10 09:18	
Bromodichloromethane	ug/L	ND	5.0	07/30/10 09:18	
Bromoform	ug/L	ND	5.0	07/30/10 09:18	
Bromomethane	ug/L	ND	5.0	07/30/10 09:18	
Carbon disulfide	ug/L	ND	5.0	07/30/10 09:18	
Carbon tetrachloride	ug/L	ND	5.0	07/30/10 09:18	
Chlorobenzene	ug/L	ND	5.0	07/30/10 09:18	
Chloroethane	ug/L	ND	5.0	07/30/10 09:18	
Chloroform	ug/L	ND	5.0	07/30/10 09:18	
Chloromethane	ug/L	ND	5.0	07/30/10 09:18	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/30/10 09:18	
cis-1,3-Dichloropropene	ug/L	ND	5.0	07/30/10 09:18	
Dibromochloromethane	ug/L	ND	5.0	07/30/10 09:18	
Ethylbenzene	ug/L	ND	5.0	07/30/10 09:18	
m&p-Xylene	ug/L	ND	5.0	07/30/10 09:18	
Methylene Chloride	ug/L	ND	5.0	07/30/10 09:18	
o-Xylene	ug/L	ND	5.0	07/30/10 09:18	
Styrene	ug/L	ND	5.0	07/30/10 09:18	
Tetrachloroethene	ug/L	ND	5.0	07/30/10 09:18	
Toluene	ug/L	ND	5.0	07/30/10 09:18	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/30/10 09:18	
trans-1,3-Dichloropropene	ug/L	ND	5.0	07/30/10 09:18	
Trichloroethene	ug/L	ND	5.0	07/30/10 09:18	
Trichlorofluoromethane	ug/L	ND	5.0	07/30/10 09:18	
Vinyl chloride	ug/L	ND	1.0	07/30/10 09:18	
1,2-Dichloroethane-d4 (S)	%	108	70-130	07/30/10 09:18	
4-Bromofluorobenzene (S)	%	104	70-130	07/30/10 09:18	
Toluene-d8 (S)	%	108	70-130	07/30/10 09:18	

QUALITY CONTROL DATA

Project: Essex-Hope

Pace Project No.: 3031653

LABORATORY CONTROL SAMPLE: 198950

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	16.4	82	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.9	89	70-130	
1,1,2-Trichloroethane	ug/L	20	18.3	92	70-130	
1,1-Dichloroethane	ug/L	20	16.2	81	70-130	
1,1-Dichloroethene	ug/L	20	14.6	73	70-130	
1,2-Dichlorobenzene	ug/L	20	17.9	90	70-130	
1,2-Dichloroethane	ug/L	20	18.9	95	70-130	
1,2-Dichloropropane	ug/L	20	18.4	92	70-130	
1,3-Dichlorobenzene	ug/L	20	17.8	89	70-130	
1,4-Dichlorobenzene	ug/L	20	19.0	95	70-130	
2-Butanone (MEK)	ug/L	20	13.8	69	70-130	L0
2-Hexanone	ug/L	20	21.9	110	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.9	104	70-130	
Acetone	ug/L	20	23.8	119	70-130	
Benzene	ug/L	20	17.7	88	70-130	
Bromodichloromethane	ug/L	20	17.6	88	70-130	
Bromoform	ug/L	20	14.2	71	70-130	
Bromomethane	ug/L	20	30.6	153	70-130	L0
Carbon disulfide	ug/L	20	21.7	108	70-130	
Carbon tetrachloride	ug/L	20	15.8	79	70-130	
Chlorobenzene	ug/L	20	17.5	88	70-130	
Chloroethane	ug/L	20	18.2	91	70-130	
Chloroform	ug/L	20	18.1	91	70-130	
Chloromethane	ug/L	20	13.6	68	70-130	L0
cis-1,2-Dichloroethene	ug/L	20	17.7	88	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.7	94	70-130	
Dibromochloromethane	ug/L	20	16.6	83	70-130	
Ethylbenzene	ug/L	20	17.8	89	70-130	
m&p-Xylene	ug/L	40	36.6	92	70-130	
Methylene Chloride	ug/L	20	17.5	87	70-130	
o-Xylene	ug/L	20	18.0	90	70-130	
Styrene	ug/L	20	17.3	87	70-130	
Tetrachloroethene	ug/L	20	15.3	77	70-130	
Toluene	ug/L	20	17.7	88	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.7	83	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.9	89	70-130	
Trichloroethene	ug/L	20	15.8	79	70-130	
Trichlorofluoromethane	ug/L	20	19.8	99	70-130	
Vinyl chloride	ug/L	20	14.9	74	70-130	
1,2-Dichloroethane-d4 (S)	%			112	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			106	70-130	

QUALITY CONTROL DATA

Project: Essex-Hope

Pace Project No.: 3031653

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 198951 198952											
Parameter	Units	3031639001 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	<5.0	20	20	23.1	22.1	116	111	70-130	5	
1,1,2,2-Tetrachloroethane	ug/L	1.05	20	20	20.6	21.4	103	107	70-130	4	
1,1,2-Trichloroethane	ug/L	1.05	20	20	19.2	21.3	96	106	70-130	11	
1,1-Dichloroethane	ug/L	<5.0	20	20	23.1	22.8	115	114	70-130	1	
1,1-Dichloroethene	ug/L	<5.0	20	20	21.7	22.0	108	110	70-130	2	
1,2-Dichlorobenzene	ug/L	1.05	20	20	20.9	20.7	105	104	70-130	.9	
1,2-Dichloroethane	ug/L	<5.0	20	20	26.6	26.2	133	131	70-130	2	M0
1,2-Dichloropropane	ug/L	1.05	20	20	21.2	23.4	106	117	70-130	10	
1,3-Dichlorobenzene	ug/L	1.05	20	20	20.8	20.7	104	103	70-130	.5	
1,4-Dichlorobenzene	ug/L	1.05	20	20	20.8	21.3	104	106	70-130	2	
2-Butanone (MEK)	ug/L	10.05	20	20	20.9	25.4	105	127	70-130	19	
2-Hexanone	ug/L	10.05	20	20	22.4	27.8	112	139	70-130	22	M0
4-Methyl-2-pentanone (MIBK)	ug/L	10.05	20	20	22.3	26.1	111	130	70-130	16	
Acetone	ug/L	10.05	20	20	34.1	33.8	171	169	70-130	.9	M0
Benzene	ug/L	1.05	20	20	19.8	22.9	99	114	70-130	14	
Bromodichloromethane	ug/L	1.05	20	20	19.4	21.3	97	106	70-130	9	
Bromoform	ug/L	1.05	20	20	12.4	14.0	62	70	70-130	12	M0
Bromomethane	ug/L	1.05	20	20	33.5	45.1	168	225	70-130	29	M0
Carbon disulfide	ug/L	1.05	20	20	23.4	25.0	117	125	70-130	7	
Carbon tetrachloride	ug/L	1.05	20	20	17.8	20.2	89	101	70-130	13	
Chlorobenzene	ug/L	1.05	20	20	19.1	21.0	95	105	70-130	10	
Chloroethane	ug/L	1.05	20	20	143	88.1	715	440	70-130	47	M0,R1
Chloroform	ug/L	1.05	20	20	22.4	22.8	112	114	70-130	2	
Chloromethane	ug/L	1.05	20	20	20.5	20.8	102	104	70-130	1	
cis-1,2-Dichloroethene	ug/L	10.6	20	20	39.7	36.8	145	131	70-130	8	M0
cis-1,3-Dichloropropene	ug/L	1.05	20	20	19.6	22.3	98	111	70-130	13	
Dibromochloromethane	ug/L	1.05	20	20	15.9	18.7	80	93	70-130	16	
Ethylbenzene	ug/L	1.05	20	20	20.2	22.6	101	113	70-130	11	
m&p-Xylene	ug/L	2.05	40	40	40.8	45.8	102	115	70-130	12	
Methylene Chloride	ug/L	1.05	20	20	25.5	25.1	128	126	70-130	2	
o-Xylene	ug/L	1.05	20	20	19.7	22.3	99	112	70-130	12	
Styrene	ug/L	1.05	20	20	17.6	19.1	88	96	70-130	8	
Tetrachloroethene	ug/L	<5.0	20	20	19.1	18.1	95	91	70-130	5	
Toluene	ug/L	1.05	20	20	20.0	21.9	100	109	70-130	9	
trans-1,2-Dichloroethene	ug/L	<5.0	20	20	24.3	23.7	122	118	70-130	3	
trans-1,3-Dichloropropene	ug/L	1.05	20	20	19.2	21.1	96	105	70-130	10	
Trichloroethene	ug/L	6.7	20	20	24.7	26.6	90	99	70-130	7	
Trichlorofluoromethane	ug/L	1.05	20	20	23.8	25.6	119	128	70-130	8	
Vinyl chloride	ug/L	6.8	20	20	27.9	27.8	106	105	70-130	.5	
1,2-Dichloroethane-d4 (S)	%						113	127	70-130		
4-Bromofluorobenzene (S)	%						95	94	70-130		
Toluene-d8 (S)	%						96	108	70-130		

QUALIFIERS

Project: Essex-Hope

Pace Project No.: 3031653

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.

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

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.

R1 RPD value was outside control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope

Pace Project No.: 3031653

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3031653001	PRE-CARB	EPA 8260	MSV/6696		
3031653002	PRIMARY-EFF	EPA 8260	MSV/6696		
3031653003	POST-CARB	EPA 8260	MSV/6696		
3031653004	TB-01	EPA 8260	MSV/6696		

Section C

Information-

Company: URS CORP	Report To: MARK DOWIAK	Attention:
Address: FOSTER PLAZA 4, STE 300 501 HOLIDAY DRIVE PITTSBURGH, PA 15220	Copy To: VALERIE SIBERT	Company Name:
		Address:
Email To:	Purchase Order No.: 41568652	Pace Quote Reference:
Phone: 412-503-4770 FAX: 412-503-4701	Project Name: ESSEX/HOPE JAMESTOWN	Pace Project Manager:
Requested Due Date/TAT: STANDARD	Project Number: 41568652.10000	Pace Profile #:

Section D Required Client Information		Matrix Codes MATRIX CODE		COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)		MATRIX CODE (see valid codes to left)		SAMPLE TEMP AT COLLECTION		PRESERVATIVES		Requested Analysis Filtered (Y/N)		Pace Project No./ Lab I.D.						
SAMPLE ID (A-Z, 0-9 / .) Sample IDs MUST BE UNIQUE		DW Drinking Water WT Water WW Waste Water P Product SL Soil/Solid OL Oil WP Wipe AR Air TS Tissue OT Other		DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₅	Methanol	Other	Residual Chlorine (Y/N)		
1	PRE-CARB			7-28-10	1120																001	3031653
2	PRIMARY-EFF				1125																002	
3	POST-CARB				1130																003	
4	POST-CARB				1200																004	
5	POST-CARB				1230																005	
6	POST-CARB				1300																005	
7	TB-01																				004	
8																						
9																						
10																						
11																						
12																						
ADDITIONAL COMMENTS		RELINQUISHED Y / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS								
COMPOSITE POUR (4)		Valerie Sibeto		7-28-10		1300		Sibeto		7-28-10		1330										
POST-CARB SAMPLES		Sibeto		7-28-10		1000		Sibeto		7-28-10		1000										
IN LAB AND REPORT																						
AS POST-CARB COMPOSITE																						
ORIGINAL		SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER: VALERIE SIBETO		DATE Signed (MM/DD/YY): 7-28-10		SIGNATURE of SAMPLER: Valerie Sibeto		Temp in °C		Received on		Ice (Y/N)		Sealed Cooler (Y/N)		Custody (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

JSS

Client Name: URSProject # 3031653Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____Tracking #: 8172 5538 1407Custody 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) 5Type of Ice: Wet Blue None☐ Samples on ice, cooling process has begunCooler Temperature 8.3

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: JSS 7/24/10Temp should be above freezing to 6°C All 72 melted

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/AContainers 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: AgAll 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/Aexceptions: VOA, coliform, TOC, O&G, WI-DRO (water) ☒ Yes ☐ No

Initial when completed

JSS

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: _____

Date: 7/29/10

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)

September 16, 2010

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

RE: Project: Essex-Hope Jamestown
Pace Project No.: 3033295

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on September 01, 2010. 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,



Timothy Reed

timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Accounts Payable, URS Corporation

REPORT OF LABORATORY ANALYSIS

Page 1 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: Essex-Hope Jamestown

Pace Project No.: 3033295

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: Essex-Hope Jamestown

Pace Project No.: 3033295

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3033295001	PRE-CARB	EPA 8260	JHC	42	PASI-PA
3033295002	PRIMARY-EFF	EPA 8260	JHC	42	PASI-PA
3033295003	POST-CARB	EPA 8260	JHC	42	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3033295

Sample: PRE-CARB		Lab ID: 3033295001	Collected: 08/31/10 14:20	Received: 09/01/10 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	4280	ug/L	500	50		09/07/10 13:28	67-64-1	
Benzene	23.7	ug/L	1.0	1		09/03/10 19:06	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/03/10 19:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/03/10 19:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/03/10 19:06	74-83-9	
2-Butanone (MEK)	36.8	ug/L	10.0	1		09/03/10 19:06	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/03/10 19:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/03/10 19:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/03/10 19:06	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/03/10 19:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/03/10 19:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/03/10 19:06	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/03/10 19:06	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/03/10 19:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/03/10 19:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/03/10 19:06	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/03/10 19:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/03/10 19:06	107-06-2	
1,1-Dichloroethene	17.8	ug/L	5.0	1		09/03/10 19:06	75-35-4	
cis-1,2-Dichloroethene	7420	ug/L	250	50		09/07/10 13:28	156-59-2	
trans-1,2-Dichloroethene	55.8	ug/L	5.0	1		09/03/10 19:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/03/10 19:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/10 19:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/10 19:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/03/10 19:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/03/10 19:06	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		09/03/10 19:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/03/10 19:06	108-10-1	
Styrene	ND	ug/L	5.0	1		09/03/10 19:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/03/10 19:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/03/10 19:06	127-18-4	
Toluene	ND	ug/L	5.0	1		09/03/10 19:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/03/10 19:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/03/10 19:06	79-00-5	
Trichloroethene	468	ug/L	250	50		09/07/10 13:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/03/10 19:06	75-69-4	
Vinyl chloride	685	ug/L	50.0	50		09/07/10 13:28	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/03/10 19:06	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/03/10 19:06	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		09/03/10 19:06	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		09/03/10 19:06	17060-07-0	
Toluene-d8 (S)	96	%	70-130	1		09/03/10 19:06	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown

