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February 27, 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
July through December 2009
BPU Permit No. 26
URS Project No. 41568453

Dear Mr. Peterson:

This submittal represents the July through December 2009 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.

URS Corporation
Foster Plaza 4, Suite 300
501 Holiday Drive
Pittsburgh, PA 15205
Tel: 412-503-4700
Fax: 412-503-4701
www.urscorp.com

This Semi-Annual Report contains system influent and effluent data for July through December 2009. No noncompliance events occurred during this reporting period. The system carbon was changed out on October 7, 2009. Table 1 summarizes the monthly discharge rates, and the total VOCs and constituents detected in the discharge to the POTW for each month. The system was shutdown from September 29, 2009 to November 3, 2009 and again from November 30, 2009 to December 21, 2009 for transfer pump repairs. No samples were collected in September, 2009 and October, 2009. Discharge flow rates for the reporting period ranged from 59,271 to 199,689 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 /vs

Mark Dowiak, P.E.
Project Manager

Attachment

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

Table 1

July - December 2009
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	July	August	September	October	November	December
POTW Discharge Analytical Data							
Total VOCs (µg/L)	2,130 µg/L (TTO)	87	943	NS	NS	406	292
Detected Compounds	Report	cis-1,2-DCE, Vinyl Chloride	cis-1,2-DCE, Vinyl Chloride			cis-1,2-DCE, Vinyl Chloride	cis-1,2-DCE, Vinyl Chloride
pH (Standard Units)	5.5 to 10	7.60	7.70			6.90	7.50
		7.60	7.70			6.90	7.50
		7.60	7.70			6.90	7.50
		7.60	7.70			6.90	7.50
POTW Discharge Flow Data							
Monthly Total Flow (gallons)	Report	199,492	199,689	170,180		59,271	79,904
Average Daily Flow (gallons)	Report	6,435	6,442	5,673		2,117	7,264
Maximum Daily Flow (gallons)	Report	7,722	7,730	6,807		2,540	8,717

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
NS = Not Sampled
System Carbon was changed out on May 19, 2009 and October 7, 2009.
System was off-line from September 29, 2009 to November 3, 2009 for pump repair.
System was off-line from November 30, 2009 to December 21, 2009 for pump repair.

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Greensburg, PA 15601
(724)850-5600

July 31, 2009

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

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

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

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

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

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ACCREDITED IN ACCORDANCE WITH nelac

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(724)850-5600

CERTIFICATIONS

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

Pennsylvania Certification IDs

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

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SAMPLE ANALYTE COUNT

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

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3013106001	**PRE-CARB**	EPA 8260	JAS	42	PASI-PA
3013106002	**PRIMARY-EFF**	EPA 8260	JAS	42	PASI-PA
3013106003	**POST-CARB**	EPA 8260	JAS	42	PASI-PA
3013106004	**TB-01**	EPA 8260	JAS	42	PASI-PA

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ANALYTICAL RESULTS

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

Sample: PRE-CARB **Lab ID: 3013106001** Collected: 07/22/09 08:35 Received: 07/23/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**408**	ug/L	200	20		07/29/09 18:05	67-64-1	
Benzene	**22.1**	ug/L	1.0	1		07/27/09 21:31	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/27/09 21:31	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/27/09 21:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/27/09 21:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/27/09 21:31	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/27/09 21:31	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/09 21:31	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/27/09 21:31	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/27/09 21:31	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/27/09 21:31	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/27/09 21:31	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/27/09 21:31	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 21:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 21:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 21:31	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/09 21:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/09 21:31	107-06-2	
1,1-Dichloroethene	**25.5**	ug/L	5.0	1		07/27/09 21:31	75-35-4	
cis-1,2-Dichloroethene	**4130**	ug/L	100	20		07/29/09 18:05	156-59-2	
trans-1,2-Dichloroethene	**87.5**	ug/L	5.0	1		07/27/09 21:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/27/09 21:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/27/09 21:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/27/09 21:31	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/27/09 21:31	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/27/09 21:31	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		07/27/09 21:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/27/09 21:31	108-10-1	
Styrene	ND	ug/L	5.0	1		07/27/09 21:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/27/09 21:31	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/09 21:31	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/09 21:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/09 21:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/27/09 21:31	79-00-5	
Trichloroethene	**3820**	ug/L	100	20		07/29/09 18:05	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/27/09 21:31	75-69-4	
Vinyl chloride	**516**	ug/L	20.0	20		07/29/09 18:05	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/27/09 21:31	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		07/27/09 21:31	95-47-6	
4-Bromofluorobenzene (S)	91	%	70-130	1		07/27/09 21:31	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130	1		07/27/09 21:31	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		07/27/09 21:31	2037-26-5	

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ANALYTICAL RESULTS

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

Sample: PRIMARY-EFF **Lab ID: 3013106002** Collected: 07/22/09 08:40 Received: 07/23/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**171**	ug/L	10.0	1		07/27/09 21:56	67-64-1	
Benzene	**4.5**	ug/L	1.0	1		07/27/09 21:56	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/27/09 21:56	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/27/09 21:56	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/27/09 21:56	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/27/09 21:56	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/27/09 21:56	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/09 21:56	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/27/09 21:56	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/27/09 21:56	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/27/09 21:56	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/27/09 21:56	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/27/09 21:56	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 21:56	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 21:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 21:56	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/09 21:56	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/09 21:56	107-06-2	
1,1-Dichloroethene	**7.3**	ug/L	5.0	1		07/27/09 21:56	75-35-4	
cis-1,2-Dichloroethene	**732**	ug/L	100	20		07/29/09 18:31	156-59-2	
trans-1,2-Dichloroethene	**12.1**	ug/L	5.0	1		07/27/09 21:56	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/27/09 21:56	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/27/09 21:56	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/27/09 21:56	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/27/09 21:56	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/27/09 21:56	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		07/27/09 21:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/27/09 21:56	108-10-1	
Styrene	ND	ug/L	5.0	1		07/27/09 21:56	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/27/09 21:56	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/09 21:56	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/09 21:56	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/09 21:56	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/27/09 21:56	79-00-5	
Trichloroethene	**260**	ug/L	100	20		07/29/09 18:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/27/09 21:56	75-69-4	
Vinyl chloride	**176**	ug/L	20.0	20		07/29/09 18:31	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/27/09 21:56	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		07/27/09 21:56	95-47-6	
4-Bromofluorobenzene (S)	94	%	70-130	1		07/27/09 21:56	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	70-130	1		07/27/09 21:56	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		07/27/09 21:56	2037-26-5	

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ANALYTICAL RESULTS

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

Sample: POST-CARB **Lab ID: 3013106003** Collected: 07/22/09 08:45 Received: 07/23/09 10:00 Matrix: Water

Comments: • Post Carb samples were composited prior to analysis.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**22.5**	ug/L	10.0	1		07/27/09 22:22	67-64-1	
Benzene	ND	ug/L	1.0	1		07/27/09 22:22	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/27/09 22:22	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/27/09 22:22	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/27/09 22:22	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/27/09 22:22	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/27/09 22:22	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/09 22:22	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/27/09 22:22	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/27/09 22:22	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/27/09 22:22	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/27/09 22:22	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/27/09 22:22	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 22:22	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 22:22	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 22:22	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/09 22:22	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/09 22:22	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/27/09 22:22	75-35-4	
cis-1,2-Dichloroethene	**21.2**	ug/L	5.0	1		07/27/09 22:22	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/09 22:22	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/27/09 22:22	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/27/09 22:22	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/27/09 22:22	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/27/09 22:22	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/27/09 22:22	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		07/27/09 22:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/27/09 22:22	108-10-1	
Styrene	ND	ug/L	5.0	1		07/27/09 22:22	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/27/09 22:22	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/09 22:22	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/09 22:22	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/09 22:22	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/27/09 22:22	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/27/09 22:22	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/27/09 22:22	75-69-4	
Vinyl chloride	**43.3**	ug/L	1.0	1		07/27/09 22:22	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/27/09 22:22	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		07/27/09 22:22	95-47-6	
4-Bromofluorobenzene (S)	91	%	70-130	1		07/27/09 22:22	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130	1		07/27/09 22:22	17060-07-0	
Toluene-d8 (S)	94	%	70-130	1		07/27/09 22:22	2037-26-5	

