



July 19, 2010

Mr. Randall Peterson, P.E.
Engineering & Operations Manager
Division of Wastewater/Solid Waste
Jamestown Board of Public Utilities
P.O. Box 700
Jamestown, NY 14702-0700

**Subject: Essex/Hope Site
Semi-Annual Self Monitoring Report
January through June 2010
BPU Permit No. 26
URS Project No. 41568652**

Dear Mr. Peterson:

This submittal represents the January through June 2010 monitoring report in accordance with the City of Jamestown Board of Public Utilities Industrial Wastewater Discharge Permit Number 26 for the Essex Specialty Products, Inc facility referenced above. For reporting purposes, Essex Specialty Products, Inc., is classified as a Significant Industrial User subject to Categorical Pretreatment Standards. As such, this report has been developed in accordance with the requirements of 40 CFR 403.12(e).

Specific requirements included in this report as shown on Table 1 are as follows:

- Concentrations of Total Toxic Organics (TTOs) in discharge to POTW as measured monthly. Note: The Baseline Monitoring conducted for the discharge identified volatile organic compounds (VOCs) as approximately 98% of the influent TTO component. Non-volatile components historically were not a major component of chemical usage at the site. Based on these conditions, the permit requires sampling of VOCs to measure TTO concentration.
- pH of discharge to POTW as measured monthly.
- Flow rate of discharge to POTW as measured monthly.
- Estimated daily average and maximum flow rates.

This Semi-Annual Report contains system influent and effluent data for January through June 2010. No noncompliance events occurred during this reporting period. The system carbon was changed out on March 23, 2010. Table 1 summarizes the monthly discharge rates, and the total VOCs and constituents detected in the discharge to the POTW for each month. Discharge flow rates for the reporting period ranged from 99,246 to 186,500 gallons per month over the reporting period. The daily average flow rates shown on Table 1 were estimated based upon the total volume of water discharged per month. Daily maximum flow rates were estimated to be 20 percent greater than daily averages. The supporting Laboratory Certificates of Analysis for the reported concentrations of VOCs are also attached.

We trust that this submittal satisfies our reporting obligation pursuant to 40 CFR 403.12. If you have any questions or require additional information, please contact me at (412) 503-4672.

Sincerely,
URS

Mark Dowiak, P.E.
Project Manager

Attachment

cc: Tim King (Dow)
Maurice Moore (NYSDEC)
Valerie Sibeto (URS)

Table 1
January - June 2010
Post Carbon (Effluent) Monitoring Data
Essex/Hope Site
Jamestown, NY

Reporting Requirements for Pre-Treated Discharge (System Effluent to POTW)	Industrial Wastewater Discharge Permit #26 Limits	January	February	March	April	May	June
POTW Discharge Analytical Data							
Total VOCs (µg/L)	2,130 µg/L (TTO)	287	846	42	28	114	1,408
Detected Compounds	Report	cis-1,2-DCE, TCE, Vinyl Chloride	cis-1,2-DCE, TCE, Vinyl Chloride	cis-1,2-DCE, Vinyl Chloride	cis-1,2-DCE, Vinyl Chloride	Acetone, cis-1,2-DCE, Vinyl Chloride	Acetone, cis-1,2-DCE, Vinyl Chloride
pH (Standard Units)	5.5 to 10	7.70	7.50	7.10	7.40	7.70	7.50
		7.70	7.50	7.10	7.40	7.70	7.50
		7.70	7.50	7.10	7.40	7.60	7.50
		7.70	7.50	7.10	7.40	7.60	7.50
POTW Discharge Flow Data							
Monthly Total Flow (gallons)	Report	186,500	156,064	99,246	147,379	167,534	147,596
Average Daily Flow (gallons)	Report	6,016	5,574	3,201	4,913	5,404	4,920
Maximum Daily Flow (gallons)	Report	7,219	6,688	3,842	5,895	6,485	5,904

Notes:

Jamestown BPU Industrial Wastewater Discharge Permit #26 effective 11/5/07 through 11/4/12.

Maximum Daily Flow is estimated to be 20% greater than Average Daily Flow.

VOCs sample is a laboratory prepared composite of 4 grab samples collected from the pre-treatment system discharge to the POTW at 30 minute intervals.

pH measurements recorded are concurrent with the time of each grab sample. Italicized measurements are approximate.

TTO = Total Toxic Organics

System Carbon was changed out on March 23, 2010.

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

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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

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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

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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
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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

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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		

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: 20 HANCOCK DR. E. FOSTER PARK, PA 15201 Email To: URS CORP		Section B Required Project Information: Report To: MARK DWIAK Copy To: VALERIE SIBETO Purchase Order No.: 4125034701 Project Name: ESSEX/HORSE JAMES RUN Project Number: 41568453		Section C Invoice Information: Attention: Company Name: Address: Pace Quote Reference: Pace Project Manager: Pace Profile #:	
Page: 1 of 1 Invoice Number: 1355309		REGULATORY AGENCY ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER		Site Location STATE: NY	

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)	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB							
1	PRE-CARB	DW	NTG	NTG	DATE	TIME	DATE	TIME	Unpreserved	Analysis Test			001
2	PRIMARY-EFF	WT			19.10	1345			HCl				002
3	POST-CARB	WW				1350			Na ₂ S ₂ O ₃				003
4	POST-CARB	P				1400			HNO ₃				
5	POST-CARB	SL				1430			Other				
6	POST-CARB	Oil				1500							
7	POST-CARB	Wipe				1530							
8	TB-01	TS			19.10								004
9		AR											
10		OT											
11													
12													