Pace Project No.: 3033295

Sample: PRIMARY-EFF		Lab ID: 3033295002	Collected: 08/31/10 14:25	Received: 09/01/10 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	335	ug/L	100	10		09/07/10 19:51	67-64-1	
Benzene	ND	ug/L	1.0	1		09/03/10 19:32	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/03/10 19:32	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/03/10 19:32	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/03/10 19:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/03/10 19:32	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/03/10 19:32	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/03/10 19:32	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/03/10 19:32	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/03/10 19:32	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/03/10 19:32	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/03/10 19:32	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/03/10 19:32	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/03/10 19:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/03/10 19:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/03/10 19:32	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/03/10 19:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/03/10 19:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/03/10 19:32	75-35-4	
cis-1,2-Dichloroethene	230	ug/L	5.0	1		09/03/10 19:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/03/10 19:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/03/10 19:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/10 19:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/10 19:32	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/03/10 19:32	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/03/10 19:32	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		09/03/10 19:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/03/10 19:32	108-10-1	
Styrene	ND	ug/L	5.0	1		09/03/10 19:32	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/03/10 19:32	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/03/10 19:32	127-18-4	
Toluene	ND	ug/L	5.0	1		09/03/10 19:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/03/10 19:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/03/10 19:32	79-00-5	
Trichloroethene	5.4	ug/L	5.0	1		09/03/10 19:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/03/10 19:32	75-69-4	
Vinyl chloride	1350	ug/L	10.0	10		09/07/10 19:51	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/03/10 19:32	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/03/10 19:32	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130	1		09/03/10 19:32	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		09/03/10 19:32	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		09/03/10 19:32	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown

Pace Project No.: 3033295

Sample: POST-CARB **Lab ID: 3033295003** Collected: 08/31/10 14:30 Received: 09/01/10 10:00 Matrix: Water

Comments: • This sample was composited from 4 vials prior to VOA 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		09/14/10 13:09	67-64-1	
Benzene	ND	ug/L	1.0	1		09/14/10 13:09	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/14/10 13:09	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/14/10 13:09	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/14/10 13:09	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/14/10 13:09	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/14/10 13:09	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/14/10 13:09	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/14/10 13:09	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/14/10 13:09	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/14/10 13:09	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/14/10 13:09	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/14/10 13:09	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/14/10 13:09	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/14/10 13:09	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/14/10 13:09	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/14/10 13:09	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/14/10 13:09	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/14/10 13:09	75-35-4	
cis-1,2-Dichloroethene	225	ug/L	5.0	1		09/14/10 13:09	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/14/10 13:09	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/14/10 13:09	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/14/10 13:09	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/14/10 13:09	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/14/10 13:09	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/14/10 13:09	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		09/14/10 13:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/14/10 13:09	108-10-1	
Styrene	ND	ug/L	5.0	1		09/14/10 13:09	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/14/10 13:09	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/14/10 13:09	127-18-4	
Toluene	ND	ug/L	5.0	1		09/14/10 13:09	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/14/10 13:09	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/14/10 13:09	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/14/10 13:09	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/14/10 13:09	75-69-4	
Vinyl chloride	360	ug/L	1.0	1		09/14/10 13:09	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/14/10 13:09	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		09/14/10 13:09	95-47-6	
4-Bromofluorobenzene (S)	96	%	70-130	1		09/14/10 13:09	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130	1		09/14/10 13:09	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1		09/14/10 13:09	2037-26-5	

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3033295

QC Batch: MSV/7025 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3033295001, 3033295002, 3033295003

METHOD BLANK: 211107 Matrix: Water
Associated Lab Samples: 3033295001, 3033295002, 3033295003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	09/03/10 16:07	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	09/03/10 16:07	
1,1,2-Trichloroethane	ug/L	ND	5.0	09/03/10 16:07	
1,1-Dichloroethane	ug/L	ND	5.0	09/03/10 16:07	
1,1-Dichloroethene	ug/L	ND	5.0	09/03/10 16:07	
1,2-Dichlorobenzene	ug/L	ND	5.0	09/03/10 16:07	
1,2-Dichloroethane	ug/L	ND	5.0	09/03/10 16:07	
1,2-Dichloropropane	ug/L	ND	5.0	09/03/10 16:07	
1,3-Dichlorobenzene	ug/L	ND	5.0	09/03/10 16:07	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/03/10 16:07	
2-Butanone (MEK)	ug/L	ND	10.0	09/03/10 16:07	
2-Hexanone	ug/L	ND	10.0	09/03/10 16:07	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	09/03/10 16:07	
Acetone	ug/L	ND	10.0	09/03/10 16:07	
Benzene	ug/L	ND	1.0	09/03/10 16:07	
Bromodichloromethane	ug/L	ND	5.0	09/03/10 16:07	
Bromoform	ug/L	ND	5.0	09/03/10 16:07	
Bromomethane	ug/L	ND	5.0	09/03/10 16:07	
Carbon disulfide	ug/L	ND	5.0	09/03/10 16:07	
Carbon tetrachloride	ug/L	ND	5.0	09/03/10 16:07	
Chlorobenzene	ug/L	ND	5.0	09/03/10 16:07	
Chloroethane	ug/L	ND	5.0	09/03/10 16:07	
Chloroform	ug/L	ND	5.0	09/03/10 16:07	
Chloromethane	ug/L	ND	5.0	09/03/10 16:07	
cis-1,2-Dichloroethene	ug/L	ND	5.0	09/03/10 16:07	
cis-1,3-Dichloropropene	ug/L	ND	5.0	09/03/10 16:07	
Dibromochloromethane	ug/L	ND	5.0	09/03/10 16:07	
Ethylbenzene	ug/L	ND	5.0	09/03/10 16:07	
m&p-Xylene	ug/L	ND	5.0	09/03/10 16:07	
Methylene Chloride	ug/L	ND	5.0	09/03/10 16:07	
o-Xylene	ug/L	ND	5.0	09/03/10 16:07	
Styrene	ug/L	ND	5.0	09/03/10 16:07	
Tetrachloroethene	ug/L	ND	5.0	09/03/10 16:07	
Toluene	ug/L	ND	5.0	09/03/10 16:07	
trans-1,2-Dichloroethene	ug/L	ND	5.0	09/03/10 16:07	
trans-1,3-Dichloropropene	ug/L	ND	5.0	09/03/10 16:07	
Trichloroethene	ug/L	ND	5.0	09/03/10 16:07	
Trichlorofluoromethane	ug/L	ND	5.0	09/03/10 16:07	
Vinyl chloride	ug/L	ND	1.0	09/03/10 16:07	
1,2-Dichloroethane-d4 (S)	%	102	70-130	09/03/10 16:07	
4-Bromofluorobenzene (S)	%	98	70-130	09/03/10 16:07	
Toluene-d8 (S)	%	96	70-130	09/03/10 16:07	

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown

Pace Project No.: 3033295

LABORATORY CONTROL SAMPLE: 211108

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.0	90	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.9	89	70-130	
1,1,2-Trichloroethane	ug/L	20	19.4	97	70-130	
1,1-Dichloroethane	ug/L	20	18.3	92	70-130	
1,1-Dichloroethene	ug/L	20	16.1	81	70-130	
1,2-Dichlorobenzene	ug/L	20	19.7	98	70-130	
1,2-Dichloroethane	ug/L	20	19.0	95	70-130	
1,2-Dichloropropane	ug/L	20	18.9	95	70-130	
1,3-Dichlorobenzene	ug/L	20	19.5	97	70-130	
1,4-Dichlorobenzene	ug/L	20	19.8	99	70-130	
2-Butanone (MEK)	ug/L	20	16.6	83	70-130	
2-Hexanone	ug/L	20	22.4	112	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.1	101	70-130	
Acetone	ug/L	20	16.7	83	70-130	
Benzene	ug/L	20	18.4	92	70-130	
Bromodichloromethane	ug/L	20	18.8	94	70-130	
Bromoform	ug/L	20	18.8	94	70-130	
Bromomethane	ug/L	20	35.9	180	70-130	L0
Carbon disulfide	ug/L	20	18.8	94	70-130	
Carbon tetrachloride	ug/L	20	17.5	88	70-130	
Chlorobenzene	ug/L	20	19.3	97	70-130	
Chloroethane	ug/L	20	16.1	81	70-130	
Chloroform	ug/L	20	18.4	92	70-130	
Chloromethane	ug/L	20	15.0	75	70-130	
cis-1,2-Dichloroethene	ug/L	20	18.5	93	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.2	96	70-130	
Dibromochloromethane	ug/L	20	19.4	97	70-130	
Ethylbenzene	ug/L	20	19.1	96	70-130	
m&p-Xylene	ug/L	40	39.4	98	70-130	
Methylene Chloride	ug/L	20	18.4	92	70-130	
o-Xylene	ug/L	20	19.0	95	70-130	
Styrene	ug/L	20	19.2	96	70-130	
Tetrachloroethene	ug/L	20	18.3	92	70-130	
Toluene	ug/L	20	19.1	95	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.9	90	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.0	95	70-130	
Trichloroethene	ug/L	20	17.9	90	70-130	
Trichlorofluoromethane	ug/L	20	18.1	91	70-130	
Vinyl chloride	ug/L	20	18.5	92	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			98	70-130	

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3033295

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 211109 211110											
Parameter	Units	3033214006 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	20.3	98	101	70-130	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.6	18.2	88	91	70-130	3	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.0	19.8	95	99	70-130	4	
1,1-Dichloroethane	ug/L	ND	20	20	19.6	19.9	98	100	70-130	2	
1,1-Dichloroethene	ug/L	ND	20	20	18.0	18.8	90	94	70-130	4	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.1	19.7	96	99	70-130	3	
1,2-Dichloroethane	ug/L	ND	20	20	19.0	19.6	95	98	70-130	3	
1,2-Dichloropropane	ug/L	ND	20	20	19.0	19.6	95	98	70-130	3	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.1	19.7	96	98	70-130	3	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.8	20.3	99	102	70-130	3	
2-Butanone (MEK)	ug/L	ND	20	20	15.6	18.8	78	94	70-130	19	
2-Hexanone	ug/L	ND	20	20	19.8	26.1	99	130	70-130	27	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	17.9	23.4	89	117	70-130	27	
Acetone	ug/L	ND	20	20	17.5	21.2	88	106	70-130	19	
Benzene	ug/L	ND	20	20	19.3	19.8	96	99	70-130	3	
Bromodichloromethane	ug/L	ND	20	20	18.6	19.1	93	96	70-130	3	
Bromoform	ug/L	ND	20	20	17.5	17.9	87	90	70-130	2	
Bromomethane	ug/L	ND	20	20	10.3	15.0	51	75	70-130	37	M0,R1
Carbon disulfide	ug/L	ND	20	20	20.2	21.0	101	105	70-130	4	
Carbon tetrachloride	ug/L	ND	20	20	19.1	19.6	95	98	70-130	3	
Chlorobenzene	ug/L	ND	20	20	19.7	20.3	98	101	70-130	3	
Chloroethane	ug/L	ND	20	20	22.1	17.7	110	88	70-130	22	
Chloroform	ug/L	ND	20	20	19.0	19.1	95	95	70-130	.3	
Chloromethane	ug/L	ND	20	20	13.5	15.1	63	71	70-130	12	M0
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.3	21.0	107	105	70-130	2	
cis-1,3-Dichloropropene	ug/L	ND	20	20	18.7	19.2	94	96	70-130	2	
Dibromochloromethane	ug/L	ND	20	20	18.6	19.2	93	96	70-130	3	
Ethylbenzene	ug/L	ND	20	20	20.1	20.7	101	103	70-130	3	
m&p-Xylene	ug/L	ND	40	40	40.6	42.0	102	105	70-130	3	
Methylene Chloride	ug/L	ND	20	20	19.6	19.5	95	94	70-130	.5	
o-Xylene	ug/L	ND	20	20	19.5	20.1	97	101	70-130	3	
Styrene	ug/L	ND	20	20	19.1	19.4	95	97	70-130	2	
Tetrachloroethene	ug/L	ND	20	20	19.6	20.4	98	102	70-130	4	
Toluene	ug/L	ND	20	20	20.0	20.5	100	103	70-130	2	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.7	20.2	99	101	70-130	2	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.0	18.4	90	92	70-130	2	
Trichloroethene	ug/L	ND	20	20	19.2	19.7	96	99	70-130	3	
Trichlorofluoromethane	ug/L	ND	20	20	16.5	18.6	82	93	70-130	12	
Vinyl chloride	ug/L	ND	20	20	19.2	20.3	96	101	70-130	5	
1,2-Dichloroethane-d4 (S)	%						102	94	70-130		
4-Bromofluorobenzene (S)	%						98	96	70-130		
Toluene-d8 (S)	%						98	98	70-130		

QUALIFIERS

Project: Essex-Hope Jamestown
Pace Project No.: 3033295

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.

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

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.