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ANALYTICAL RESULTS

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

Sample: TB-01 **Lab ID: 3013106004** Collected: 07/22/09 00:00 Received: 07/23/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		07/27/09 17:13	67-64-1	
Benzene	ND	ug/L	1.0	1		07/27/09 17:13	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/27/09 17:13	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/27/09 17:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/27/09 17:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/27/09 17:13	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/27/09 17:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/27/09 17:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/27/09 17:13	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/27/09 17:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/27/09 17:13	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/27/09 17:13	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/27/09 17:13	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 17:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 17:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/27/09 17:13	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/27/09 17:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/27/09 17:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/27/09 17:13	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/09 17:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/27/09 17:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/27/09 17:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/27/09 17:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/27/09 17:13	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/27/09 17:13	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/27/09 17:13	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		07/27/09 17:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/27/09 17:13	108-10-1	
Styrene	ND	ug/L	5.0	1		07/27/09 17:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/27/09 17:13	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/27/09 17:13	127-18-4	
Toluene	ND	ug/L	5.0	1		07/27/09 17:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/27/09 17:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/27/09 17:13	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/27/09 17:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/27/09 17:13	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		07/27/09 17:13	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/27/09 17:13	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		07/27/09 17:13	95-47-6	
4-Bromofluorobenzene (S)	93	%	70-130	1		07/27/09 17:13	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130	1		07/27/09 17:13	17060-07-0	
Toluene-d8 (S)	93	%	70-130	1		07/27/09 17:13	2037-26-5	

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

QUALITY CONTROL DATA

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

QC Batch: MSV/3181 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3013106001, 3013106002, 3013106003, 3013106004

METHOD BLANK: 78142 Matrix: Water
Associated Lab Samples: 3013106001, 3013106002, 3013106003, 3013106004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	07/27/09 15:30	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	07/27/09 15:30	
1,1,2-Trichloroethane	ug/L	ND	5.0	07/27/09 15:30	
1,1-Dichloroethane	ug/L	ND	5.0	07/27/09 15:30	
1,1-Dichloroethene	ug/L	ND	5.0	07/27/09 15:30	
1,2-Dichlorobenzene	ug/L	ND	5.0	07/27/09 15:30	
1,2-Dichloroethane	ug/L	ND	5.0	07/27/09 15:30	
1,2-Dichloropropane	ug/L	ND	5.0	07/27/09 15:30	
1,3-Dichlorobenzene	ug/L	ND	5.0	07/27/09 15:30	
1,4-Dichlorobenzene	ug/L	ND	5.0	07/27/09 15:30	
2-Butanone (MEK)	ug/L	ND	10.0	07/27/09 15:30	
2-Hexanone	ug/L	ND	10.0	07/27/09 15:30	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/27/09 15:30	
Acetone	ug/L	ND	10.0	07/27/09 15:30	
Benzene	ug/L	ND	1.0	07/27/09 15:30	
Bromodichloromethane	ug/L	ND	5.0	07/27/09 15:30	
Bromoform	ug/L	ND	5.0	07/27/09 15:30	
Bromomethane	ug/L	ND	5.0	07/27/09 15:30	
Carbon disulfide	ug/L	ND	5.0	07/27/09 15:30	
Carbon tetrachloride	ug/L	ND	5.0	07/27/09 15:30	
Chlorobenzene	ug/L	ND	5.0	07/27/09 15:30	
Chloroethane	ug/L	ND	5.0	07/27/09 15:30	
Chloroform	ug/L	ND	5.0	07/27/09 15:30	
Chloromethane	ug/L	ND	5.0	07/27/09 15:30	
cis-1,2-Dichloroethene	ug/L	ND	5.0	07/27/09 15:30	
cis-1,3-Dichloropropene	ug/L	ND	5.0	07/27/09 15:30	
Dibromochloromethane	ug/L	ND	5.0	07/27/09 15:30	
Ethylbenzene	ug/L	ND	5.0	07/27/09 15:30	
m&p-Xylene	ug/L	ND	5.0	07/27/09 15:30	
Methylene Chloride	ug/L	ND	5.0	07/27/09 15:30	
o-Xylene	ug/L	ND	5.0	07/27/09 15:30	
Styrene	ug/L	ND	5.0	07/27/09 15:30	
Tetrachloroethene	ug/L	ND	5.0	07/27/09 15:30	
Toluene	ug/L	ND	5.0	07/27/09 15:30	
trans-1,2-Dichloroethene	ug/L	ND	5.0	07/27/09 15:30	
trans-1,3-Dichloropropene	ug/L	ND	5.0	07/27/09 15:30	
Trichloroethene	ug/L	ND	5.0	07/27/09 15:30	
Trichlorofluoromethane	ug/L	ND	5.0	07/27/09 15:30	
Vinyl chloride	ug/L	ND	1.0	07/27/09 15:30	
1,2-Dichloroethane-d4 (S)	%	99	70-130	07/27/09 15:30	
4-Bromofluorobenzene (S)	%	95	70-130	07/27/09 15:30	
Toluene-d8 (S)	%	95	70-130	07/27/09 15:30	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

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

LABORATORY CONTROL SAMPLE: 78143

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.2	111	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	70-130	
1,1,2-Trichloroethane	ug/L	20	21.1	106	70-130	
1,1-Dichloroethane	ug/L	20	21.9	109	70-130	
1,1-Dichloroethene	ug/L	20	21.0	105	70-130	
1,2-Dichlorobenzene	ug/L	20	20.6	103	70-130	
1,2-Dichloroethane	ug/L	20	21.0	105	70-130	
1,2-Dichloropropane	ug/L	20	20.3	101	70-130	
1,3-Dichlorobenzene	ug/L	20	20.4	102	70-130	
1,4-Dichlorobenzene	ug/L	20	19.6	98	70-130	
2-Butanone (MEK)	ug/L	20	20.5	102	70-130	
2-Hexanone	ug/L	20	22.3	112	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	21.5	108	70-130	
Acetone	ug/L	20	23.8	119	70-130	
Benzene	ug/L	20	20.2	101	70-130	
Bromodichloromethane	ug/L	20	18.8	94	70-130	
Bromoform	ug/L	20	16.5	82	70-130	
Bromomethane	ug/L	20	29.9	149	70-130	L1
Carbon disulfide	ug/L	20	23.7	118	70-130	
Carbon tetrachloride	ug/L	20	19.2	96	70-130	
Chlorobenzene	ug/L	20	20.7	104	70-130	
Chloroethane	ug/L	20	13.0	65	70-130	L2
Chloroform	ug/L	20	23.0	115	70-130	
Chloromethane	ug/L	20	14.1	70	70-130	
cis-1,2-Dichloroethene	ug/L	20	23.6	118	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	70-130	
Dibromochloromethane	ug/L	20	18.6	93	70-130	
Ethylbenzene	ug/L	20	20.9	105	70-130	
m&p-Xylene	ug/L	40	43.1	108	70-130	
Methylene Chloride	ug/L	20	24.2	121	70-130	
o-Xylene	ug/L	20	20.6	103	70-130	
Styrene	ug/L	20	21.1	105	70-130	
Tetrachloroethene	ug/L	20	21.2	106	70-130	
Toluene	ug/L	20	20.5	102	70-130	
trans-1,2-Dichloroethene	ug/L	20	22.7	113	70-130	
trans-1,3-Dichloropropene	ug/L	20	21.6	108	70-130	
Trichloroethene	ug/L	20	19.9	100	70-130	
Trichlorofluoromethane	ug/L	20	15.0	75	70-130	
Vinyl chloride	ug/L	20	13.6	68	70-130	L2
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 78144 78145