ADDITIONAL COMMENTS Composite Four (4) POST-CARB SAMPLES IN LAB AND RESET AS POST-CARB COMPOSITE		RELINQUISHED BY / AFFILIATION Valerine Sibeto / URS	DATE 1.19.10	TIME 1545	ACCEPTED BY / AFFILIATION Valerine Sibeto	DATE 1.19.10	TIME 1715	SAMPLE CONDITIONS 172 1030 464 N 9	Temp in °C 46.4	Received on 1/19/10	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
--	--	--	-----------------	--------------	--	-----------------	--------------	---------------------------------------	--------------------	------------------------	-----------------------------------	-------------------------

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

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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

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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

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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
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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	

Date: 03/16/2010 10:56 AM

REPORT OF LABORATORY ANALYSIS

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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		



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

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

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>
Samples checked for dechlorination:	☐ Yes ☐ No ☒ N/A	Lot # of added preservative
Headspace in VOA Vials (>6mm):	☐ Yes ☒ No ☐ N/A	
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

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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

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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

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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	

Date: 04/13/2010 02:39 PM

REPORT OF LABORATORY ANALYSIS

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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:		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 Requested Due Date/TAT: 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: 1 of 1 1356564
---	--	---	--	--	--	---	--	---------------------------------------

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		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.
				DATE	TIME			DATE	TIME	COMPOSITE START	COMPOSITE END/GRAB	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃					
1	PRE-CARB	WTG	WTG	33	10	0910	33												001			
2	PRIMARY-EFF					0915													002			
3	POST-CARB					0920													003			
4	POST-CARB					0930													004			
5	POST-CARB					1020													005			
6	POST-CARB					1030													006			
7	TB-01					33MD													007			
8																						
9																						
10																						
11																						
12																						
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS								
COMPOSITE FOR (4) POST-CARB		Valerie Sibeto/URS		3.31.10		1115		3.31.10		1115		3.31.10		1115								
SAMPLES IN LAB AND																						
REPORT AS POST-CARB																						
COMPOSITE																						
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: VALERIE SIBETO SIGNATURE of SAMPLER: <i>Valerie Sibeto</i> DATE Signed (MM/DD/YY): 3.31.10																		Temp in °C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Samples Intact (Y/N)	



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

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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

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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

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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 Drinking Water DW Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Tissue TS Other OT	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	DATE		TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ Y/N ↓	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
			COMPOSITE START	COMPOSITE END/GRAB		H ₂ SO ₄	HNO ₃				HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

ADDITIONAL COMMENTS: COMPOSITE FIVE(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: URS

Project # 3026987

RES

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

Tracking #: 8672 5538 1370

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 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

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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

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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

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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

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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	

Section D Required Client Information		Matrix Codes MATRIX / CODE		Matrix Codes DW WT WW Water Waste Water Product Solid/Solid Oil Wipe Air Tissue Other		MATRIX CODE (see valid codes to left)		SAMPLE TYPE (G=GRAB C=COMP)		COLLECTED		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives		Analysis Test		Requested Analysis Filtered (Y/N)		Pace Project No / Lab I.D.	
SAMPLE ID (A-Z, 0-9 / -)		MATRIX / CODE		COMPOSITE START		COMPOSITE END/GRAB		DATE		DATE		TIME		TIME		Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₈ Methanol Other		Analysis Test		Residual Chlorine (Y/N)		Pace Project No / Lab I.D.	
1		PRE-CARB		WTG		WTG		5/27/10		0910		0910		3		X		XXXXXX		VOCs 8260		001	
2		PRIMARY-EFF		WTG		WTG		5/27/10		0915		0915		2		X		XXXXXX		VOCs 8260		002	
3		POST-CARB		WTG		WTG		5/27/10		0920		0920		2		X		XXXXXX		VOCs 8260		003	
4		POST-CARB		WTG		WTG		5/27/10		0950		0950		2		X		XXXXXX		VOCs 8260		004	
5		POST-CARB		WTG		WTG		5/27/10		1020		1020		2		X		XXXXXX		VOCs 8260		004	
6		POST-CARB		WTG		WTG		5/27/10		1050		1050		2		X		XXXXXX		VOCs 8260		004	
7		TB-OI		WTG		WTG		5/27/10		---		---		2		X		XXXXXX		VOCs 8260		004	
8																							
9																							
10																							
11																							
12																							
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS									
COMPOSITE FLOW (4)		Valerig SIBETO		5/27/10		1115		Red Exp Air		5/27/10		1115											
POST-CARB SAMPLES IN		Valerig SIBETO		5/27/10		1115		K. Sylvester Pace		5/27/10		1000		9.6									
LAB AND REPORT AS		Valerig SIBETO		5/27/10		1115		K. Sylvester Pace		5/27/10		1000		9.6									
POST-CARB COMPOSITE		Valerig SIBETO		5/27/10		1115		K. Sylvester Pace		5/27/10		1000		9.6									
ORIGINAL		SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER: VALERIG SIBETO		DATE Signed (MM/DD/YY): 5/27/10		SIGNATURE of SAMPLER: Valerig SIBETO		Temp in °C		Received on		Ice (Y/N)		Custody		Sealed Cooler (Y/N)		Samples Intact (Y/N)			



Sample Condition Upon Receipt

Client Name: URSProject # 3028535Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____Tracking #: 8072 5538 1381Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ noPacking Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____Thermometer Used (3) 5Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begunCooler 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

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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

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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

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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	

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		

***Important Note:** By signing this form you are accepting Peacock'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

LEL

Client Name: WRS

Project # 3030063

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

Tracking #: 7995 8273 0760

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 5.4

Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

Date and Initials of person examining contents: _____

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)