R1 RPD value was outside control limits.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope Jamestown

Pace Project No.: 3033295

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3033295001	PRE-CARB	EPA 8260	MSV/7025		
3033295002	PRIMARY-EFF	EPA 8260	MSV/7025		
3033295003	POST-CARB	EPA 8260	MSV/7025		

Section A

Required Client Information:

Company: URS CORP
Address: POSTER PLACE, STE 300
501 HOLIDAY DR
PITTSBURGH, PA 15220
Email To:

100

Required Project Information:

Report To:	MARY DOWDAK
Copy To:	VALERIE SIARO
Purchase Order No.	41568652
Project Name	ESSEX/HIRE JAYESTOWN
Project Number	4156865210000

Section C

Information

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

REGULATORY AGENCY

☐ GROUND WATER
☐ RCRA

☐ DRINKING WATER

☐ Other

SITE LOCATION

☐ CA ☐ L ☐ Z ☐ W ☐ D ☐ C

☐ OH ☐ SC ☐ WI ☒ OTHER

ITEM #	Section D Required Client Information																																																																																																	
SAMPLE ID One Character per box. (A-Z, 0-9 / -) Samples IDs MUST BE UNIQUE																																																																																																		
Requested Due Date/TAT:		4/12/503-4700		FAX: 412-503-4701		Project Name: ESSEX/HIRE JAYESTOWN		Pace Project Manager:																																																																																										
Requested Due Date/TAT:		STANDARD		Project Number: 41250365210000		Project Profile #:																																																																																												
Valid Matrix Codes				<table border="1"> <tr> <th>MATRIX CODE</th> <th>SAMPLE TYPE</th> <th>COMPOSITE START</th> <th>COMPOSITE END/GRAB</th> <th>DATE</th> <th>TIME</th> <th>DATE</th> <th>TIME</th> </tr> <tr> <td>DRINKING WATER</td> <td>DW</td> <td colspan="2">COLLECTED</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>WATER</td> <td>WT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>WASTE WATER</td> <td>WW</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>PRODUCT</td> <td>P</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SOIL/SOLID</td> <td>SL</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>OIL</td> <td>OL</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>WIPE</td> <td>WP</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>AIR</td> <td>AR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>OTHER</td> <td>OT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TISSUE</td> <td>TS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>							MATRIX CODE	SAMPLE TYPE	COMPOSITE START	COMPOSITE END/GRAB	DATE	TIME	DATE	TIME	DRINKING WATER	DW	COLLECTED						WATER	WT							WASTE WATER	WW							PRODUCT	P							SOIL/SOLID	SL							OIL	OL							WIPE	WP							AIR	AR							OTHER	OT							TISSUE	TS						
MATRIX CODE	SAMPLE TYPE	COMPOSITE START	COMPOSITE END/GRAB	DATE	TIME	DATE	TIME																																																																																											
DRINKING WATER	DW	COLLECTED																																																																																																
WATER	WT																																																																																																	
WASTE WATER	WW																																																																																																	
PRODUCT	P																																																																																																	
SOIL/SOLID	SL																																																																																																	
OIL	OL																																																																																																	
WIPE	WP																																																																																																	
AIR	AR																																																																																																	
OTHER	OT																																																																																																	
TISSUE	TS																																																																																																	
				MATRIX CODE				G=GRAB C=COMP																																																																																										
				SAMPLE TYPE				# OF																																																																																										
				CONTAINERS				AT COLLECTION																																																																																										
				SAMPLE TEMP				Unpreserved																																																																																										
								H ₂ SO ₄																																																																																										
								HNO ₃																																																																																										
								HCl																																																																																										
								NaOH																																																																																										
								MnSO ₄																																																																																										
								Methanol																																																																																										
								Other																																																																																										
								Preservatives																																																																																										
								Filtered (Y/N)																																																																																										
								Requested Analysis:																																																																																										
								Pace Project Number																																																																																										
								Lab ID																																																																																										

[illegible]

Additional Comments:

COMPOSITE FIVE (4) POST-CARB
SAMPLES, N LAB AND REPORT-
AS POST-CARB COMPOSITE.

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE/SAMPLER: VHCBZ

SEE REVERSE SIDE FOR INSTRUCTIONS

DATE Signed (MM/DD/YY)

[illegible]



Sample Condition Upon Receipt

LEL

Client Name: URS

Project # 3033295

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

Tracking #: 867255381418

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 5

Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature 1.1

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: SMB 9/1/10

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: <u>Ag</u>		
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: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water)	☒ Yes ☐ No	Initial when completed <u>SMB</u> 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:

Date: 9/2/10

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)

October 12, 2010

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

RE: Project: Essex-Hope Jamestown
Pace Project No.: 3034563

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on September 28, 2010. 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,



Timothy Reed

timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Accounts Payable, URS Corporation

REPORT OF LABORATORY ANALYSIS

Page 1 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: Essex-Hope Jamestown

Pace Project No.: 3034563

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: Essex-Hope Jamestown

Pace Project No.: 3034563

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3034563001	PRE-CARB	EPA 8260	MAK	42	PASI-PA
3034563002	PRIMARY EFF	EPA 8260	MAK	42	PASI-PA
3034563003	POST CARB	EPA 8260	MAK	42	PASI-PA
3034563004	TB-01	EPA 8260	MAK	42	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3034563

Sample: PRE-CARB		Lab ID: 3034563001	Collected: 09/27/10 12:20	Received: 09/28/10 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	1110	ug/L	200	20		10/04/10 15:32	67-64-1	
Benzene	14.3	ug/L	1.0	1		10/04/10 15:06	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/04/10 15:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/04/10 15:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/04/10 15:06	74-83-9	
2-Butanone (MEK)	11.2	ug/L	10.0	1		10/04/10 15:06	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/04/10 15:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/04/10 15:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/04/10 15:06	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/04/10 15:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/04/10 15:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/04/10 15:06	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/04/10 15:06	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/04/10 15:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/04/10 15:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/04/10 15:06	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/04/10 15:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/04/10 15:06	107-06-2	
1,1-Dichloroethene	18.0	ug/L	5.0	1		10/04/10 15:06	75-35-4	
cis-1,2-Dichloroethene	6090	ug/L	100	20		10/04/10 15:32	156-59-2	
trans-1,2-Dichloroethene	121	ug/L	5.0	1		10/04/10 15:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/04/10 15:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/10 15:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/10 15:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/04/10 15:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/04/10 15:06	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/04/10 15:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/04/10 15:06	108-10-1	
Styrene	ND	ug/L	5.0	1		10/04/10 15:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/10 15:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/04/10 15:06	127-18-4	
Toluene	ND	ug/L	5.0	1		10/04/10 15:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/04/10 15:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/04/10 15:06	79-00-5	
Trichloroethene	2080	ug/L	100	20		10/04/10 15:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/04/10 15:06	75-69-4	
Vinyl chloride	628	ug/L	20.0	20		10/04/10 15:32	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/04/10 15:06	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/04/10 15:06	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		10/04/10 15:06	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130	1		10/04/10 15:06	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		10/04/10 15:06	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown

Pace Project No.: 3034563

Sample: PRIMARY EFF		Lab ID: 3034563002	Collected: 09/27/10 12:25	Received: 09/28/10 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	224 ug/L		10.0	1		10/04/10 15:58	67-64-1	
Benzene	ND ug/L		1.0	1		10/04/10 15:58	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		10/04/10 15:58	75-27-4	
Bromoform	ND ug/L		5.0	1		10/04/10 15:58	75-25-2	
Bromomethane	ND ug/L		5.0	1		10/04/10 15:58	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		10/04/10 15:58	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		10/04/10 15:58	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		10/04/10 15:58	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		10/04/10 15:58	108-90-7	
Chloroethane	ND ug/L		5.0	1		10/04/10 15:58	75-00-3	
Chloroform	ND ug/L		5.0	1		10/04/10 15:58	67-66-3	
Chloromethane	ND ug/L		5.0	1		10/04/10 15:58	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		10/04/10 15:58	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		10/04/10 15:58	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		10/04/10 15:58	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		10/04/10 15:58	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		10/04/10 15:58	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		10/04/10 15:58	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		10/04/10 15:58	75-35-4	
cis-1,2-Dichloroethene	2530 ug/L		100	20		10/04/10 16:24	156-59-2	
trans-1,2-Dichloroethene	16.5 ug/L		5.0	1		10/04/10 15:58	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		10/04/10 15:58	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		10/04/10 15:58	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		10/04/10 15:58	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		10/04/10 15:58	100-41-4	
2-Hexanone	ND ug/L		10.0	1		10/04/10 15:58	591-78-6	
Methylene Chloride	ND ug/L		5.0	1		10/04/10 15:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		10/04/10 15:58	108-10-1	
Styrene	ND ug/L		5.0	1		10/04/10 15:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		10/04/10 15:58	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		10/04/10 15:58	127-18-4	
Toluene	ND ug/L		5.0	1		10/04/10 15:58	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		10/04/10 15:58	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		10/04/10 15:58	79-00-5	
Trichloroethene	109 ug/L		5.0	1		10/04/10 15:58	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		10/04/10 15:58	75-69-4	
Vinyl chloride	845 ug/L		20.0	20		10/04/10 16:24	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		10/04/10 15:58	179601-23-1	
o-Xylene	ND ug/L		5.0	1		10/04/10 15:58	95-47-6	
4-Bromofluorobenzene (S)	101 %		70-130	1		10/04/10 15:58	460-00-4	
1,2-Dichloroethane-d4 (S)	98 %		70-130	1		10/04/10 15:58	17060-07-0	
Toluene-d8 (S)	100 %		70-130	1		10/04/10 15:58	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown

Pace Project No.: 3034563

Sample: POST CARB		Lab ID: 3034563003	Collected: 09/27/10 12:30	Received: 09/28/10 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		10/04/10 16:50	67-64-1	
Benzene	ND	ug/L	1.0	1		10/04/10 16:50	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/04/10 16:50	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/04/10 16:50	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/04/10 16:50	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/04/10 16:50	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/04/10 16:50	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/04/10 16:50	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/04/10 16:50	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/04/10 16:50	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/04/10 16:50	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/04/10 16:50	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/04/10 16:50	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/04/10 16:50	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/04/10 16:50	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/04/10 16:50	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/04/10 16:50	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/04/10 16:50	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/04/10 16:50	75-35-4	
cis-1,2-Dichloroethene	166	ug/L	5.0	1		10/04/10 16:50	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/04/10 16:50	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/04/10 16:50	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/10 16:50	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/04/10 16:50	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/04/10 16:50	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/04/10 16:50	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/04/10 16:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/04/10 16:50	108-10-1	
Styrene	ND	ug/L	5.0	1		10/04/10 16:50	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/04/10 16:50	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/04/10 16:50	127-18-4	
Toluene	ND	ug/L	5.0	1		10/04/10 16:50	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/04/10 16:50	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/04/10 16:50	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/04/10 16:50	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/04/10 16:50	75-69-4	
Vinyl chloride	895	ug/L	10.0	10		10/04/10 17:16	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/04/10 16:50	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/04/10 16:50	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		10/04/10 16:50	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130	1		10/04/10 16:50	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		10/04/10 16:50	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3034563

Sample: TB-01		Lab ID: 3034563004		Collected: 09/27/10 00:00		Received: 09/28/10 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			10/04/10 14:40	67-64-1	
Benzene	ND	ug/L	1.0	1			10/04/10 14:40	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1			10/04/10 14:40	75-27-4	
Bromoform	ND	ug/L	5.0	1			10/04/10 14:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1			10/04/10 14:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1			10/04/10 14:40	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1			10/04/10 14:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1			10/04/10 14:40	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1			10/04/10 14:40	108-90-7	
Chloroethane	ND	ug/L	5.0	1			10/04/10 14:40	75-00-3	
Chloroform	ND	ug/L	5.0	1			10/04/10 14:40	67-66-3	
Chloromethane	ND	ug/L	5.0	1			10/04/10 14:40	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1			10/04/10 14:40	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1			10/04/10 14:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1			10/04/10 14:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1			10/04/10 14:40	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1			10/04/10 14:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1			10/04/10 14:40	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1			10/04/10 14:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1			10/04/10 14:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1			10/04/10 14:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1			10/04/10 14:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1			10/04/10 14:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1			10/04/10 14:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1			10/04/10 14:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1			10/04/10 14:40	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1			10/04/10 14:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1			10/04/10 14:40	108-10-1	
Styrene	ND	ug/L	5.0	1			10/04/10 14:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1			10/04/10 14:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1			10/04/10 14:40	127-18-4	
Toluene	ND	ug/L	5.0	1			10/04/10 14:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1			10/04/10 14:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1			10/04/10 14:40	79-00-5	
Trichloroethene	ND	ug/L	5.0	1			10/04/10 14:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1			10/04/10 14:40	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1			10/04/10 14:40	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1			10/04/10 14:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	1			10/04/10 14:40	95-47-6	
4-Bromofluorobenzene (S)	100	%	70-130	1			10/04/10 14:40	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1			10/04/10 14:40	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1			10/04/10 14:40	2037-26-5	

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3034563

QC Batch: MSV/7313 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3034563001, 3034563002, 3034563003, 3034563004

METHOD BLANK: 222579 Matrix: Water
Associated Lab Samples: 3034563001, 3034563002, 3034563003, 3034563004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/04/10 14:14	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/04/10 14:14	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/04/10 14:14	
1,1-Dichloroethane	ug/L	ND	5.0	10/04/10 14:14	
1,1-Dichloroethene	ug/L	ND	5.0	10/04/10 14:14	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/04/10 14:14	
1,2-Dichloroethane	ug/L	ND	5.0	10/04/10 14:14	
1,2-Dichloropropane	ug/L	ND	5.0	10/04/10 14:14	
1,3-Dichlorobenzene	ug/L	ND	5.0	10/04/10 14:14	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/04/10 14:14	
2-Butanone (MEK)	ug/L	ND	10.0	10/04/10 14:14	
2-Hexanone	ug/L	ND	10.0	10/04/10 14:14	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/04/10 14:14	
Acetone	ug/L	ND	10.0	10/04/10 14:14	
Benzene	ug/L	ND	1.0	10/04/10 14:14	
Bromodichloromethane	ug/L	ND	5.0	10/04/10 14:14	
Bromoform	ug/L	ND	5.0	10/04/10 14:14	
Bromomethane	ug/L	ND	5.0	10/04/10 14:14	
Carbon disulfide	ug/L	ND	5.0	10/04/10 14:14	
Carbon tetrachloride	ug/L	ND	5.0	10/04/10 14:14	
Chlorobenzene	ug/L	ND	5.0	10/04/10 14:14	
Chloroethane	ug/L	ND	5.0	10/04/10 14:14	
Chloroform	ug/L	ND	5.0	10/04/10 14:14	
Chloromethane	ug/L	ND	5.0	10/04/10 14:14	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/04/10 14:14	
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/04/10 14:14	
Dibromochloromethane	ug/L	ND	5.0	10/04/10 14:14	
Ethylbenzene	ug/L	ND	5.0	10/04/10 14:14	
m&p-Xylene	ug/L	ND	5.0	10/04/10 14:14	
Methylene Chloride	ug/L	ND	5.0	10/04/10 14:14	
o-Xylene	ug/L	ND	5.0	10/04/10 14:14	
Styrene	ug/L	ND	5.0	10/04/10 14:14	
Tetrachloroethene	ug/L	ND	5.0	10/04/10 14:14	
Toluene	ug/L	ND	5.0	10/04/10 14:14	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/04/10 14:14	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/04/10 14:14	
Trichloroethene	ug/L	ND	5.0	10/04/10 14:14	
Trichlorofluoromethane	ug/L	ND	5.0	10/04/10 14:14	
Vinyl chloride	ug/L	ND	1.0	10/04/10 14:14	
1,2-Dichloroethane-d4 (S)	%	99	70-130	10/04/10 14:14	
4-Bromofluorobenzene (S)	%	99	70-130	10/04/10 14:14	
Toluene-d8 (S)	%	98	70-130	10/04/10 14:14	