Parameter	Units	3013106002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	17.7	18.4	88	92	70-130	4	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	17.9	16.1	89	80	70-130	10	
1,1,2-Trichloroethane	ug/L	ND	20	20	19.8	18.1	99	91	70-130	9	
1,1-Dichloroethane	ug/L	ND	20	20	20.1	19.3	100	96	70-130	4	
1,1-Dichloroethene	ug/L	7.3	20	20	24.5	25.2	86	90	70-130	3	
1,2-Dichlorobenzene	ug/L	ND	20	20	16.1	15.5	81	77	70-130	4	
1,2-Dichloroethane	ug/L	ND	20	20	21.6	19.2	108	96	70-130	12	
1,2-Dichloropropane	ug/L	ND	20	20	17.6	16.8	88	84	70-130	5	
1,3-Dichlorobenzene	ug/L	ND	20	20	14.7	14.5	73	72	70-130	1	
1,4-Dichlorobenzene	ug/L	ND	20	20	14.4	14.1	72	71	70-130	2	
2-Butanone (MEK)	ug/L	ND	20	20	22.8	20.4	114	102	70-130	11	
2-Hexanone	ug/L	ND	20	20	22.5	20.2	113	101	70-130	11	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	22.0	19.8	110	99	70-130	11	
Acetone	ug/L	171	20	20	181	214	52	218	70-130	17	M0
Benzene	ug/L	4.5	20	20	19.6	20.4	75	79	70-130	4	
Bromodichloromethane	ug/L	ND	20	20	14.9	15.2	74	76	70-130	2	
Bromoform	ug/L	ND	20	20	13.7	13.7	68	69	70-130	.3	M0
Bromomethane	ug/L	ND	20	20	18.4	20.7	92	103	70-130	11	
Carbon disulfide	ug/L	ND	20	20	21.2	17.4	106	87	70-130	20	
Carbon tetrachloride	ug/L	ND	20	20	14.3	15.4	71	77	70-130	8	
Chlorobenzene	ug/L	ND	20	20	16.5	16.4	83	82	70-130	.9	
Chloroethane	ug/L	ND	20	20	27.5	20.1	137	100	70-130	31	M0
Chloroform	ug/L	ND	20	20	21.0	19.8	105	99	70-130	6	
Chloromethane	ug/L	ND	20	20	26.9	25.4	135	127	70-130	6	M0
cis-1,3-Dichloropropene	ug/L	ND	20	20	15.4	15.2	77	76	70-130	1	
Dibromochloromethane	ug/L	ND	20	20	14.3	14.6	72	73	70-130	2	
Ethylbenzene	ug/L	ND	20	20	15.7	15.6	79	78	70-130	.8	
m&p-Xylene	ug/L	ND	40	40	32.3	32.4	81	81	70-130	.5	
Methylene Chloride	ug/L	ND	20	20	22.7	21.5	113	108	70-130	5	
o-Xylene	ug/L	ND	20	20	16.1	16.1	81	80	70-130	.3	
Styrene	ug/L	ND	20	20	16.5	15.5	82	78	70-130	6	
Tetrachloroethene	ug/L	ND	20	20	15.1	15.1	75	75	70-130	.2	
Toluene	ug/L	ND	20	20	16.2	16.1	81	80	70-130	1	
trans-1,2-Dichloroethene	ug/L	12.1	20	20	29.4	27.4	86	76	70-130	7	
trans-1,3-Dichloropropene	ug/L	ND	20	20	17.5	16.8	88	84	70-130	4	
Trichlorofluoromethane	ug/L	ND	20	20	24.7	19.3	123	96	70-130	25	
1,2-Dichloroethane-d4 (S)	%						113	108	70-130		
4-Bromofluorobenzene (S)	%						92	93	70-130		
Toluene-d8 (S)	%						94	96	70-130		

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(724)850-5600

QUALIFIERS

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

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery was outside laboratory control limits.

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Greensburg, PA 15601
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

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

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3013106001	**PRE-CARB**	EPA 8260	MSV/3181		
3013106002	**PRIMARY-EFF**	EPA 8260	MSV/3181		
3013106003	**POST-CARB**	EPA 8260	MSV/3181		
3013106004	**TB-01**	EPA 8260	MSV/3181		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1251885

Section A Required Client Information:

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

Section B Required Project Information:

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

Section C Invoice Information:

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

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

Site Location STATE: NY

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N): Y/N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	WT	G			7.22.09	0835		3				X					X		001
2	PRIMARY-EFF						0840		3				X					X		002
3	POST-CARB						0845		3				X					X		003
4	POST-CARB						0915		3				X					X		
5	POST-CARB						0945		3				X					X		
6	POST-CARB						1015		3				X					X		
7	TB-01					7.22.09	—		2				X					X		004
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COMBINE FOUR (4) POST-CARB SAMPLES IN LAB AND REPORT AS POST-CARB COMPOSITE	Valerie Sibeto/URS	7.22.09		Fed Ex 867255381287	7.22.09					
	Fed Ex			— G. Urbanczyk	7.23.09	1000	4.1	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: Valerie Sibeto DATE Signed (MM/DD/YY): 7.22.09

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 30131106

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

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

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

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

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

Cooler Temperature 4.1 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: CW 7-23

Temp should be above freezing to 6°C

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Raelyn Sylvester Date: 7/23/09

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

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September 09, 2009

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

RE: Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

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

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

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

Pennsylvania Certification IDs

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

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SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3014860001	**PRE-CARB**	EPA 8260	MAK	42	PASI-PA
3014860002	**PRIMARY-EFF**	EPA 8260	MAK	42	PASI-PA
3014860003	**POST-CARB**	EPA 8260	MAK	42	PASI-PA
3014860004	**TB-01**	EPA 8260	MAK	42	PASI-PA

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

Sample: PRE-CARB **Lab ID: 3014860001** Collected: 08/31/09 14:00 Received: 09/01/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**422**	ug/L	400	40		09/03/09 16:40	67-64-1	
Benzene	**12.4**	ug/L	1.0	1		09/03/09 16:13	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/03/09 16:13	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/03/09 16:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/03/09 16:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/03/09 16:13	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/03/09 16:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/03/09 16:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/03/09 16:13	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/03/09 16:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/03/09 16:13	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/03/09 16:13	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/03/09 16:13	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 16:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 16:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 16:13	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/03/09 16:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/03/09 16:13	107-06-2	
1,1-Dichloroethene	**21.0**	ug/L	5.0	1		09/03/09 16:13	75-35-4	
cis-1,2-Dichloroethene	**7250**	ug/L	200	40		09/03/09 16:40	156-59-2	
trans-1,2-Dichloroethene	**50.3**	ug/L	5.0	1		09/03/09 16:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/03/09 16:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/09 16:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/09 16:13	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/03/09 16:13	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/03/09 16:13	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		09/03/09 16:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/03/09 16:13	108-10-1	
Styrene	ND	ug/L	5.0	1		09/03/09 16:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/03/09 16:13	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/03/09 16:13	127-18-4	
Toluene	ND	ug/L	5.0	1		09/03/09 16:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/03/09 16:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/03/09 16:13	79-00-5	
Trichloroethene	**2300**	ug/L	200	40		09/03/09 16:40	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/03/09 16:13	75-69-4	
Vinyl chloride	**499**	ug/L	40.0	40		09/03/09 16:40	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/03/09 16:13	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		09/03/09 16:13	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		09/03/09 16:13	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130	1		09/03/09 16:13	17060-07-0	
Toluene-d8 (S)	105	%	70-130	1		09/03/09 16:13	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

Sample: PRIMARY-EFF **Lab ID: 3014860002** Collected: 08/31/09 14:05 Received: 09/01/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**430**	ug/L	400	40		09/03/09 17:35	67-64-1	
Benzene	ND	ug/L	1.0	1		09/03/09 17:08	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/03/09 17:08	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/03/09 17:08	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/03/09 17:08	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/03/09 17:08	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/03/09 17:08	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/03/09 17:08	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/03/09 17:08	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/03/09 17:08	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/03/09 17:08	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/03/09 17:08	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/03/09 17:08	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 17:08	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 17:08	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 17:08	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/03/09 17:08	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/03/09 17:08	107-06-2	
1,1-Dichloroethene	**7.6**	ug/L	5.0	1		09/03/09 17:08	75-35-4	
cis-1,2-Dichloroethene	**2720**	ug/L	200	40		09/03/09 17:35	156-59-2	
trans-1,2-Dichloroethene	**12.5**	ug/L	5.0	1		09/03/09 17:08	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/03/09 17:08	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/09 17:08	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/09 17:08	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/03/09 17:08	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/03/09 17:08	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		09/03/09 17:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/03/09 17:08	108-10-1	
Styrene	ND	ug/L	5.0	1		09/03/09 17:08	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/03/09 17:08	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/03/09 17:08	127-18-4	
Toluene	ND	ug/L	5.0	1		09/03/09 17:08	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/03/09 17:08	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/03/09 17:08	79-00-5	
Trichloroethene	**125**	ug/L	5.0	1		09/03/09 17:08	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/03/09 17:08	75-69-4	
Vinyl chloride	**595**	ug/L	40.0	40		09/03/09 17:35	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/03/09 17:08	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		09/03/09 17:08	95-47-6	
4-Bromofluorobenzene (S)	104	%	70-130	1		09/03/09 17:08	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		09/03/09 17:08	17060-07-0	
Toluene-d8 (S)	103	%	70-130	1		09/03/09 17:08	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