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown

Pace Project No.: 3034563

LABORATORY CONTROL SAMPLE: 222580

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.8	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.1	95	70-130	
1,1,2-Trichloroethane	ug/L	20	20.4	102	70-130	
1,1-Dichloroethane	ug/L	20	21.7	109	70-130	
1,1-Dichloroethene	ug/L	20	16.5	82	70-130	
1,2-Dichlorobenzene	ug/L	20	20.4	102	70-130	
1,2-Dichloroethane	ug/L	20	20.8	104	70-130	
1,2-Dichloropropane	ug/L	20	20.5	102	70-130	
1,3-Dichlorobenzene	ug/L	20	20.5	103	70-130	
1,4-Dichlorobenzene	ug/L	20	20.6	103	70-130	
2-Butanone (MEK)	ug/L	20	21.2	106	70-130	
2-Hexanone	ug/L	20	21.4	107	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.0	100	70-130	
Acetone	ug/L	20	23.7	118	70-130	
Benzene	ug/L	20	21.9	110	70-130	
Bromodichloromethane	ug/L	20	19.5	97	70-130	
Bromoform	ug/L	20	17.2	86	70-130	
Bromomethane	ug/L	20	38.7	194	70-130	L1
Carbon disulfide	ug/L	20	15.1	76	70-130	
Carbon tetrachloride	ug/L	20	20.8	104	70-130	
Chlorobenzene	ug/L	20	20.8	104	70-130	
Chloroethane	ug/L	20	19.9	100	70-130	
Chloroform	ug/L	20	20.6	103	70-130	
Chloromethane	ug/L	20	19.9	99	70-130	
cis-1,2-Dichloroethene	ug/L	20	21.8	109	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.7	98	70-130	
Dibromochloromethane	ug/L	20	18.3	91	70-130	
Ethylbenzene	ug/L	20	21.1	105	70-130	
m&p-Xylene	ug/L	40	44.0	110	70-130	
Methylene Chloride	ug/L	20	20.6	103	70-130	
o-Xylene	ug/L	20	21.1	106	70-130	
Styrene	ug/L	20	20.5	102	70-130	
Tetrachloroethene	ug/L	20	21.0	105	70-130	
Toluene	ug/L	20	21.8	109	70-130	
trans-1,2-Dichloroethene	ug/L	20	21.8	109	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.8	99	70-130	
Trichloroethene	ug/L	20	20.6	103	70-130	
Trichlorofluoromethane	ug/L	20	20.7	103	70-130	
Vinyl chloride	ug/L	20	20.6	103	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			100	70-130	

QUALIFIERS

Project: Essex-Hope Jamestown
Pace Project No.: 3034563

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.

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

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.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope Jamestown

Pace Project No.: 3034563

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3034563001	PRE-CARB	EPA 8260	MSV/7313		
3034563002	PRIMARY EFF	EPA 8260	MSV/7313		
3034563003	POST CARB	EPA 8260	MSV/7313		
3034563004	TB-01	EPA 8260	MSV/7313		

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	URS CORP	Report To:	MARY DOMINAK	Attention:	
Address:	FOSTER PULASKI 4, STE 300 501 HILLWAY DR. PITTSBURGH, PA 15220	Copy To:	VALERIE SIBETO	Company Name:	
Email To:				Address:	
Phone:	412-503-4700	Purchase Order No.:	41568652	Pace Quote Reference:	
Fac:	412-503-4701	Project Name:	ESSEX/HOPE JAMESTOWN	Pace Project Manager:	
Requested Due Date/TAT:	STANDARD	Project Number:	41946452.10000	Pace Profile #:	

Page: 1	of 1	
1364892		
REGULATORY AGENCY		
☐ NPDES	☐ GROUND WATER	☐ DRINKING WATER
☐ UST	☐ RCRA	☐ OTHER
Site Location		NY
STATE:		

[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
							Received on	Custody	Sealed Cooler	Samples Intact	
COMPOSITE FOUR (H)	Glenn Fink/URS	9.27.10	1430	Red Ox	9.27.10	1430					
POST-CARB SAMPLES IN				Ans Juntt	9.28.10	56	Y	N	Y		
LAB AND REPORT AS											
POST-CARB COMPOSITE											

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	VALERIE SIBERD
SIGNATURE of SAMPLER	9.27.10



Sample Condition Upon Receipt

LFL

Client Name: URS

Project # 3034563

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

Tracking #: 867255381429

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

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

Thermometer Used 3 5

Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 5.7

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: LFL 9/28/10

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: <u>AL</u>		
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: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water)	☒ Yes ☐ No	Initial when completed <u>LFL</u> 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: _____

Date: 9/29/10

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)

November 02, 2010

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

RE: Project: Essex/Hope Jamestown
Pace Project No.: 3035796

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on October 19, 2010. 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,



David A. Pichette for
Timothy Reed
timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Accounts Payable, URS Corporation

REPORT OF LABORATORY ANALYSIS

Page 1 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: Essex/Hope Jamestown
Pace Project No.: 3035796

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: Essex/Hope Jamestown

Pace Project No.: 3035796

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3035796001	PRE-CARB	EPA 8260	JAS	42	PASI-PA
3035796002	PRIMARY-EFF	EPA 8260	JAS	42	PASI-PA
3035796003	POST-CARB	EPA 8260	JAS	42	PASI-PA
3035796007	TB-01	EPA 8260	JAS	42	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 11

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown

Pace Project No.: 3035796

Sample: PRE-CARB		Lab ID: 3035796001		Collected: 10/18/10 09:05		Received: 10/19/10 10:00		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV		Analytical Method: EPA 8260							
Acetone	3340	ug/L	400	40		10/20/10 20:14	67-64-1		
Benzene	13.7	ug/L	1.0	1		10/20/10 19:48	71-43-2		
Bromodichloromethane	ND	ug/L	5.0	1		10/20/10 19:48	75-27-4		
Bromoform	ND	ug/L	5.0	1		10/20/10 19:48	75-25-2		
Bromomethane	ND	ug/L	5.0	1		10/20/10 19:48	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		10/20/10 19:48	78-93-3		
Carbon disulfide	ND	ug/L	5.0	1		10/20/10 19:48	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		10/20/10 19:48	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		10/20/10 19:48	108-90-7		
Chloroethane	ND	ug/L	5.0	1		10/20/10 19:48	75-00-3		
Chloroform	ND	ug/L	5.0	1		10/20/10 19:48	67-66-3		
Chloromethane	ND	ug/L	5.0	1		10/20/10 19:48	74-87-3		
Dibromochloromethane	ND	ug/L	5.0	1		10/20/10 19:48	124-48-1		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/20/10 19:48	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/20/10 19:48	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/20/10 19:48	106-46-7		
1,1-Dichloroethane	ND	ug/L	5.0	1		10/20/10 19:48	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		10/20/10 19:48	107-06-2		
1,1-Dichloroethene	22.0	ug/L	5.0	1		10/20/10 19:48	75-35-4		
cis-1,2-Dichloroethene	6690	ug/L	200	40		10/20/10 20:14	156-59-2		
trans-1,2-Dichloroethene	47.2	ug/L	5.0	1		10/20/10 19:48	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		10/20/10 19:48	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/20/10 19:48	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/20/10 19:48	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		10/20/10 19:48	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		10/20/10 19:48	591-78-6		
Methylene Chloride	ND	ug/L	5.0	1		10/20/10 19:48	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/20/10 19:48	108-10-1		
Styrene	ND	ug/L	5.0	1		10/20/10 19:48	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/20/10 19:48	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		10/20/10 19:48	127-18-4		
Toluene	ND	ug/L	5.0	1		10/20/10 19:48	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/20/10 19:48	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/20/10 19:48	79-00-5		
Trichloroethene	1110	ug/L	200	40		10/20/10 20:14	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		10/20/10 19:48	75-69-4		
Vinyl chloride	854	ug/L	40.0	40		10/20/10 20:14	75-01-4		
m&p-Xylene	ND	ug/L	5.0	1		10/20/10 19:48	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		10/20/10 19:48	95-47-6		
4-Bromofluorobenzene (S)	87	%	70-130	1		10/20/10 19:48	460-00-4		
1,2-Dichloroethane-d4 (S)	117	%	70-130	1		10/20/10 19:48	17060-07-0		
Toluene-d8 (S)	92	%	70-130	1		10/20/10 19:48	2037-26-5		

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown

Pace Project No.: 3035796

Sample: PRIMARY-EFF		Lab ID: 3035796002	Collected: 10/18/10 09:10	Received: 10/19/10 10:00	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	72.0	ug/L	10.0	1		10/20/10 20:40	67-64-1	
Benzene	ND	ug/L	1.0	1		10/20/10 20:40	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/20/10 20:40	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/20/10 20:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/20/10 20:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/20/10 20:40	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/20/10 20:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/20/10 20:40	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/20/10 20:40	108-90-7	
Chloroethane	5.4	ug/L	5.0	1		10/20/10 20:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/20/10 20:40	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/20/10 20:40	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/20/10 20:40	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/20/10 20:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/20/10 20:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/20/10 20:40	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/20/10 20:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/20/10 20:40	107-06-2	
1,1-Dichloroethene	7.2	ug/L	5.0	1		10/20/10 20:40	75-35-4	
cis-1,2-Dichloroethene	3890	ug/L	100	20		10/20/10 21:06	156-59-2	
trans-1,2-Dichloroethene	20.2	ug/L	5.0	1		10/20/10 20:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/20/10 20:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/20/10 20:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/20/10 20:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/20/10 20:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/20/10 20:40	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/20/10 20:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/20/10 20:40	108-10-1	
Styrene	ND	ug/L	5.0	1		10/20/10 20:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/20/10 20:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/20/10 20:40	127-18-4	
Toluene	ND	ug/L	5.0	1		10/20/10 20:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/20/10 20:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/20/10 20:40	79-00-5	
Trichloroethene	34.4	ug/L	5.0	1		10/20/10 20:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/20/10 20:40	75-69-4	
Vinyl chloride	692	ug/L	20.0	20		10/20/10 21:06	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/20/10 20:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/20/10 20:40	95-47-6	
4-Bromofluorobenzene (S)	92	%	70-130	1		10/20/10 20:40	460-00-4	
1,2-Dichloroethane-d4 (S)	125	%	70-130	1		10/20/10 20:40	17060-07-0	
Toluene-d8 (S)	89	%	70-130	1		10/20/10 20:40	2037-26-5	

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown

Pace Project No.: 3035796

Sample: POST-CARB		Lab ID: 3035796003	Collected: 10/18/10 09:15	Received: 10/19/10 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		10/20/10 21:32	67-64-1	
Benzene	ND	ug/L	1.0	1		10/20/10 21:32	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		10/20/10 21:32	75-27-4	
Bromoform	ND	ug/L	5.0	1		10/20/10 21:32	75-25-2	
Bromomethane	ND	ug/L	5.0	1		10/20/10 21:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		10/20/10 21:32	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		10/20/10 21:32	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		10/20/10 21:32	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		10/20/10 21:32	108-90-7	
Chloroethane	ND	ug/L	5.0	1		10/20/10 21:32	75-00-3	
Chloroform	ND	ug/L	5.0	1		10/20/10 21:32	67-66-3	
Chloromethane	ND	ug/L	5.0	1		10/20/10 21:32	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		10/20/10 21:32	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		10/20/10 21:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		10/20/10 21:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		10/20/10 21:32	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		10/20/10 21:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		10/20/10 21:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		10/20/10 21:32	75-35-4	
cis-1,2-Dichloroethene	151	ug/L	5.0	1		10/20/10 21:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		10/20/10 21:32	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		10/20/10 21:32	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		10/20/10 21:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		10/20/10 21:32	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		10/20/10 21:32	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		10/20/10 21:32	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		10/20/10 21:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		10/20/10 21:32	108-10-1	
Styrene	ND	ug/L	5.0	1		10/20/10 21:32	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		10/20/10 21:32	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		10/20/10 21:32	127-18-4	
Toluene	ND	ug/L	5.0	1		10/20/10 21:32	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		10/20/10 21:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		10/20/10 21:32	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		10/20/10 21:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		10/20/10 21:32	75-69-4	
Vinyl chloride	1340	ug/L	10.0	10		10/20/10 21:58	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		10/20/10 21:32	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		10/20/10 21:32	95-47-6	
4-Bromofluorobenzene (S)	89	%	70-130	1		10/20/10 21:32	460-00-4	
1,2-Dichloroethane-d4 (S)	128	%	70-130	1		10/20/10 21:32	17060-07-0	
Toluene-d8 (S)	88	%	70-130	1		10/20/10 21:32	2037-26-5	