Sample: POST-CARB **Lab ID: 3014860003** Collected: 08/31/09 00:00 Received: 09/01/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**350**	ug/L	100	10		09/03/09 18:31	67-64-1	
Benzene	ND	ug/L	1.0	1		09/03/09 18:03	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/03/09 18:03	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/03/09 18:03	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/03/09 18:03	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/03/09 18:03	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/03/09 18:03	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/03/09 18:03	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/03/09 18:03	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/03/09 18:03	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/03/09 18:03	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/03/09 18:03	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/03/09 18:03	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 18:03	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 18:03	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 18:03	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/03/09 18:03	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/03/09 18:03	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/03/09 18:03	75-35-4	
cis-1,2-Dichloroethene	**26.7**	ug/L	5.0	1		09/03/09 18:03	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/03/09 18:03	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/03/09 18:03	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/09 18:03	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/09 18:03	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/03/09 18:03	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/03/09 18:03	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		09/03/09 18:03	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/03/09 18:03	108-10-1	
Styrene	ND	ug/L	5.0	1		09/03/09 18:03	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/03/09 18:03	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/03/09 18:03	127-18-4	
Toluene	ND	ug/L	5.0	1		09/03/09 18:03	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/03/09 18:03	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/03/09 18:03	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/03/09 18:03	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/03/09 18:03	75-69-4	
Vinyl chloride	**566**	ug/L	10.0	10		09/03/09 18:31	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/03/09 18:03	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		09/03/09 18:03	95-47-6	
4-Bromofluorobenzene (S)	102	%	70-130	1		09/03/09 18:03	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130	1		09/03/09 18:03	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/03/09 18:03	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

Sample: TB-01 **Lab ID: 3014860004** Collected: 08/31/09 00:00 Received: 09/01/09 10:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		09/03/09 18:58	67-64-1	
Benzene	ND	ug/L	1.0	1		09/03/09 18:58	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		09/03/09 18:58	75-27-4	
Bromoform	ND	ug/L	5.0	1		09/03/09 18:58	75-25-2	
Bromomethane	ND	ug/L	5.0	1		09/03/09 18:58	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		09/03/09 18:58	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		09/03/09 18:58	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		09/03/09 18:58	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		09/03/09 18:58	108-90-7	
Chloroethane	ND	ug/L	5.0	1		09/03/09 18:58	75-00-3	
Chloroform	ND	ug/L	5.0	1		09/03/09 18:58	67-66-3	
Chloromethane	ND	ug/L	5.0	1		09/03/09 18:58	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		09/03/09 18:58	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 18:58	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 18:58	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		09/03/09 18:58	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		09/03/09 18:58	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		09/03/09 18:58	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		09/03/09 18:58	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		09/03/09 18:58	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		09/03/09 18:58	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		09/03/09 18:58	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/09 18:58	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		09/03/09 18:58	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		09/03/09 18:58	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		09/03/09 18:58	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		09/03/09 18:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		09/03/09 18:58	108-10-1	
Styrene	ND	ug/L	5.0	1		09/03/09 18:58	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		09/03/09 18:58	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		09/03/09 18:58	127-18-4	
Toluene	ND	ug/L	5.0	1		09/03/09 18:58	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		09/03/09 18:58	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		09/03/09 18:58	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		09/03/09 18:58	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		09/03/09 18:58	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		09/03/09 18:58	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		09/03/09 18:58	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		09/03/09 18:58	95-47-6	
4-Bromofluorobenzene (S)	104	%	70-130	1		09/03/09 18:58	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		09/03/09 18:58	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/03/09 18:58	2037-26-5	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

QC Batch: MSV/3533 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3014860001, 3014860002, 3014860003, 3014860004

METHOD BLANK: 89482 Matrix: Water
Associated Lab Samples: 3014860001, 3014860002, 3014860003, 3014860004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	09/03/09 13:55	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	09/03/09 13:55	
1,1,2-Trichloroethane	ug/L	ND	5.0	09/03/09 13:55	
1,1-Dichloroethane	ug/L	ND	5.0	09/03/09 13:55	
1,1-Dichloroethene	ug/L	ND	5.0	09/03/09 13:55	
1,2-Dichlorobenzene	ug/L	ND	5.0	09/03/09 13:55	
1,2-Dichloroethane	ug/L	ND	5.0	09/03/09 13:55	
1,2-Dichloropropane	ug/L	ND	5.0	09/03/09 13:55	
1,3-Dichlorobenzene	ug/L	ND	5.0	09/03/09 13:55	
1,4-Dichlorobenzene	ug/L	ND	5.0	09/03/09 13:55	
2-Butanone (MEK)	ug/L	ND	10.0	09/03/09 13:55	
2-Hexanone	ug/L	ND	10.0	09/03/09 13:55	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	09/03/09 13:55	
Acetone	ug/L	ND	10.0	09/03/09 13:55	
Benzene	ug/L	ND	1.0	09/03/09 13:55	
Bromodichloromethane	ug/L	ND	5.0	09/03/09 13:55	
Bromoform	ug/L	ND	5.0	09/03/09 13:55	
Bromomethane	ug/L	ND	5.0	09/03/09 13:55	
Carbon disulfide	ug/L	ND	5.0	09/03/09 13:55	
Carbon tetrachloride	ug/L	ND	5.0	09/03/09 13:55	
Chlorobenzene	ug/L	ND	5.0	09/03/09 13:55	
Chloroethane	ug/L	ND	5.0	09/03/09 13:55	
Chloroform	ug/L	ND	5.0	09/03/09 13:55	
Chloromethane	ug/L	ND	5.0	09/03/09 13:55	
cis-1,2-Dichloroethene	ug/L	ND	5.0	09/03/09 13:55	
cis-1,3-Dichloropropene	ug/L	ND	5.0	09/03/09 13:55	
Dibromochloromethane	ug/L	ND	5.0	09/03/09 13:55	
Ethylbenzene	ug/L	ND	5.0	09/03/09 13:55	
m&p-Xylene	ug/L	ND	5.0	09/03/09 13:55	
Methylene Chloride	ug/L	ND	5.0	09/03/09 13:55	
o-Xylene	ug/L	ND	5.0	09/03/09 13:55	
Styrene	ug/L	ND	5.0	09/03/09 13:55	
Tetrachloroethene	ug/L	ND	5.0	09/03/09 13:55	
Toluene	ug/L	ND	5.0	09/03/09 13:55	
trans-1,2-Dichloroethene	ug/L	ND	5.0	09/03/09 13:55	
trans-1,3-Dichloropropene	ug/L	ND	5.0	09/03/09 13:55	
Trichloroethene	ug/L	ND	5.0	09/03/09 13:55	
Trichlorofluoromethane	ug/L	ND	5.0	09/03/09 13:55	
Vinyl chloride	ug/L	ND	1.0	09/03/09 13:55	
1,2-Dichloroethane-d4 (S)	%	94	70-130	09/03/09 13:55	
4-Bromofluorobenzene (S)	%	100	70-130	09/03/09 13:55	
Toluene-d8 (S)	%	103	70-130	09/03/09 13:55	

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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

LABORATORY CONTROL SAMPLE: 89483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.5	87	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	21.3	107	70-130	
1,1,2-Trichloroethane	ug/L	20	21.1	106	70-130	
1,1-Dichloroethane	ug/L	20	19.2	96	70-130	
1,1-Dichloroethene	ug/L	20	16.2	81	70-130	
1,2-Dichlorobenzene	ug/L	20	20.8	104	70-130	
1,2-Dichloroethane	ug/L	20	19.1	95	70-130	
1,2-Dichloropropane	ug/L	20	20.6	103	70-130	
1,3-Dichlorobenzene	ug/L	20	20.6	103	70-130	
1,4-Dichlorobenzene	ug/L	20	19.8	99	70-130	
2-Butanone (MEK)	ug/L	20	22.5	113	70-130	
2-Hexanone	ug/L	20	22.5	113	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	21.7	109	70-130	
Acetone	ug/L	20	23.6	118	70-130	
Benzene	ug/L	20	19.0	95	70-130	
Bromodichloromethane	ug/L	20	20.6	103	70-130	
Bromoform	ug/L	20	19.8	99	70-130	
Bromomethane	ug/L	20	16.8	84	70-130	
Carbon disulfide	ug/L	20	18.6	93	70-130	
Carbon tetrachloride	ug/L	20	17.7	88	70-130	
Chlorobenzene	ug/L	20	19.5	97	70-130	
Chloroethane	ug/L	20	11.1	56	70-130	L0
Chloroform	ug/L	20	20.5	102	70-130	
Chloromethane	ug/L	20	17.5	88	70-130	
cis-1,2-Dichloroethene	ug/L	20	21.5	107	70-130	
cis-1,3-Dichloropropene	ug/L	20	19.1	95	70-130	
Dibromochloromethane	ug/L	20	20.2	101	70-130	
Ethylbenzene	ug/L	20	18.4	92	70-130	
m&p-Xylene	ug/L	40	37.2	93	70-130	
Methylene Chloride	ug/L	20	23.3	117	70-130	
o-Xylene	ug/L	20	18.5	93	70-130	
Styrene	ug/L	20	19.7	99	70-130	
Tetrachloroethene	ug/L	20	19.3	96	70-130	
Toluene	ug/L	20	18.7	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	19.8	99	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.2	101	70-130	
Trichloroethene	ug/L	20	19.4	97	70-130	
Trichlorofluoromethane	ug/L	20	16.6	83	70-130	
Vinyl chloride	ug/L	20	16.9	85	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 89846 89847

Parameter	Units	3014856002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	19.5	20.4	98	102	70-130	5	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.4	20.1	102	101	70-130	1	
1,1,2-Trichloroethane	ug/L	ND	20	20	21.1	21.2	105	106	70-130	.9	
1,1-Dichloroethane	ug/L	ND	20	20	20.0	20.8	100	104	70-130	4	
1,1-Dichloroethene	ug/L	ND	20	20	18.9	20.0	95	100	70-130	6	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.3	17.7	91	88	70-130	3	
1,2-Dichloroethane	ug/L	ND	20	20	18.4	19.3	92	97	70-130	5	
1,2-Dichloropropane	ug/L	ND	20	20	19.7	20.1	98	100	70-130	2	
1,3-Dichlorobenzene	ug/L	ND	20	20	17.2	16.3	86	82	70-130	5	
1,4-Dichlorobenzene	ug/L	ND	20	20	17.3	16.4	86	82	70-130	5	
2-Butanone (MEK)	ug/L	ND	20	20	17.2	20.4	86	102	70-130	17	
2-Hexanone	ug/L	ND	20	20	20.2	21.3	101	107	70-130	5	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	19.9	21.0	99	105	70-130	6	
Acetone	ug/L	ND	20	20	16.3	20.1	82	101	70-130	21	
Benzene	ug/L	ND	20	20	20.1	20.6	101	103	70-130	2	
Bromodichloromethane	ug/L	ND	20	20	18.1	19.7	91	98	70-130	8	
Bromoform	ug/L	ND	20	20	16.2	16.6	81	83	70-130	2	
Bromomethane	ug/L	ND	20	20	9.6	12.2	48	61	70-130	24	M0
Carbon disulfide	ug/L	ND	20	20	18.5	18.4	93	92	70-130	.9	
Carbon tetrachloride	ug/L	ND	20	20	19.7	21.0	98	105	70-130	7	
Chlorobenzene	ug/L	ND	20	20	18.1	18.0	91	90	70-130	.7	
Chloroethane	ug/L	ND	20	20	11.4	12.7	57	64	70-130	11	L0,M0
Chloroform	ug/L	ND	20	20	19.4	20.6	97	103	70-130	6	
Chloromethane	ug/L	ND	20	20	17.2	18.5	82	89	70-130	7	
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.2	22.5	106	112	70-130	6	
cis-1,3-Dichloropropene	ug/L	ND	20	20	17.8	18.8	89	94	70-130	6	
Dibromochloromethane	ug/L	ND	20	20	17.4	18.4	87	92	70-130	6	
Ethylbenzene	ug/L	ND	20	20	18.5	18.4	93	92	70-130	.9	
m&p-Xylene	ug/L	ND	40	40	38.9	39.2	97	98	70-130	.6	
Methylene Chloride	ug/L	ND	20	20	20.8	22.5	104	112	70-130	8	
o-Xylene	ug/L	ND	20	20	18.9	18.4	94	92	70-130	2	
Styrene	ug/L	ND	20	20	17.1	17.2	85	86	70-130	.6	
Tetrachloroethene	ug/L	ND	20	20	19.7	19.6	99	98	70-130	.9	
Toluene	ug/L	ND	20	20	18.8	19.4	94	97	70-130	3	
trans-1,2-Dichloroethene	ug/L	ND	20	20	19.2	20.7	96	103	70-130	7	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.0	18.8	90	94	70-130	4	
Trichloroethene	ug/L	ND	20	20	18.9	19.2	94	96	70-130	2	
Trichlorofluoromethane	ug/L	ND	20	20	16.9	18.5	85	92	70-130	9	
Vinyl chloride	ug/L	ND	20	20	16.4	17.2	82	86	70-130	5	
1,2-Dichloroethane-d4 (S)	%						100	107	70-130		
4-Bromofluorobenzene (S)	%						100	103	70-130		
Toluene-d8 (S)	%						100	105	70-130		

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(724)850-5600

QUALIFIERS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

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

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(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568453.10000
Pace Project No.: 3014860

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3014860001	**PRE-CARB**	EPA 8260	MSV/3533		
3014860002	**PRIMARY-EFF**	EPA 8260	MSV/3533		
3014860003	**POST-CARB**	EPA 8260	MSV/3533		
3014860004	**TB-01**	EPA 8260	MSV/3533		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1295756

Section A Required Client Information:

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

Section B Required Project Information:

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

Section C Invoice Information:

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

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

Site Location STATE: NY

Section D Required Client Information

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

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	WT	G			8/31/09	1400		3				X					X		001
2	PRIMARY-EFF	↓	↓			↓	1405		3				X					X		002
3	POST-CARB						1410		3				X					X		003
4	POST-CARB						1440		3				X					X		↓
5	POST-CARB						1510		3				X					X		
6	POST-CARB					↓	1540		3				X					X		
7	TB-01	WT	↓			8/31/09	—		2				X					X		004
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COMPOSITE FOUR (4)	Valerie Sibeto / URS	8/31/09	1600	FedEx 8672 5538 1280	8/31/09	1600				
POST-CARB SAMPLES IN		Fed Ex		C Urbowitz Pace	9/1/09	1000	5.6	Y	N	Y
LAB AND REPORT AS										
POST-CARB COMPOSITE										

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: Valerie Sibeto
DATE Signed (MM/DD/YY): 8-31-09

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

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 30148600

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

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

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

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

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

Cooler Temperature 5.6 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: CW 9-1

Temp should be above freezing to 6°C

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Raelyn Sylvester **Date:** 9/1/09 RES

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

F-ALL-C003-3, 11September2006

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Greensburg, PA 15601
(724)850-5600

December 09, 2009

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

RE: Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

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

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

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4 Greensburg, PA 15601
Wyoming Certification #: 8TMS-Q
Wisconsin/PADEP Certification
West Virginia Certification #: 143
Washington Certification #: C1941
Virginia Certification #: 00112
Virgin Island/PADEP Certification
Utah/NELAC Certification #: ANTE
Texas/NELAC Certification #: T104704188-09 TX
Tennessee Certification #: TN2867
South Dakota Certification
Puerto Rico Certification #: PA01457
Pennsylvania/NELAC Certification #: 65-282
Oregon/NELAC Certification #: PA200002
North Carolina Certification #: 42706
New York/NELAC Certification #: 10888
New Mexico Certification
New Jersey/NELAC Certification #: PA 051
New Hampshire/NELAC Certification #: 2976
Nevada Certification
Montana Certification #: Cert 0082
Missouri Certification #: 235
Minnesota Certification #: 042-999-425
Michigan/PADEP Certification
Massachusetts Certification #: M-PA1457
Maryland Certification #: 308
Maine Certification #: PA0091
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Kentucky Certification #: 90133
Kansas/NELAC Certification #: E-10358
Iowa Certification #: 391
Indiana/PADEP Certification
Illinois/PADEP Certification
Idaho Certification
Hawaii/PADEP Certification
Guam/PADEP Certification
Georgia Certification #: 968
Florida/NELAC Certification #: E87683
Delaware Certification
Connecticut Certification #: PH 0694
Colorado Certification
California/NELAC Certification #: 04222CA
Arkansas Certification
Arizona Certification #: AZ0734
Alabama Certification #: 41590

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SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3019170001	**PRE-CARB**	EPA 8260	JAS, JHC	42	PASI-PA
3019170002	**PRIMARY-EFF**	EPA 8260	JAS, JHC	42	PASI-PA
3019170003	**POST-CARB**	EPA 8260	JAS	42	PASI-PA
3019170004	**TB-01**	EPA 8260	JAS	42	PASI-PA