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown

Pace Project No.: 3035796

Sample: TB-01		Lab ID: 3035796007	Collected: 10/18/10 00:01	Received: 10/19/10 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		10/20/10 22:24	67-64-1	
Benzene	ND ug/L		1.0	1		10/20/10 22:24	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		10/20/10 22:24	75-27-4	
Bromoform	ND ug/L		5.0	1		10/20/10 22:24	75-25-2	
Bromomethane	ND ug/L		5.0	1		10/20/10 22:24	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		10/20/10 22:24	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		10/20/10 22:24	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		10/20/10 22:24	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		10/20/10 22:24	108-90-7	
Chloroethane	ND ug/L		5.0	1		10/20/10 22:24	75-00-3	
Chloroform	ND ug/L		5.0	1		10/20/10 22:24	67-66-3	
Chloromethane	ND ug/L		5.0	1		10/20/10 22:24	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		10/20/10 22:24	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		10/20/10 22:24	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		10/20/10 22:24	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		10/20/10 22:24	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		10/20/10 22:24	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		10/20/10 22:24	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		10/20/10 22:24	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		10/20/10 22:24	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		10/20/10 22:24	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		10/20/10 22:24	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		10/20/10 22:24	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		10/20/10 22:24	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		10/20/10 22:24	100-41-4	
2-Hexanone	ND ug/L		10.0	1		10/20/10 22:24	591-78-6	
Methylene Chloride	ND ug/L		5.0	1		10/20/10 22:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		10/20/10 22:24	108-10-1	
Styrene	ND ug/L		5.0	1		10/20/10 22:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		10/20/10 22:24	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		10/20/10 22:24	127-18-4	
Toluene	ND ug/L		5.0	1		10/20/10 22:24	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		10/20/10 22:24	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		10/20/10 22:24	79-00-5	
Trichloroethene	ND ug/L		5.0	1		10/20/10 22:24	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		10/20/10 22:24	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		10/20/10 22:24	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		10/20/10 22:24	179601-23-1	
o-Xylene	ND ug/L		5.0	1		10/20/10 22:24	95-47-6	
4-Bromofluorobenzene (S)	93 %		70-130	1		10/20/10 22:24	460-00-4	
1,2-Dichloroethane-d4 (S)	134 %		70-130	1		10/20/10 22:24	17060-07-0	S6
Toluene-d8 (S)	91 %		70-130	1		10/20/10 22:24	2037-26-5	

QUALITY CONTROL DATA

Project: Essex/Hope Jamestown

Pace Project No.: 3035796

QC Batch: MSV/7507 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3035796001, 3035796002, 3035796003, 3035796007

METHOD BLANK: 229640 Matrix: Water

Associated Lab Samples: 3035796001, 3035796002, 3035796003, 3035796007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	10/20/10 13:43	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	10/20/10 13:43	
1,1,2-Trichloroethane	ug/L	ND	5.0	10/20/10 13:43	
1,1-Dichloroethane	ug/L	ND	5.0	10/20/10 13:43	
1,1-Dichloroethene	ug/L	ND	5.0	10/20/10 13:43	
1,2-Dichlorobenzene	ug/L	ND	5.0	10/20/10 13:43	
1,2-Dichloroethane	ug/L	ND	5.0	10/20/10 13:43	
1,2-Dichloropropane	ug/L	ND	5.0	10/20/10 13:43	
1,3-Dichlorobenzene	ug/L	ND	5.0	10/20/10 13:43	
1,4-Dichlorobenzene	ug/L	ND	5.0	10/20/10 13:43	
2-Butanone (MEK)	ug/L	ND	10.0	10/20/10 13:43	
2-Hexanone	ug/L	ND	10.0	10/20/10 13:43	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	10/20/10 13:43	
Acetone	ug/L	ND	10.0	10/20/10 13:43	
Benzene	ug/L	ND	1.0	10/20/10 13:43	
Bromodichloromethane	ug/L	ND	5.0	10/20/10 13:43	
Bromoform	ug/L	ND	5.0	10/20/10 13:43	
Bromomethane	ug/L	ND	5.0	10/20/10 13:43	B-
Carbon disulfide	ug/L	ND	5.0	10/20/10 13:43	
Carbon tetrachloride	ug/L	ND	5.0	10/20/10 13:43	
Chlorobenzene	ug/L	ND	5.0	10/20/10 13:43	
Chloroethane	ug/L	ND	5.0	10/20/10 13:43	
Chloroform	ug/L	ND	5.0	10/20/10 13:43	
Chloromethane	ug/L	ND	5.0	10/20/10 13:43	
cis-1,2-Dichloroethene	ug/L	ND	5.0	10/20/10 13:43	
cis-1,3-Dichloropropene	ug/L	ND	5.0	10/20/10 13:43	
Dibromochloromethane	ug/L	ND	5.0	10/20/10 13:43	
Ethylbenzene	ug/L	ND	5.0	10/20/10 13:43	
m&p-Xylene	ug/L	ND	5.0	10/20/10 13:43	
Methylene Chloride	ug/L	ND	5.0	10/20/10 13:43	
o-Xylene	ug/L	ND	5.0	10/20/10 13:43	
Styrene	ug/L	ND	5.0	10/20/10 13:43	
Tetrachloroethene	ug/L	ND	5.0	10/20/10 13:43	
Toluene	ug/L	ND	5.0	10/20/10 13:43	
trans-1,2-Dichloroethene	ug/L	ND	5.0	10/20/10 13:43	
trans-1,3-Dichloropropene	ug/L	ND	5.0	10/20/10 13:43	
Trichloroethene	ug/L	ND	5.0	10/20/10 13:43	
Trichlorofluoromethane	ug/L	ND	5.0	10/20/10 13:43	
Vinyl chloride	ug/L	ND	1.0	10/20/10 13:43	
1,2-Dichloroethane-d4 (S)	%	115	70-130	10/20/10 13:43	
4-Bromofluorobenzene (S)	%	92	70-130	10/20/10 13:43	
Toluene-d8 (S)	%	89	70-130	10/20/10 13:43	

QUALITY CONTROL DATA

Project: Essex/Hope Jamestown

Pace Project No.: 3035796

LABORATORY CONTROL SAMPLE: 229641

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.9	105	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.6	88	70-130	
1,1,2-Trichloroethane	ug/L	20	18.7	93	70-130	
1,1-Dichloroethane	ug/L	20	19.6	98	70-130	
1,1-Dichloroethene	ug/L	20	21.4	107	70-130	
1,2-Dichlorobenzene	ug/L	20	19.2	96	70-130	
1,2-Dichloroethane	ug/L	20	21.1	106	70-130	
1,2-Dichloropropane	ug/L	20	17.6	88	70-130	
1,3-Dichlorobenzene	ug/L	20	19.8	99	70-130	
1,4-Dichlorobenzene	ug/L	20	20.1	100	70-130	
2-Butanone (MEK)	ug/L	20	19.4	97	70-130	
2-Hexanone	ug/L	20	18.7	94	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	17.2	86	70-130	
Acetone	ug/L	20	31.4	157	70-130	L1
Benzene	ug/L	20	18.2	91	70-130	
Bromodichloromethane	ug/L	20	17.6	88	70-130	
Bromoform	ug/L	20	15.6	78	70-130	
Bromomethane	ug/L	20	37.4	187	70-130	L1
Carbon disulfide	ug/L	20	17.4	87	70-130	
Carbon tetrachloride	ug/L	20	20.1	100	70-130	
Chlorobenzene	ug/L	20	19.9	100	70-130	
Chloroethane	ug/L	20	20.9	105	70-130	
Chloroform	ug/L	20	20.7	103	70-130	
Chloromethane	ug/L	20	15.7	79	70-130	
cis-1,2-Dichloroethene	ug/L	20	19.7	98	70-130	
cis-1,3-Dichloropropene	ug/L	20	17.6	88	70-130	
Dibromochloromethane	ug/L	20	17.0	85	70-130	
Ethylbenzene	ug/L	20	20.6	103	70-130	
m&p-Xylene	ug/L	40	43.1	108	70-130	
Methylene Chloride	ug/L	20	28.2	141	70-130	L1
o-Xylene	ug/L	20	20.3	102	70-130	
Styrene	ug/L	20	21.3	107	70-130	
Tetrachloroethene	ug/L	20	20.3	102	70-130	
Toluene	ug/L	20	19.7	99	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.9	115	70-130	
trans-1,3-Dichloropropene	ug/L	20	18.6	93	70-130	
Trichloroethene	ug/L	20	19.5	98	70-130	
Trichlorofluoromethane	ug/L	20	22.5	112	70-130	
Vinyl chloride	ug/L	20	20.6	103	70-130	
1,2-Dichloroethane-d4 (S)	%			109	70-130	
4-Bromofluorobenzene (S)	%			90	70-130	
Toluene-d8 (S)	%			92	70-130	

QUALIFIERS

Project: Essex/Hope Jamestown
Pace Project No.: 3035796

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.

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: MSV/7507

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B- Analyte detected in method blank but was not detected in the associated samples.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.

S6 Surrogate recovery outside control limits. Data accepted based on valid recovery of applicable surrogates (no analytes associated with this surrogate)

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex/Hope Jamestown

Pace Project No.: 3035796

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3035796001	PRE-CARB	EPA 8260	MSV/7507		
3035796002	PRIMARY-EFF	EPA 8260	MSV/7507		
3035796003	POST-CARB	EPA 8260	MSV/7507		
3035796007	TB-01	EPA 8260	MSV/7507		

CHAIN-OF-CUSTODY / Analytical Request Document

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



Section A

Required Client Information:

Company: **URS CORP**
 Address: **FOSTER PLAZA 4, STE 300**
501 HAWTHORNE DR.
PITTSBURGH, PA 15220
 Email To: **URS**
 Phone: **412-503-4700**
 Requested Due Date/TIME: **4/23/03 4:30 PM**

Section B

Required Project Information:

Report To: **MARK DOWIAK**
 Copy To: **VIALE SIBETO**
 Purchase Order No.: **41568652**
 Project Name: **ESSEX/HUDE JAW-ESTATION**
 Project Number: **41568652-10000**

Section C

Invoice Information:

Attention: **MARK DOWIAK**
 Company Name: **VIALE SIBETO**
 Address: **ESSEX/HUDE JAW-ESTATION**
 Pace Quote Reference: **41568652**
 Pace Project Manager: **ESSEX/HUDE JAW-ESTATION**
 Pace Profile #: **41568652-10000**

Page: **1** of **1**
 1434602
 REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER
 Site Location: **NY**
 STATE: **NY**

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		DATE		TIME		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↑	Y/N ↓	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
			COMPOSITE START	COMPOSITE END/GRAB	DATE	TIME	DATE	TIME					Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
1	PRE-CARB	DW							WTG			2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

ADDITIONAL COMMENTS: **COMPOSITE FOUR (4)**
POST-CARB SAMPLES IN LAB
AND REPORT AS POST-CARB
COMPOSITE

RELINQUISHED BY / AFFILIATION: **Valerie Sibeto** DATE: **10/18/10** TIME: **11:30**

ACCEPTED BY / AFFILIATION: **Valerie Sibeto** DATE: **10/18/10** TIME: **11:30**

SAMPLE CONDITIONS: **Y** **N** **Y**

SAMPLER NAME AND SIGNATURE: **VALERIE SIBETO**

PRINT Name of SAMPLER: **VALERIE SIBETO**

SIGNATURE of SAMPLER: **Valerie Sibeto**

DATE Signed (MM/DD/YYYY): **10/18/10**

Temp in °C: **58**

Received on: **Y**

Sealed Cooler: **N**

Custody: **Y**

Samples Intact: **Y**

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS

Project # 3035746

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

Tracking #: 9622 5538 149

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

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

Thermometer Used 3 5

Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 5-8

Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: EEH 10/10/0

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: <u>AG</u>		
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: <u>VOA, coliform, TOC, O&G, WI-DRO (water)</u>	☒ Yes ☐ No	Initial when completed <u>EEH</u> 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: _____

Date: 10/20/0

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)

December 14, 2010

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

RE: Project: Essex-Hope Jamestown
Pace Project No.: 3037942

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on November 30, 2010. 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,



Timothy Reed

timothy.reed@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 12

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: Essex-Hope Jamestown

Pace Project No.: 3037942

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 12

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: Essex-Hope Jamestown

Pace Project No.: 3037942

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3037942001	PRE-CARB	EPA 8260	JAS	42	PASI-PA
3037942002	PRIMARY-EFF	EPA 8260	JAS	42	PASI-PA
3037942003	POST-CARB	EPA 8260	JAS	42	PASI-PA
3037942004	TB-01	EPA 8260	JAS	42	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 12

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3037942

Sample: PRE-CARB		Lab ID: 3037942001	Collected: 11/29/10 10:35	Received: 11/30/10 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	2060	ug/L	200	20		12/03/10 14:36	67-64-1	
Benzene	9.9	ug/L	1.0	1		12/01/10 19:31	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/01/10 19:31	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/01/10 19:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/01/10 19:31	74-83-9	
2-Butanone (MEK)	16.8	ug/L	10.0	1		12/01/10 19:31	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/01/10 19:31	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/01/10 19:31	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/01/10 19:31	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/01/10 19:31	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/01/10 19:31	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/01/10 19:31	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/01/10 19:31	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/01/10 19:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/01/10 19:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/01/10 19:31	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/01/10 19:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/01/10 19:31	107-06-2	
1,1-Dichloroethene	8.5	ug/L	5.0	1		12/01/10 19:31	75-35-4	
cis-1,2-Dichloroethene	2940	ug/L	100	20		12/03/10 14:36	156-59-2	
trans-1,2-Dichloroethene	38.0	ug/L	5.0	1		12/01/10 19:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/01/10 19:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/01/10 19:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/01/10 19:31	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/01/10 19:31	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/01/10 19:31	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/01/10 19:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/01/10 19:31	108-10-1	
Styrene	ND	ug/L	5.0	1		12/01/10 19:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/01/10 19:31	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/01/10 19:31	127-18-4	
Toluene	ND	ug/L	5.0	1		12/01/10 19:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/01/10 19:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/01/10 19:31	79-00-5	
Trichloroethene	399	ug/L	5.0	1		12/01/10 19:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/01/10 19:31	75-69-4	
Vinyl chloride	276	ug/L	1.0	1		12/01/10 19:31	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/01/10 19:31	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/01/10 19:31	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130	1		12/01/10 19:31	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		12/01/10 19:31	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		12/01/10 19:31	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown