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

Sample: PRE-CARB **Lab ID: 3019170001** Collected: 11/30/09 13:15 Received: 12/01/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**855**	ug/L	400	40		12/03/09 20:12	67-64-1	
Benzene	**25.5**	ug/L	1.0	1		12/02/09 21:21	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/02/09 21:21	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/02/09 21:21	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/02/09 21:21	74-83-9	
2-Butanone (MEK)	**24.0**	ug/L	10.0	1		12/02/09 21:21	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/02/09 21:21	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/02/09 21:21	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/02/09 21:21	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/02/09 21:21	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/02/09 21:21	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/02/09 21:21	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/02/09 21:21	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 21:21	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 21:21	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 21:21	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/02/09 21:21	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/02/09 21:21	107-06-2	
1,1-Dichloroethene	**21.3**	ug/L	5.0	1		12/02/09 21:21	75-35-4	
cis-1,2-Dichloroethene	**3470**	ug/L	200	40		12/03/09 20:12	156-59-2	
trans-1,2-Dichloroethene	**137**	ug/L	5.0	1		12/02/09 21:21	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/02/09 21:21	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/02/09 21:21	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/02/09 21:21	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/02/09 21:21	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/02/09 21:21	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/02/09 21:21	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/02/09 21:21	108-10-1	
Styrene	ND	ug/L	5.0	1		12/02/09 21:21	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/02/09 21:21	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/02/09 21:21	127-18-4	
Toluene	ND	ug/L	5.0	1		12/02/09 21:21	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/02/09 21:21	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/02/09 21:21	79-00-5	
Trichloroethene	**1940**	ug/L	200	40		12/03/09 20:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/02/09 21:21	75-69-4	
Vinyl chloride	**284**	ug/L	40.0	40		12/03/09 20:12	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/02/09 21:21	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/02/09 21:21	95-47-6	
4-Bromofluorobenzene (S)	101	%	70-130	1		12/02/09 21:21	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		12/02/09 21:21	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		12/02/09 21:21	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

Sample: PRIMARY-EFF **Lab ID: 3019170002** Collected: 11/30/09 13:20 Received: 12/01/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**1300**	ug/L	400	40		12/03/09 20:37	67-64-1	
Benzene	ND	ug/L	1.0	1		12/02/09 21:47	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/02/09 21:47	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/02/09 21:47	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/02/09 21:47	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/02/09 21:47	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/02/09 21:47	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/02/09 21:47	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/02/09 21:47	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/02/09 21:47	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/02/09 21:47	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/02/09 21:47	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/02/09 21:47	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 21:47	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 21:47	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 21:47	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/02/09 21:47	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/02/09 21:47	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/02/09 21:47	75-35-4	
cis-1,2-Dichloroethene	**58.0**	ug/L	5.0	1		12/02/09 21:47	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/02/09 21:47	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/02/09 21:47	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/02/09 21:47	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/02/09 21:47	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/02/09 21:47	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/02/09 21:47	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/02/09 21:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/02/09 21:47	108-10-1	
Styrene	ND	ug/L	5.0	1		12/02/09 21:47	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/02/09 21:47	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/02/09 21:47	127-18-4	
Toluene	ND	ug/L	5.0	1		12/02/09 21:47	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/02/09 21:47	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/02/09 21:47	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/02/09 21:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/02/09 21:47	75-69-4	
Vinyl chloride	**428**	ug/L	40.0	40		12/03/09 20:37	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/02/09 21:47	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/02/09 21:47	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/02/09 21:47	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		12/02/09 21:47	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		12/02/09 21:47	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

Sample: POST-CARB **Lab ID: 3019170003** Collected: 11/30/09 13:25 Received: 12/01/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**30.3**	ug/L	10.0	1		12/02/09 22:12	67-64-1	
Benzene	ND	ug/L	1.0	1		12/02/09 22:12	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/02/09 22:12	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/02/09 22:12	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/02/09 22:12	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/02/09 22:12	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/02/09 22:12	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/02/09 22:12	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/02/09 22:12	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/02/09 22:12	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/02/09 22:12	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/02/09 22:12	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/02/09 22:12	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 22:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 22:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 22:12	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/02/09 22:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/02/09 22:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/02/09 22:12	75-35-4	
cis-1,2-Dichloroethene	**349**	ug/L	5.0	1		12/02/09 22:12	156-59-2	
trans-1,2-Dichloroethene	**5.0**	ug/L	5.0	1		12/02/09 22:12	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/02/09 22:12	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/02/09 22:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/02/09 22:12	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/02/09 22:12	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/02/09 22:12	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/02/09 22:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/02/09 22:12	108-10-1	
Styrene	ND	ug/L	5.0	1		12/02/09 22:12	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/02/09 22:12	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/02/09 22:12	127-18-4	
Toluene	ND	ug/L	5.0	1		12/02/09 22:12	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/02/09 22:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/02/09 22:12	79-00-5	
Trichloroethene	**14.6**	ug/L	5.0	1		12/02/09 22:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/02/09 22:12	75-69-4	
Vinyl chloride	**7.1**	ug/L	1.0	1		12/02/09 22:12	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/02/09 22:12	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/02/09 22:12	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/02/09 22:12	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130	1		12/02/09 22:12	17060-07-0	
Toluene-d8 (S)	98	%	70-130	1		12/02/09 22:12	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

Sample: TB-01 **Lab ID: 3019170004** Collected: 11/30/09 00:00 Received: 12/01/09 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/02/09 22:37	67-64-1	
Benzene	ND	ug/L	1.0	1		12/02/09 22:37	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/02/09 22:37	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/02/09 22:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/02/09 22:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/02/09 22:37	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/02/09 22:37	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/02/09 22:37	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/02/09 22:37	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/02/09 22:37	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/02/09 22:37	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/02/09 22:37	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/02/09 22:37	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 22:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 22:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/02/09 22:37	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/02/09 22:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/02/09 22:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/02/09 22:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/02/09 22:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/02/09 22:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/02/09 22:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/02/09 22:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/02/09 22:37	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/02/09 22:37	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/02/09 22:37	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/02/09 22:37	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/02/09 22:37	108-10-1	
Styrene	ND	ug/L	5.0	1		12/02/09 22:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/02/09 22:37	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/02/09 22:37	127-18-4	
Toluene	ND	ug/L	5.0	1		12/02/09 22:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/02/09 22:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/02/09 22:37	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/02/09 22:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/02/09 22:37	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		12/02/09 22:37	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/02/09 22:37	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/02/09 22:37	95-47-6	
4-Bromofluorobenzene (S)	97	%	70-130	1		12/02/09 22:37	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130	1		12/02/09 22:37	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		12/02/09 22:37	2037-26-5	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

QC Batch: MSV/4386 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3019170001, 3019170002, 3019170003, 3019170004

METHOD BLANK: 118929 Matrix: Water
Associated Lab Samples: 3019170001, 3019170002, 3019170003, 3019170004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	12/02/09 15:02	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/02/09 15:02	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/02/09 15:02	
1,1-Dichloroethane	ug/L	ND	5.0	12/02/09 15:02	
1,1-Dichloroethene	ug/L	ND	5.0	12/02/09 15:02	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/02/09 15:02	
1,2-Dichloroethane	ug/L	ND	5.0	12/02/09 15:02	
1,2-Dichloropropane	ug/L	ND	5.0	12/02/09 15:02	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/02/09 15:02	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/02/09 15:02	
2-Butanone (MEK)	ug/L	ND	10.0	12/02/09 15:02	
2-Hexanone	ug/L	ND	10.0	12/02/09 15:02	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/02/09 15:02	
Acetone	ug/L	ND	10.0	12/02/09 15:02	
Benzene	ug/L	ND	1.0	12/02/09 15:02	
Bromodichloromethane	ug/L	ND	5.0	12/02/09 15:02	
Bromoform	ug/L	ND	5.0	12/02/09 15:02	
Bromomethane	ug/L	ND	5.0	12/02/09 15:02	
Carbon disulfide	ug/L	ND	5.0	12/02/09 15:02	
Carbon tetrachloride	ug/L	ND	5.0	12/02/09 15:02	
Chlorobenzene	ug/L	ND	5.0	12/02/09 15:02	
Chloroethane	ug/L	ND	5.0	12/02/09 15:02	
Chloroform	ug/L	ND	5.0	12/02/09 15:02	
Chloromethane	ug/L	ND	5.0	12/02/09 15:02	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/02/09 15:02	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/02/09 15:02	
Dibromochloromethane	ug/L	ND	5.0	12/02/09 15:02	
Ethylbenzene	ug/L	ND	5.0	12/02/09 15:02	
m&p-Xylene	ug/L	ND	5.0	12/02/09 15:02	
Methylene Chloride	ug/L	ND	5.0	12/02/09 15:02	
o-Xylene	ug/L	ND	5.0	12/02/09 15:02	
Styrene	ug/L	ND	5.0	12/02/09 15:02	
Tetrachloroethene	ug/L	ND	5.0	12/02/09 15:02	
Toluene	ug/L	ND	5.0	12/02/09 15:02	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/02/09 15:02	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/02/09 15:02	
Trichloroethene	ug/L	ND	5.0	12/02/09 15:02	
Trichlorofluoromethane	ug/L	ND	5.0	12/02/09 15:02	
Vinyl chloride	ug/L	ND	1.0	12/02/09 15:02	
1,2-Dichloroethane-d4 (S)	%	85	70-130	12/02/09 15:02	
4-Bromofluorobenzene (S)	%	98	70-130	12/02/09 15:02	
Toluene-d8 (S)	%	98	70-130	12/02/09 15:02	