Pace Project No.: 3037942

Sample: PRIMARY-EFF		Lab ID: 3037942002		Collected: 11/29/10 10:40		Received: 11/30/10 10:30		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Acetone	47.4	ug/L	10.0	1			12/01/10 19:57	67-64-1	
Benzene	ND	ug/L	1.0	1			12/01/10 19:57	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1			12/01/10 19:57	75-27-4	
Bromoform	ND	ug/L	5.0	1			12/01/10 19:57	75-25-2	
Bromomethane	ND	ug/L	5.0	1			12/01/10 19:57	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1			12/01/10 19:57	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1			12/01/10 19:57	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1			12/01/10 19:57	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1			12/01/10 19:57	108-90-7	
Chloroethane	ND	ug/L	5.0	1			12/01/10 19:57	75-00-3	
Chloroform	ND	ug/L	5.0	1			12/01/10 19:57	67-66-3	
Chloromethane	ND	ug/L	5.0	1			12/01/10 19:57	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1			12/01/10 19:57	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1			12/01/10 19:57	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1			12/01/10 19:57	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1			12/01/10 19:57	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1			12/01/10 19:57	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1			12/01/10 19:57	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1			12/01/10 19:57	75-35-4	
cis-1,2-Dichloroethene	143	ug/L	5.0	1			12/01/10 19:57	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1			12/01/10 19:57	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1			12/01/10 19:57	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1			12/01/10 19:57	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1			12/01/10 19:57	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1			12/01/10 19:57	100-41-4	
2-Hexanone	ND	ug/L	10.0	1			12/01/10 19:57	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1			12/01/10 19:57	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1			12/01/10 19:57	108-10-1	
Styrene	ND	ug/L	5.0	1			12/01/10 19:57	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1			12/01/10 19:57	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1			12/01/10 19:57	127-18-4	
Toluene	ND	ug/L	5.0	1			12/01/10 19:57	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1			12/01/10 19:57	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1			12/01/10 19:57	79-00-5	
Trichloroethene	ND	ug/L	5.0	1			12/01/10 19:57	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1			12/01/10 19:57	75-69-4	
Vinyl chloride	4.9	ug/L	1.0	1			12/01/10 19:57	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1			12/01/10 19:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	1			12/01/10 19:57	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130	1			12/01/10 19:57	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1			12/01/10 19:57	17060-07-0	
Toluene-d8 (S)	97	%	70-130	1			12/01/10 19:57	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown

Pace Project No.: 3037942

Sample: POST-CARB		Lab ID: 3037942003	Collected: 11/29/10 10:45	Received: 11/30/10 10:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Acetone	146	ug/L	10.0	1		12/01/10 20:23	67-64-1	
Benzene	ND	ug/L	1.0	1		12/01/10 20:23	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/01/10 20:23	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/01/10 20:23	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/01/10 20:23	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/01/10 20:23	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/01/10 20:23	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/01/10 20:23	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/01/10 20:23	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/01/10 20:23	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/01/10 20:23	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/01/10 20:23	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/01/10 20:23	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/01/10 20:23	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/01/10 20:23	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/01/10 20:23	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/01/10 20:23	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/01/10 20:23	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/01/10 20:23	75-35-4	
cis-1,2-Dichloroethene	29.5	ug/L	5.0	1		12/01/10 20:23	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/01/10 20:23	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/01/10 20:23	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/01/10 20:23	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/01/10 20:23	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/01/10 20:23	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/01/10 20:23	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/01/10 20:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/01/10 20:23	108-10-1	
Styrene	ND	ug/L	5.0	1		12/01/10 20:23	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/01/10 20:23	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/01/10 20:23	127-18-4	
Toluene	ND	ug/L	5.0	1		12/01/10 20:23	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/01/10 20:23	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/01/10 20:23	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/01/10 20:23	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/01/10 20:23	75-69-4	
Vinyl chloride	15.1	ug/L	1.0	1		12/01/10 20:23	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/01/10 20:23	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/01/10 20:23	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		12/01/10 20:23	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		12/01/10 20:23	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		12/01/10 20:23	2037-26-5	

ANALYTICAL RESULTS

Project: Essex-Hope Jamestown
Pace Project No.: 3037942

Sample: TB-01		Lab ID: 3037942004	Collected: 11/29/10 00:01	Received: 11/30/10 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		12/01/10 21:15	67-64-1	
Benzene	ND ug/L		1.0	1		12/01/10 21:15	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		12/01/10 21:15	75-27-4	
Bromoform	ND ug/L		5.0	1		12/01/10 21:15	75-25-2	
Bromomethane	ND ug/L		5.0	1		12/01/10 21:15	74-83-9	
2-Butanone (MEK)	ND ug/L		10.0	1		12/01/10 21:15	78-93-3	
Carbon disulfide	ND ug/L		5.0	1		12/01/10 21:15	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		12/01/10 21:15	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		12/01/10 21:15	108-90-7	
Chloroethane	ND ug/L		5.0	1		12/01/10 21:15	75-00-3	
Chloroform	ND ug/L		5.0	1		12/01/10 21:15	67-66-3	
Chloromethane	ND ug/L		5.0	1		12/01/10 21:15	74-87-3	
Dibromochloromethane	ND ug/L		5.0	1		12/01/10 21:15	124-48-1	
1,2-Dichlorobenzene	ND ug/L		5.0	1		12/01/10 21:15	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		12/01/10 21:15	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		12/01/10 21:15	106-46-7	
1,1-Dichloroethane	ND ug/L		5.0	1		12/01/10 21:15	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		12/01/10 21:15	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		12/01/10 21:15	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		12/01/10 21:15	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		12/01/10 21:15	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		12/01/10 21:15	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		12/01/10 21:15	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		12/01/10 21:15	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		12/01/10 21:15	100-41-4	
2-Hexanone	ND ug/L		10.0	1		12/01/10 21:15	591-78-6	
Methylene Chloride	ND ug/L		5.0	1		12/01/10 21:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		10.0	1		12/01/10 21:15	108-10-1	
Styrene	ND ug/L		5.0	1		12/01/10 21:15	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		12/01/10 21:15	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		12/01/10 21:15	127-18-4	
Toluene	ND ug/L		5.0	1		12/01/10 21:15	108-88-3	
1,1,1-Trichloroethane	ND ug/L		5.0	1		12/01/10 21:15	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		12/01/10 21:15	79-00-5	
Trichloroethene	ND ug/L		5.0	1		12/01/10 21:15	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		12/01/10 21:15	75-69-4	
Vinyl chloride	ND ug/L		1.0	1		12/01/10 21:15	75-01-4	
m&p-Xylene	ND ug/L		5.0	1		12/01/10 21:15	179601-23-1	
o-Xylene	ND ug/L		5.0	1		12/01/10 21:15	95-47-6	
4-Bromofluorobenzene (S)	98 %		70-130	1		12/01/10 21:15	460-00-4	
1,2-Dichloroethane-d4 (S)	100 %		70-130	1		12/01/10 21:15	17060-07-0	
Toluene-d8 (S)	95 %		70-130	1		12/01/10 21:15	2037-26-5	

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown
Pace Project No.: 3037942

QC Batch: MSV/7903 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3037942001, 3037942002, 3037942003, 3037942004

METHOD BLANK: 244393 Matrix: Water
Associated Lab Samples: 3037942001, 3037942002, 3037942003, 3037942004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	12/01/10 13:51	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/01/10 13:51	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/01/10 13:51	
1,1-Dichloroethane	ug/L	ND	5.0	12/01/10 13:51	
1,1-Dichloroethene	ug/L	ND	5.0	12/01/10 13:51	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/01/10 13:51	
1,2-Dichloroethane	ug/L	ND	5.0	12/01/10 13:51	
1,2-Dichloropropane	ug/L	ND	5.0	12/01/10 13:51	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/01/10 13:51	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/01/10 13:51	
2-Butanone (MEK)	ug/L	ND	10.0	12/01/10 13:51	
2-Hexanone	ug/L	ND	10.0	12/01/10 13:51	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/01/10 13:51	
Acetone	ug/L	ND	10.0	12/01/10 13:51	
Benzene	ug/L	ND	1.0	12/01/10 13:51	
Bromodichloromethane	ug/L	ND	5.0	12/01/10 13:51	
Bromoform	ug/L	ND	5.0	12/01/10 13:51	
Bromomethane	ug/L	ND	5.0	12/01/10 13:51	
Carbon disulfide	ug/L	ND	5.0	12/01/10 13:51	
Carbon tetrachloride	ug/L	ND	5.0	12/01/10 13:51	
Chlorobenzene	ug/L	ND	5.0	12/01/10 13:51	
Chloroethane	ug/L	ND	5.0	12/01/10 13:51	
Chloroform	ug/L	ND	5.0	12/01/10 13:51	
Chloromethane	ug/L	ND	5.0	12/01/10 13:51	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/01/10 13:51	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/01/10 13:51	
Dibromochloromethane	ug/L	ND	5.0	12/01/10 13:51	
Ethylbenzene	ug/L	ND	5.0	12/01/10 13:51	
m&p-Xylene	ug/L	ND	5.0	12/01/10 13:51	
Methylene Chloride	ug/L	ND	5.0	12/01/10 13:51	
o-Xylene	ug/L	ND	5.0	12/01/10 13:51	
Styrene	ug/L	ND	5.0	12/01/10 13:51	
Tetrachloroethene	ug/L	ND	5.0	12/01/10 13:51	
Toluene	ug/L	ND	5.0	12/01/10 13:51	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/01/10 13:51	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/01/10 13:51	
Trichloroethene	ug/L	ND	5.0	12/01/10 13:51	
Trichlorofluoromethane	ug/L	ND	5.0	12/01/10 13:51	
Vinyl chloride	ug/L	ND	1.0	12/01/10 13:51	
1,2-Dichloroethane-d4 (S)	%	104	70-130	12/01/10 13:51	
4-Bromofluorobenzene (S)	%	102	70-130	12/01/10 13:51	
Toluene-d8 (S)	%	97	70-130	12/01/10 13:51	

Date: 12/14/2010 03:41 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 12

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: Essex-Hope Jamestown

Pace Project No.: 3037942

LABORATORY CONTROL SAMPLE: 244394

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.6	88	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	70-130	
1,1,2-Trichloroethane	ug/L	20	18.6	93	70-130	
1,1-Dichloroethane	ug/L	20	16.8	84	70-130	
1,1-Dichloroethene	ug/L	20	13.6	68	70-130	L2
1,2-Dichlorobenzene	ug/L	20	18.9	95	70-130	
1,2-Dichloroethane	ug/L	20	17.6	88	70-130	
1,2-Dichloropropane	ug/L	20	17.3	86	70-130	
1,3-Dichlorobenzene	ug/L	20	19.1	96	70-130	
1,4-Dichlorobenzene	ug/L	20	19.4	97	70-130	
2-Butanone (MEK)	ug/L	20	21.2	106	70-130	
2-Hexanone	ug/L	20	22.9	115	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.9	99	70-130	
Acetone	ug/L	20	22.6	113	70-130	
Benzene	ug/L	20	17.3	87	70-130	
Bromodichloromethane	ug/L	20	19.6	98	70-130	
Bromoform	ug/L	20	19.8	99	70-130	
Bromomethane	ug/L	20	38.7	194	70-130	L1
Carbon disulfide	ug/L	20	19.0	95	70-130	
Carbon tetrachloride	ug/L	20	18.4	92	70-130	
Chlorobenzene	ug/L	20	19.0	95	70-130	
Chloroethane	ug/L	20	19.4	97	70-130	
Chloroform	ug/L	20	18.1	91	70-130	
Chloromethane	ug/L	20	19.7	98	70-130	
cis-1,2-Dichloroethene	ug/L	20	17.5	88	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.3	92	70-130	
Dibromochloromethane	ug/L	20	20.3	101	70-130	
Ethylbenzene	ug/L	20	19.1	96	70-130	
m&p-Xylene	ug/L	40	39.3	98	70-130	
Methylene Chloride	ug/L	20	16.2	81	70-130	
o-Xylene	ug/L	20	19.0	95	70-130	
Styrene	ug/L	20	18.8	94	70-130	
Tetrachloroethene	ug/L	20	18.7	93	70-130	
Toluene	ug/L	20	18.2	91	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.3	82	70-130	
trans-1,3-Dichloropropene	ug/L	20	19.3	96	70-130	
Trichloroethene	ug/L	20	17.8	89	70-130	
Trichlorofluoromethane	ug/L	20	21.0	105	70-130	
Vinyl chloride	ug/L	20	18.7	93	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			98	70-130	