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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

LABORATORY CONTROL SAMPLE: 118930

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	17.3	86	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	19.8	99	70-130	
1,1,2-Trichloroethane	ug/L	20	18.2	91	70-130	
1,1-Dichloroethane	ug/L	20	17.7	88	70-130	
1,1-Dichloroethene	ug/L	20	16.7	83	70-130	
1,2-Dichlorobenzene	ug/L	20	21.6	108	70-130	
1,2-Dichloroethane	ug/L	20	17.9	89	70-130	
1,2-Dichloropropane	ug/L	20	17.6	88	70-130	
1,3-Dichlorobenzene	ug/L	20	20.6	103	70-130	
1,4-Dichlorobenzene	ug/L	20	21.2	106	70-130	
2-Butanone (MEK)	ug/L	20	22.6	113	70-130	
2-Hexanone	ug/L	20	23.3	116	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	20.8	104	70-130	
Acetone	ug/L	20	18.7	93	70-130	
Benzene	ug/L	20	17.6	88	70-130	
Bromodichloromethane	ug/L	20	15.5	78	70-130	
Bromoform	ug/L	20	14.6	73	70-130	
Bromomethane	ug/L	20	24.2	121	70-130	
Carbon disulfide	ug/L	20	21.0	105	70-130	
Carbon tetrachloride	ug/L	20	16.0	80	70-130	
Chlorobenzene	ug/L	20	17.9	90	70-130	
Chloroethane	ug/L	20	14.9	75	70-130	
Chloroform	ug/L	20	17.5	88	70-130	
Chloromethane	ug/L	20	15.5	78	70-130	
cis-1,2-Dichloroethene	ug/L	20	18.4	92	70-130	
cis-1,3-Dichloropropene	ug/L	20	16.2	81	70-130	
Dibromochloromethane	ug/L	20	15.1	75	70-130	
Ethylbenzene	ug/L	20	18.2	91	70-130	
m&p-Xylene	ug/L	40	38.2	95	70-130	
Methylene Chloride	ug/L	20	14.1	71	70-130	
o-Xylene	ug/L	20	18.3	91	70-130	
Styrene	ug/L	20	18.3	92	70-130	
Tetrachloroethene	ug/L	20	17.9	89	70-130	
Toluene	ug/L	20	18.3	92	70-130	
trans-1,2-Dichloroethene	ug/L	20	13.0	65	70-130	L2
trans-1,3-Dichloropropene	ug/L	20	16.1	80	70-130	
Trichloroethene	ug/L	20	18.6	93	70-130	
Trichlorofluoromethane	ug/L	20	14.1	71	70-130	
Vinyl chloride	ug/L	20	16.5	83	70-130	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			91	70-130	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 118931 118932

Parameter	Units	3019182005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	12.3	11.7	62	59	70-130	5	M0
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.5	18.5	82	93	70-130	12	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.1	17.1	81	86	70-130	6	
1,1-Dichloroethane	ug/L	ND	20	20	13.7	13.5	68	68	70-130	1	M0
1,1-Dichloroethene	ug/L	ND	20	20	12.8	12.0	64	60	70-130	6	M0
1,2-Dichlorobenzene	ug/L	ND	20	20	15.9	15.6	79	78	70-130	2	
1,2-Dichloroethane	ug/L	ND	20	20	14.2	14.9	71	75	70-130	5	
1,2-Dichloropropane	ug/L	ND	20	20	15.2	14.9	76	75	70-130	2	
1,3-Dichlorobenzene	ug/L	ND	20	20	14.6	14.1	73	71	70-130	3	
1,4-Dichlorobenzene	ug/L	ND	20	20	15.0	14.8	75	74	70-130	2	
2-Butanone (MEK)	ug/L	ND	20	20	17.1	18.2	85	91	70-130	6	
2-Hexanone	ug/L	ND	20	20	18.5	21.7	92	109	70-130	16	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	17.9	21.1	89	106	70-130	17	
Acetone	ug/L	ND	20	20	16.2	14.6	81	73	70-130	11	
Benzene	ug/L	ND	20	20	15.0	14.9	75	74	70-130	.9	
Bromodichloromethane	ug/L	ND	20	20	12.2	13.1	61	65	70-130	7	M0
Bromoform	ug/L	ND	20	20	12.7	13.7	63	69	70-130	8	M0
Bromomethane	ug/L	ND	20	20	13.1	14.2	65	71	70-130	8	M0
Carbon disulfide	ug/L	ND	20	20	17.0	13.5	85	67	70-130	23	M0
Carbon tetrachloride	ug/L	ND	20	20	11.2	11.0	56	55	70-130	2	M0
Chlorobenzene	ug/L	ND	20	20	14.9	14.6	74	73	70-130	2	
Chloroethane	ug/L	ND	20	20	11.0	13.6	55	68	70-130	21	M0
Chloroform	ug/L	ND	20	20	14.1	13.8	70	69	70-130	1	M0
Chloromethane	ug/L	ND	20	20	13.3	14.3	66	71	70-130	7	M0
cis-1,2-Dichloroethene	ug/L	ND	20	20	14.0	14.2	70	71	70-130	1	
cis-1,3-Dichloropropene	ug/L	ND	20	20	12.7	13.3	64	67	70-130	5	M0
Dibromochloromethane	ug/L	ND	20	20	12.2	12.9	61	64	70-130	5	M0
Ethylbenzene	ug/L	ND	20	20	14.8	14.0	74	70	70-130	5	
m&p-Xylene	ug/L	ND	40	40	30.6	28.4	77	71	70-130	8	
Methylene Chloride	ug/L	ND	20	20	11.7	11.4	59	57	70-130	2	M0
o-Xylene	ug/L	ND	20	20	15.3	14.5	76	73	70-130	5	
Styrene	ug/L	ND	20	20	15.1	14.7	75	74	70-130	2	
Tetrachloroethene	ug/L	ND	20	20	13.2	12.7	66	64	70-130	3	M0
Toluene	ug/L	ND	20	20	14.9	14.6	74	73	70-130	2	
trans-1,2-Dichloroethene	ug/L	ND	20	20	13.5	12.7	67	63	70-130	6	M0
trans-1,3-Dichloropropene	ug/L	ND	20	20	12.6	13.5	63	68	70-130	7	M0
Trichloroethene	ug/L	ND	20	20	13.6	13.3	68	67	70-130	2	M0
Trichlorofluoromethane	ug/L	ND	20	20	9.8	13.4	49	67	70-130	31	M0,R1
Vinyl chloride	ug/L	ND	20	20	15.1	16.2	75	81	70-130	7	
1,2-Dichloroethane-d4 (S)	%						87	87	70-130		
4-Bromofluorobenzene (S)	%						94	98	70-130		
Toluene-d8 (S)	%						98	98	70-130		

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QUALIFIERS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
R1	RPD value was outside control limits.