QUALITY CONTROL DATA

Project: Essex-Hope Jamestown

Pace Project No.: 3037942

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 245194 245195											
Parameter	Units	3037604015 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	22.0	21.9	110	109	70-130	.7	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.4	18.3	92	91	70-130	1	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.0	18.8	95	94	70-130	1	
1,1-Dichloroethane	ug/L	ND	20	20	20.2	20.4	101	102	70-130	1	
1,1-Dichloroethene	ug/L	ND	20	20	19.7	20.0	98	100	70-130	2	
1,2-Dichlorobenzene	ug/L				20.1	20.3				1	
1,2-Dichloroethane	ug/L	ND	20	20	19.1	19.4	96	97	70-130	2	
1,2-Dichloropropane	ug/L	ND	20	20	19.8	19.5	99	98	70-130	1	
1,3-Dichlorobenzene	ug/L				20.4	20.6				.9	
1,4-Dichlorobenzene	ug/L				20.8	20.5				1	
2-Butanone (MEK)	ug/L	ND	20	20	21.6	20.8	108	104	70-130	4	
2-Hexanone	ug/L	ND	20	20	22.8	21.4	114	107	70-130	6	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	19.7	18.5	98	92	70-130	6	
Acetone	ug/L	ND	20	20	28.0	26.8	92	86	70-130	4	
Benzene	ug/L	ND	20	20	20.2	20.0	101	100	70-130	1	
Bromodichloromethane	ug/L	ND	20	20	20.5	19.9	103	100	70-130	3	
Bromoform	ug/L	ND	20	20	19.1	18.7	95	94	70-130	2	
Bromomethane	ug/L	ND	20	20	30.0	30.4	150	152	70-130	1	M0
Carbon disulfide	ug/L	ND	20	20	17.7	16.9	88	84	70-130	5	
Carbon tetrachloride	ug/L	ND	20	20	21.6	21.5	108	108	70-130	.4	
Chlorobenzene	ug/L	ND	20	20	21.0	20.6	105	103	70-130	2	
Chloroethane	ug/L	ND	20	20	16.5	16.0	83	80	70-130	3	
Chloroform	ug/L	ND	20	20	20.2	20.5	101	103	70-130	1	
Chloromethane	ug/L	ND	20	20	12.5	11.3	63	57	70-130	10	M0
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.3	20.5	101	103	70-130	1	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.0	18.5	95	92	70-130	3	
Dibromochloromethane	ug/L	ND	20	20	19.9	19.7	99	99	70-130	.8	
Ethylbenzene	ug/L	ND	20	20	21.0	20.7	105	103	70-130	2	
m&p-Xylene	ug/L	ND	40	40	43.1	43.0	108	107	70-130	.4	
Methylene Chloride	ug/L	ND	20	20	19.8	20.0	99	100	70-130	1	
o-Xylene	ug/L	ND	20	20	21.3	20.6	106	103	70-130	3	
Styrene	ug/L	ND	20	20	20.5	20.1	102	100	70-130	2	
Tetrachloroethene	ug/L	ND	20	20	21.9	21.4	110	107	70-130	2	
Toluene	ug/L	ND	20	20	21.0	20.2	105	101	70-130	4	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.2	20.9	101	104	70-130	3	
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.3	18.6	96	93	70-130	3	
Trichloroethene	ug/L	ND	20	20	21.0	20.9	105	105	70-130	.4	
Trichlorofluoromethane	ug/L				21.2	20.6				3	
Vinyl chloride	ug/L	ND	20	20	13.8	13.7	69	69	70-130	.5	M0
1,2-Dichloroethane-d4 (S)	%						105	104	70-130		
4-Bromofluorobenzene (S)	%						107	103	70-130		
Toluene-d8 (S)	%						101	97	70-130		

QUALIFIERS

Project: Essex-Hope Jamestown
Pace Project No.: 3037942

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.

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

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 and/or matrix spike duplicate recovery was outside laboratory control limits. |

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope Jamestown

Pace Project No.: 3037942

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3037942001	PRE-CARB	EPA 8260	MSV/7903		
3037942002	PRIMARY-EFF	EPA 8260	MSV/7903		
3037942003	POST-CARB	EPA 8260	MSV/7903		
3037942004	TB-01	EPA 8260	MSV/7903		

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	URS CORP.	Report To:	MARK DOWIAK	Attention:	
Address:	FOSTER PURA 4, STE 300 501 HOLADAY DR PITTSBURGH, PA 15220	Copy To:	VALERIE SIBETO	Company Name:	
Email To:				Address:	
		Purchase Order No.:	41568652	Pace Quote Reference:	
		Project Name:	ESSEX/HUPE JAMESTOWN	Pace Project Manager:	
		Project Number:	41568652, 10000	Pace Profile #:	
Requested Due Date/TAT:	STANDARD				
412-503-4701		412-503-4701		412-503-4701	
1440709		1440709		1440709	
REGULATORY AGENCY		REGULATORY AGENCY		REGULATORY AGENCY	
NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐		NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐		NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐	
UST ☐ RCRA ☐ OTHER ☐		UST ☐ RCRA ☐ OTHER ☐		UST ☐ RCRA ☐ OTHER ☐	
Site Location		Site Location		Site Location	
STATE: NY		STATE: NY		STATE: NY	

[illegible]

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 FONE (4)	Valerie S. Jones	11/29/10	1245	Rebecca K.	11/29/10	1245							
POST-CARB SAMPLES IN LAB				Lucy J. Jones	11/29/10	1030			Y				
AND REPORT AS					11/30				N				
POST-CARB COMPOS / RE													

ORIGINAL

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	VALERIE S. JONES
SIGNATURE of SAMPLER:	Valerie S. Jones
DATE Signed (MM/DD/YY):	11/29/10



Sample Condition Upon Receipt

LEL

Client Name: URS

Project # 3037942

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

Tracking #: 867255381462

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 (5)

Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begun

Cooler Temperature 3.2

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: LEL 11/30/10

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: <u>AN</u>		
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: <u>VOA</u> , poliform, TOC, O&G, WI-DRO (water)	☒ Yes ☐ No	Initial when completed <u>LEL</u> 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: _____

Date: 12/1/10

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)

December 27, 2010

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

RE: Project: Essex/Hope Jamestown
Pace Project No.: 3038841

Dear Mr. Dowiak:

Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 2010. 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,



Timothy Reed

timothy.reed@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 12

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



CERTIFICATIONS

Project: Essex/Hope Jamestown

Pace Project No.: 3038841

Pennsylvania Certification IDs

1638 Roseytown Road Suites 2,3&4, Greensburg, PA 15601

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California/NELAC Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH 0694

Delaware Certification

Florida/NELAC Certification #: E87683

Guam/PADEP Certification

Hawaii/PADEP Certification

Idaho Certification

Illinois/PADEP Certification

Indiana/PADEP Certification

Iowa Certification #: 391

Kansas/NELAC Certification #: E-10358

Kentucky Certification #: 90133

Louisiana/NELAC Certification #: LA080002

Louisiana/NELAC Certification #: 4086

Maine Certification #: PA0091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nevada Certification

New Hampshire/NELAC Certification #: 2976

New Jersey/NELAC Certification #: PA 051

New Mexico Certification

New York/NELAC Certification #: 10888

North Carolina Certification #: 42706

Oregon/NELAC Certification #: PA200002

Pennsylvania/NELAC Certification #: 65-00282

Puerto Rico Certification #: PA01457

South Dakota Certification

Tennessee Certification #: TN2867

Texas/NELAC Certification #: T104704188-09 TX

Utah/NELAC Certification #: ANTE

Virgin Island/PADEP Certification

Virginia Certification #: 00112

Washington Certification #: C1941

West Virginia Certification #: 143

Wisconsin/PADEP Certification

Wyoming Certification #: 8TMS-Q

REPORT OF LABORATORY ANALYSIS

Page 2 of 12

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



SAMPLE ANALYTE COUNT

Project: Essex/Hope Jamestown

Pace Project No.: 3038841

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3038841001	PRE-CARB	EPA 8260	EAC	42	PASI-PA
3038841002	PRIMARY-EFF	EPA 8260	EAC	42	PASI-PA
3038841003	POST-CARB	EPA 8260	EAC	42	PASI-PA
3038841007	TB-01	EPA 8260	EAC	42	PASI-PA

REPORT OF LABORATORY ANALYSIS

Page 3 of 12

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown

Pace Project No.: 3038841

Sample: PRE-CARB		Lab ID: 3038841001	Collected: 12/16/10 10:40	Received: 12/17/10 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		12/22/10 17:40	67-64-1	
Benzene	3.8	ug/L	1.0	1		12/22/10 17:40	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/22/10 17:40	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/22/10 17:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/22/10 17:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/22/10 17:40	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/22/10 17:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/22/10 17:40	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/22/10 17:40	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/22/10 17:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/22/10 17:40	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/22/10 17:40	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/22/10 17:40	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/22/10 17:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/22/10 17:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/22/10 17:40	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/22/10 17:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/22/10 17:40	107-06-2	
1,1-Dichloroethene	11.4	ug/L	5.0	1		12/22/10 17:40	75-35-4	
cis-1,2-Dichloroethene	3000	ug/L	200	40		12/22/10 18:04	156-59-2	
trans-1,2-Dichloroethene	27.5	ug/L	5.0	1		12/22/10 17:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/22/10 17:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/22/10 17:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/22/10 17:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/22/10 17:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/22/10 17:40	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/22/10 17:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/22/10 17:40	108-10-1	
Styrene	ND	ug/L	5.0	1		12/22/10 17:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/22/10 17:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/22/10 17:40	127-18-4	
Toluene	ND	ug/L	5.0	1		12/22/10 17:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/22/10 17:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/22/10 17:40	79-00-5	
Trichloroethene	1160	ug/L	200	40		12/22/10 18:04	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/22/10 17:40	75-69-4	
Vinyl chloride	430	ug/L	40.0	40		12/22/10 18:04	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/22/10 17:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/22/10 17:40	95-47-6	
4-Bromofluorobenzene (S)	103	%	70-130	1		12/22/10 17:40	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		12/22/10 17:40	17060-07-0	
Toluene-d8 (S)	88	%	70-130	1		12/22/10 17:40	2037-26-5	

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown

Pace Project No.: 3038841

Sample: PRIMARY-EFF		Lab ID: 3038841002		Collected: 12/16/10 10:50		Received: 12/17/10 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			12/22/10 18:28	67-64-1	
Benzene	ND	ug/L	1.0	1			12/22/10 18:28	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1			12/22/10 18:28	75-27-4	
Bromoform	ND	ug/L	5.0	1			12/22/10 18:28	75-25-2	
Bromomethane	ND	ug/L	5.0	1			12/22/10 18:28	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1			12/22/10 18:28	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1			12/22/10 18:28	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1			12/22/10 18:28	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1			12/22/10 18:28	108-90-7	
Chloroethane	ND	ug/L	5.0	1			12/22/10 18:28	75-00-3	
Chloroform	ND	ug/L	5.0	1			12/22/10 18:28	67-66-3	
Chloromethane	ND	ug/L	5.0	1			12/22/10 18:28	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1			12/22/10 18:28	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1			12/22/10 18:28	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1			12/22/10 18:28	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1			12/22/10 18:28	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1			12/22/10 18:28	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1			12/22/10 18:28	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1			12/22/10 18:28	75-35-4	
cis-1,2-Dichloroethene	85.0	ug/L	5.0	1			12/22/10 18:28	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1			12/22/10 18:28	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1			12/22/10 18:28	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1			12/22/10 18:28	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1			12/22/10 18:28	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1			12/22/10 18:28	100-41-4	
2-Hexanone	ND	ug/L	10.0	1			12/22/10 18:28	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1			12/22/10 18:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1			12/22/10 18:28	108-10-1	
Styrene	ND	ug/L	5.0	1			12/22/10 18:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1			12/22/10 18:28	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1			12/22/10 18:28	127-18-4	
Toluene	ND	ug/L	5.0	1			12/22/10 18:28	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1			12/22/10 18:28	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1			12/22/10 18:28	79-00-5	
Trichloroethene	ND	ug/L	5.0	1			12/22/10 18:28	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1			12/22/10 18:28	75-69-4	
Vinyl chloride	2.1	ug/L	1.0	1			12/22/10 18:28	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1			12/22/10 18:28	179601-23-1	
o-Xylene	ND	ug/L	5.0	1			12/22/10 18:28	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1			12/22/10 18:28	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130	1			12/22/10 18:28	17060-07-0	
Toluene-d8 (S)	88	%	70-130	1			12/22/10 18:28	2037-26-5	

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown

Pace Project No.: 3038841

Sample: POST-CARB **Lab ID: 3038841003** Collected: 12/16/10 10:55 Received: 12/17/10 11:00 Matrix: Water

Comments: • This sample was composited from 4 vial prior to 8260 VOA 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		12/22/10 19:17	67-64-1	
Benzene	ND	ug/L	1.0	1		12/22/10 19:17	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/22/10 19:17	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/22/10 19:17	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/22/10 19:17	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/22/10 19:17	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/22/10 19:17	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/22/10 19:17	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/22/10 19:17	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/22/10 19:17	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/22/10 19:17	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/22/10 19:17	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/22/10 19:17	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/22/10 19:17	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/22/10 19:17	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/22/10 19:17	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/22/10 19:17	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/22/10 19:17	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/22/10 19:17	75-35-4	
cis-1,2-Dichloroethene	32.3	ug/L	5.0	1		12/22/10 19:17	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/22/10 19:17	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/22/10 19:17	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/22/10 19:17	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/22/10 19:17	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/22/10 19:17	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/22/10 19:17	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/22/10 19:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/22/10 19:17	108-10-1	
Styrene	ND	ug/L	5.0	1		12/22/10 19:17	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/22/10 19:17	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/22/10 19:17	127-18-4	
Toluene	ND	ug/L	5.0	1		12/22/10 19:17	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/22/10 19:17	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/22/10 19:17	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/22/10 19:17	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/22/10 19:17	75-69-4	
Vinyl chloride	12.7	ug/L	1.0	1		12/22/10 19:17	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/22/10 19:17	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		12/22/10 19:17	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		12/22/10 19:17	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		12/22/10 19:17	17060-07-0	
Toluene-d8 (S)	90	%	70-130	1		12/22/10 19:17	2037-26-5	

ANALYTICAL RESULTS

Project: Essex/Hope Jamestown
Pace Project No.: 3038841

Sample: TB-01		Lab ID: 3038841007		Collected: 12/16/10 00:01		Received: 12/17/10 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		12/22/10 13:49	67-64-1		
Benzene	ND	ug/L	1.0	1		12/22/10 13:49	71-43-2		
Bromodichloromethane	ND	ug/L	5.0	1		12/22/10 13:49	75-27-4		
Bromoform	ND	ug/L	5.0	1		12/22/10 13:49	75-25-2		
Bromomethane	ND	ug/L	5.0	1		12/22/10 13:49	74-83-9		
2-Butanone (MEK)	ND	ug/L	10.0	1		12/22/10 13:49	78-93-3		
Carbon disulfide	ND	ug/L	5.0	1		12/22/10 13:49	75-15-0		
Carbon tetrachloride	ND	ug/L	5.0	1		12/22/10 13:49	56-23-5		
Chlorobenzene	ND	ug/L	5.0	1		12/22/10 13:49	108-90-7		
Chloroethane	ND	ug/L	5.0	1		12/22/10 13:49	75-00-3		
Chloroform	ND	ug/L	5.0	1		12/22/10 13:49	67-66-3		
Chloromethane	ND	ug/L	5.0	1		12/22/10 13:49	74-87-3		
Dibromochloromethane	ND	ug/L	5.0	1		12/22/10 13:49	124-48-1		
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/22/10 13:49	95-50-1		
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/22/10 13:49	541-73-1		
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/22/10 13:49	106-46-7		
1,1-Dichloroethane	ND	ug/L	5.0	1		12/22/10 13:49	75-34-3		
1,2-Dichloroethane	ND	ug/L	5.0	1		12/22/10 13:49	107-06-2		
1,1-Dichloroethene	ND	ug/L	5.0	1		12/22/10 13:49	75-35-4		
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/22/10 13:49	156-59-2		
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/22/10 13:49	156-60-5		
1,2-Dichloropropane	ND	ug/L	5.0	1		12/22/10 13:49	78-87-5		
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/22/10 13:49	10061-01-5		
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/22/10 13:49	10061-02-6		
Ethylbenzene	ND	ug/L	5.0	1		12/22/10 13:49	100-41-4		
2-Hexanone	ND	ug/L	10.0	1		12/22/10 13:49	591-78-6		
Methylene Chloride	ND	ug/L	5.0	1		12/22/10 13:49	75-09-2		
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/22/10 13:49	108-10-1		
Styrene	ND	ug/L	5.0	1		12/22/10 13:49	100-42-5		
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/22/10 13:49	79-34-5		
Tetrachloroethene	ND	ug/L	5.0	1		12/22/10 13:49	127-18-4		
Toluene	ND	ug/L	5.0	1		12/22/10 13:49	108-88-3		
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/22/10 13:49	71-55-6		
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/22/10 13:49	79-00-5		
Trichloroethene	ND	ug/L	5.0	1		12/22/10 13:49	79-01-6		
Trichlorofluoromethane	ND	ug/L	5.0	1		12/22/10 13:49	75-69-4		
Vinyl chloride	ND	ug/L	1.0	1		12/22/10 13:49	75-01-4		
m&p-Xylene	ND	ug/L	5.0	1		12/22/10 13:49	179601-23-1		
o-Xylene	ND	ug/L	5.0	1		12/22/10 13:49	95-47-6		
4-Bromofluorobenzene (S)	99	%	70-130	1		12/22/10 13:49	460-00-4		
1,2-Dichloroethane-d4 (S)	96	%	70-130	1		12/22/10 13:49	17060-07-0		
Toluene-d8 (S)	88	%	70-130	1		12/22/10 13:49	2037-26-5		

QUALITY CONTROL DATA

Project: Essex/Hope Jamestown

Pace Project No.: 3038841

QC Batch: MSV/8089 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3038841001, 3038841002, 3038841003, 3038841007

METHOD BLANK: 251864 Matrix: Water

Associated Lab Samples: 3038841001, 3038841002, 3038841003, 3038841007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	12/22/10 12:59	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/22/10 12:59	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/22/10 12:59	
1,1-Dichloroethane	ug/L	ND	5.0	12/22/10 12:59	
1,1-Dichloroethene	ug/L	ND	5.0	12/22/10 12:59	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/22/10 12:59	
1,2-Dichloroethane	ug/L	ND	5.0	12/22/10 12:59	
1,2-Dichloropropane	ug/L	ND	5.0	12/22/10 12:59	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/22/10 12:59	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/22/10 12:59	
2-Butanone (MEK)	ug/L	ND	10.0	12/22/10 12:59	
2-Hexanone	ug/L	ND	10.0	12/22/10 12:59	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/22/10 12:59	
Acetone	ug/L	ND	10.0	12/22/10 12:59	
Benzene	ug/L	ND	1.0	12/22/10 12:59	
Bromodichloromethane	ug/L	ND	5.0	12/22/10 12:59	
Bromoform	ug/L	ND	5.0	12/22/10 12:59	
Bromomethane	ug/L	ND	5.0	12/22/10 12:59	
Carbon disulfide	ug/L	ND	5.0	12/22/10 12:59	
Carbon tetrachloride	ug/L	ND	5.0	12/22/10 12:59	
Chlorobenzene	ug/L	ND	5.0	12/22/10 12:59	
Chloroethane	ug/L	ND	5.0	12/22/10 12:59	
Chloroform	ug/L	ND	5.0	12/22/10 12:59	
Chloromethane	ug/L	ND	5.0	12/22/10 12:59	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/22/10 12:59	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/22/10 12:59	
Dibromochloromethane	ug/L	ND	5.0	12/22/10 12:59	
Ethylbenzene	ug/L	ND	5.0	12/22/10 12:59	
m&p-Xylene	ug/L	ND	5.0	12/22/10 12:59	
Methylene Chloride	ug/L	ND	5.0	12/22/10 12:59	
o-Xylene	ug/L	ND	5.0	12/22/10 12:59	
Styrene	ug/L	ND	5.0	12/22/10 12:59	
Tetrachloroethene	ug/L	ND	5.0	12/22/10 12:59	
Toluene	ug/L	ND	5.0	12/22/10 12:59	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/22/10 12:59	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/22/10 12:59	
Trichloroethene	ug/L	ND	5.0	12/22/10 12:59	
Trichlorofluoromethane	ug/L	ND	5.0	12/22/10 12:59	
Vinyl chloride	ug/L	ND	1.0	12/22/10 12:59	
1,2-Dichloroethane-d4 (S)	%	97	70-130	12/22/10 12:59	
4-Bromofluorobenzene (S)	%	101	70-130	12/22/10 12:59	
Toluene-d8 (S)	%	89	70-130	12/22/10 12:59	

Date: 12/27/2010 02:45 PM

REPORT OF LABORATORY ANALYSIS

Page 8 of 12

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

Project: Essex/Hope Jamestown

Pace Project No.: 3038841

LABORATORY CONTROL SAMPLE: 251865

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.5	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	17.8	89	70-130	
1,1,2-Trichloroethane	ug/L	20	18.4	92	70-130	
1,1-Dichloroethane	ug/L	20	21.4	107	70-130	
1,1-Dichloroethene	ug/L	20	19.1	95	70-130	
1,2-Dichlorobenzene	ug/L	20	17.2	86	70-130	
1,2-Dichloroethane	ug/L	20	21.4	107	70-130	
1,2-Dichloropropane	ug/L	20	17.3	87	70-130	
1,3-Dichlorobenzene	ug/L	20	17.1	85	70-130	
1,4-Dichlorobenzene	ug/L	20	17.4	87	70-130	
2-Butanone (MEK)	ug/L	20	24.2	121	70-130	
2-Hexanone	ug/L	20	22.3	111	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.1	95	70-130	
Acetone	ug/L	20	28.8	144	70-130	L0
Benzene	ug/L	20	17.4	87	70-130	
Bromodichloromethane	ug/L	20	16.8	84	70-130	
Bromoform	ug/L	20	17.8	89	70-130	
Bromomethane	ug/L	20	27.6	138	70-130	L0
Carbon disulfide	ug/L	20	21.8	109	70-130	
Carbon tetrachloride	ug/L	20	16.5	83	70-130	
Chlorobenzene	ug/L	20	17.5	88	70-130	
Chloroethane	ug/L	20	20.1	101	70-130	
Chloroform	ug/L	20	20.8	104	70-130	
Chloromethane	ug/L	20	18.9	95	70-130	
cis-1,2-Dichloroethene	ug/L	20	21.6	108	70-130	
cis-1,3-Dichloropropene	ug/L	20	18.8	94	70-130	
Dibromochloromethane	ug/L	20	18.2	91	70-130	
Ethylbenzene	ug/L	20	17.6	88	70-130	
m&p-Xylene	ug/L	40	36.5	91	70-130	
Methylene Chloride	ug/L	20	21.4	107	70-130	
o-Xylene	ug/L	20	18.2	91	70-130	
Styrene	ug/L	20	17.1	86	70-130	
Tetrachloroethene	ug/L	20	16.9	84	70-130	
Toluene	ug/L	20	17.8	89	70-130	
trans-1,2-Dichloroethene	ug/L	20	20.0	100	70-130	
trans-1,3-Dichloropropene	ug/L	20	17.7	88	70-130	
Trichloroethene	ug/L	20	16.5	82	70-130	
Trichlorofluoromethane	ug/L	20	20.4	102	70-130	
Vinyl chloride	ug/L	20	20.6	103	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			91	70-130	

QUALITY CONTROL DATA

Project: Essex/Hope Jamestown

Pace Project No.: 3038841

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 251866 251867											
Parameter	Units	3038835001 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	20.0	19.2	100	96	70-130	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	14.4	14.8	72	74	70-130	3	
1,1,2-Trichloroethane	ug/L	ND	20	20	15.7	15.8	79	79	70-130	.6	
1,1-Dichloroethane	ug/L	ND	20	20	20.3	20.1	101	101	70-130	.5	
1,1-Dichloroethene	ug/L	ND	20	20	18.5	18.4	92	92	70-130	.2	
1,2-Dichlorobenzene	ug/L	ND	20	20	15.0	15.0	75	75	70-130	.5	
1,2-Dichloroethane	ug/L	ND	20	20	19.2	18.3	96	92	70-130	4	
1,2-Dichloropropane	ug/L	ND	20	20	15.4	15.6	77	78	70-130	2	
1,3-Dichlorobenzene	ug/L	ND	20	20	15.2	14.7	76	73	70-130	4	
1,4-Dichlorobenzene	ug/L	ND	20	20	15.0	15.1	75	75	70-130	.8	
2-Butanone (MEK)	ug/L	ND	20	20	24.5	20.8	122	104	70-130	16	
2-Hexanone	ug/L	ND	20	20	21.6	18.1	108	90	70-130	18	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	18.9	16.1	94	81	70-130	16	
Acetone	ug/L	ND	20	20	26.4	22.9	132	114	70-130	14	M0
Benzene	ug/L	ND	20	20	15.8	15.8	79	79	70-130	.2	
Bromodichloromethane	ug/L	ND	20	20	13.6	14.2	68	71	70-130	4	M0
Bromoform	ug/L	ND	20	20	14.4	14.9	72	75	70-130	3	
Bromomethane	ug/L	ND	20	20	31.7	26.5	159	132	70-130	18	M0
Carbon disulfide	ug/L	ND	20	20	22.7	20.8	114	104	70-130	9	
Carbon tetrachloride	ug/L	ND	20	20	14.1	14.2	70	71	70-130	1	
Chlorobenzene	ug/L	ND	20	20	16.1	15.6	80	78	70-130	3	
Chloroethane	ug/L	ND	20	20	24.3	25.3	121	127	70-130	4	
Chloroform	ug/L	ND	20	20	19.3	19.3	96	97	70-130	.4	
Chloromethane	ug/L	ND	20	20	18.9	20.5	95	102	70-130	8	
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.0	20.4	105	102	70-130	3	
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.2	15.6	76	78	70-130	2	
Dibromochloromethane	ug/L	ND	20	20	14.4	14.7	72	73	70-130	2	
Ethylbenzene	ug/L	ND	20	20	16.8	17.0	84	85	70-130	.9	
m&p-Xylene	ug/L		40	40	35.7	34.8	89	87	70-130	3	
Methylene Chloride	ug/L	ND	20	20	19.7	19.6	99	98	70-130	.7	
o-Xylene	ug/L		20	20	17.2	16.6	86	83	70-130	4	
Styrene	ug/L	ND	20	20	15.3	15.2	77	76	70-130	.4	
Tetrachloroethene	ug/L	ND	20	20	16.4	16.0	82	80	70-130	2	
Toluene	ug/L	ND	20	20	16.5	16.3	83	82	70-130	1	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.0	19.3	100	97	70-130	3	
trans-1,3-Dichloropropene	ug/L	ND	20	20	14.1	14.3	70	71	70-130	1	
Trichloroethene	ug/L	ND	20	20	16.0	15.6	80	78	70-130	3	
Trichlorofluoromethane	ug/L	ND	20	20	22.8	23.7	114	118	70-130	4	
Vinyl chloride	ug/L	ND	20	20	22.4	23.5	112	118	70-130	5	
1,2-Dichloroethane-d4 (S)	%						97	93	70-130		
4-Bromofluorobenzene (S)	%						102	101	70-130		
Toluene-d8 (S)	%						87	89	70-130		

QUALIFIERS

Project: Essex/Hope Jamestown
Pace Project No.: 3038841

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.

SG - Silica Gel - Clean-Up

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

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

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.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex/Hope Jamestown

Pace Project No.: 3038841

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3038841001	PRE-CARB	EPA 8260	MSV/8089		
3038841002	PRIMARY-EFF	EPA 8260	MSV/8089		
3038841003	POST-CARB	EPA 8260	MSV/8089		
3038841007	TB-01	EPA 8260	MSV/8089		

Required Client Information:		Required Project Information:		Invoice Information:	
Company:	URS Corp.	Report To:	MARK DOWIAK	Attention:	
Address:	394 HOLROYD PL STE 200 FOSTER 4	Copy To:	VALERIE STIBETZ	Company Name:	
	PITTSBURGH PA 15220			Address:	
Email To:		Purchase Order No.:	415706052	Pace Quote Reference:	
Phone:	412-503-4701	Project Name:	ESSEX/HOPE JAMESTOWN	Pace Project Manager:	
Requested Due Date/RAT:	STANDARD	Project Number:	415706052-10000	Pace Profile #:	
				REGULATORY AGENCY	
				☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER	
				Site Location	NY
				STATE:	
				1440774	

[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
COMPOSITE FINGER	Talens / LMS	12-11-10	~1300	Pro SA. LMS	12-16-10	~1300	
POST-CARB SAMPLES IN LAB				W. A. G.	12-17-10	1100	Y N Y
AND REPORT AS POST-OAK							
COMPOSITE							

SAMPLER NAME AND SIGNATURE	PRINT Name of SAMPLER: VALERIE SIBETO	DATE Signed (MM/DD/YY): 12.16.10	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	SIGNATURE of SAMPLER: [Signature]					

EEH



Sample Condition Upon Receipt

Client Name: URS Project # 30368411

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other

Tracking #: 867255381473

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 (5)

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: <u>EEH 12-17-10</u>

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: <u>70</u>		
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: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water)	☒ Yes ☐ No	Initial when completed <u>EEH</u> 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: [Signature]

Date: 12/17/10

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)