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(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568453.10000
Pace Project No.: 3019170

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3019170001	**PRE-CARB**	EPA 8260	MSV/4386		
3019170002	**PRIMARY-EFF**	EPA 8260	MSV/4386		
3019170003	**POST-CARB**	EPA 8260	MSV/4386		
3019170004	**TB-01**	EPA 8260	MSV/4386		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1295666

Section A Required Client Information:

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

Section B Required Project Information:

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

Section C Invoice Information:

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

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

Site Location STATE: NY

Section D Required Client Information

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

Requested Analysis Filtered (Y/N): Analysis Test: VOCs 8260

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	WT	G			11/30/09	1315		3				X					X		001
2	PRIMARY-EFF						1320		3				X					X		002
3	POST-CARB						1325		3				X					X		003
4	POST-CARB						1355		3				X					X		
5	POST-CARB						1425		3				X					X		
6	POST-CARB						1455		3				X					X		
7	TB-01	WT	G			11/30/09	—		2				X					X		004
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COMPOSITE FOUR (4)	[signature] URS	11/30/09	1530	Fed Ex	11/30/09	1530				
POST-CARB SAMPLES IN		Fed Ex		C. Urbowicz Pace	12-1-09	1030	5.1	Y	N	Y
LAB AND REPORT AS										
POST-CARB COMPOSITE										

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 11/30/09

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

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 3019170

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

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

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

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

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

Cooler Temperature 5.1 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: CW 12/1

Temp should be above freezing to 6°C

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Raelyn Sylvester **Date:** 12/1/09

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

F-ALLC003-3, 11September2006

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December 30, 2009

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

RE: Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

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

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

Sincerely,

Raelyn Sylvester

raelyn.sylvester@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

Pennsylvania Certification IDs
1638 Roseytown Road Suites 2,3&4 Greensburg, PA 15601
Wyoming Certification #: 8TMS-Q
Wisconsin/PADEP Certification
West Virginia Certification #: 143
Washington Certification #: C1941
Virginia Certification #: 00112
Virgin Island/PADEP Certification
Utah/NELAC Certification #: ANTE
Texas/NELAC Certification #: T104704188-09 TX
Tennessee Certification #: TN2867
South Dakota Certification
Puerto Rico Certification #: PA01457
Pennsylvania/NELAC Certification #: 65-282
Oregon/NELAC Certification #: PA200002
North Carolina Certification #: 42706
New York/NELAC Certification #: 10888
New Mexico Certification
New Jersey/NELAC Certification #: PA 051
New Hampshire/NELAC Certification #: 2976
Nevada Certification
Montana Certification #: Cert 0082
Missouri Certification #: 235
Minnesota Certification #: 042-999-425
Michigan/PADEP Certification
Massachusetts Certification #: M-PA1457
Maryland Certification #: 308
Maine Certification #: PA0091
Louisiana/NELAC Certification #: LA080002
Louisiana/NELAC Certification #: 4086
Kentucky Certification #: 90133
Kansas/NELAC Certification #: E-10358
Iowa Certification #: 391
Indiana/PADEP Certification
Illinois/PADEP Certification
Idaho Certification
Hawaii/PADEP Certification
Guam/PADEP Certification
Georgia Certification #: 968
Florida/NELAC Certification #: E87683
Delaware Certification
Connecticut Certification #: PH 0694
Colorado Certification
California/NELAC Certification #: 04222CA
Arkansas Certification
Arizona Certification #: AZ0734
Alabama Certification #: 41590

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SAMPLE ANALYTE COUNT

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3020335001	**PRE-CARB**	EPA 8260	JAS	42	PASI-PA
3020335002	**PRIMARY-EFF**	EPA 8260	JAS	42	PASI-PA
3020335003	**POST-CARB**	EPA 8260	JAS	42	PASI-PA
3020335004	**TB-01**	EPA 8260	JAS	42	PASI-PA

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

Sample: PRE-CARB **Lab ID: 3020335001** Collected: 12/22/09 11:10 Received: 12/23/09 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/28/09 19:20	67-64-1	
Benzene	**3.9**	ug/L	1.0	1		12/28/09 19:20	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/28/09 19:20	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/28/09 19:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/28/09 19:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/28/09 19:20	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/28/09 19:20	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/28/09 19:20	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/28/09 19:20	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/28/09 19:20	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/28/09 19:20	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/28/09 19:20	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/28/09 19:20	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 19:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 19:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 19:20	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/28/09 19:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/28/09 19:20	107-06-2	
1,1-Dichloroethene	**11.5**	ug/L	5.0	1		12/28/09 19:20	75-35-4	
cis-1,2-Dichloroethene	**1820**	ug/L	200	40		12/28/09 19:47	156-59-2	
trans-1,2-Dichloroethene	**25.3**	ug/L	5.0	1		12/28/09 19:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/28/09 19:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/28/09 19:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/28/09 19:20	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/28/09 19:20	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/28/09 19:20	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/28/09 19:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/28/09 19:20	108-10-1	
Styrene	ND	ug/L	5.0	1		12/28/09 19:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/28/09 19:20	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/28/09 19:20	127-18-4	
Toluene	ND	ug/L	5.0	1		12/28/09 19:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/28/09 19:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/28/09 19:20	79-00-5	
Trichloroethene	**1080**	ug/L	200	40		12/28/09 19:47	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/28/09 19:20	75-69-4	
Vinyl chloride	**348**	ug/L	1.0	1		12/28/09 19:20	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/28/09 19:20	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/28/09 19:20	95-47-6	
4-Bromofluorobenzene (S)	93	%	70-130	1		12/28/09 19:20	460-00-4	
1,2-Dichloroethane-d4 (S)	84	%	70-130	1		12/28/09 19:20	17060-07-0	
Toluene-d8 (S)	85	%	70-130	1		12/28/09 19:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

Sample: PRIMARY-EFF **Lab ID: 3020335002** Collected: 12/22/09 11:15 Received: 12/23/09 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**2030**	ug/L	400	40		12/28/09 20:40	67-64-1	
Benzene	ND	ug/L	1.0	1		12/28/09 20:13	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/28/09 20:13	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/28/09 20:13	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/28/09 20:13	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/28/09 20:13	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/28/09 20:13	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/28/09 20:13	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/28/09 20:13	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/28/09 20:13	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/28/09 20:13	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/28/09 20:13	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/28/09 20:13	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 20:13	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 20:13	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 20:13	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/28/09 20:13	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/28/09 20:13	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/28/09 20:13	75-35-4	
cis-1,2-Dichloroethene	**64.9**	ug/L	5.0	1		12/28/09 20:13	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/28/09 20:13	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/28/09 20:13	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/28/09 20:13	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/28/09 20:13	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/28/09 20:13	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/28/09 20:13	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/28/09 20:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/28/09 20:13	108-10-1	
Styrene	ND	ug/L	5.0	1		12/28/09 20:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/28/09 20:13	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/28/09 20:13	127-18-4	
Toluene	ND	ug/L	5.0	1		12/28/09 20:13	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/28/09 20:13	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/28/09 20:13	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/28/09 20:13	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/28/09 20:13	75-69-4	
Vinyl chloride	**778**	ug/L	40.0	40		12/28/09 20:40	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/28/09 20:13	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/28/09 20:13	95-47-6	
4-Bromofluorobenzene (S)	98	%	70-130	1		12/28/09 20:13	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		12/28/09 20:13	17060-07-0	
Toluene-d8 (S)	87	%	70-130	1		12/28/09 20:13	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

Sample: POST-CARB **Lab ID: 3020335003** Collected: 12/22/09 12:50 Received: 12/23/09 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	**31.4**	ug/L	10.0	1		12/28/09 21:06	67-64-1	
Benzene	ND	ug/L	1.0	1		12/28/09 21:06	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/28/09 21:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/28/09 21:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/28/09 21:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/28/09 21:06	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/28/09 21:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/28/09 21:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/28/09 21:06	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/28/09 21:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/28/09 21:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/28/09 21:06	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/28/09 21:06	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 21:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 21:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 21:06	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/28/09 21:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/28/09 21:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/28/09 21:06	75-35-4	
cis-1,2-Dichloroethene	**244**	ug/L	5.0	1		12/28/09 21:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/28/09 21:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/28/09 21:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/28/09 21:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/28/09 21:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/28/09 21:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/28/09 21:06	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/28/09 21:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/28/09 21:06	108-10-1	
Styrene	ND	ug/L	5.0	1		12/28/09 21:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/28/09 21:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/28/09 21:06	127-18-4	
Toluene	ND	ug/L	5.0	1		12/28/09 21:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/28/09 21:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/28/09 21:06	79-00-5	
Trichloroethene	**10.0**	ug/L	5.0	1		12/28/09 21:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/28/09 21:06	75-69-4	
Vinyl chloride	**6.8**	ug/L	1.0	1		12/28/09 21:06	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/28/09 21:06	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/28/09 21:06	95-47-6	
4-Bromofluorobenzene (S)	94	%	70-130	1		12/28/09 21:06	460-00-4	
1,2-Dichloroethane-d4 (S)	81	%	70-130	1		12/28/09 21:06	17060-07-0	
Toluene-d8 (S)	89	%	70-130	1		12/28/09 21:06	2037-26-5	

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ANALYTICAL RESULTS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

Sample: TB-01 **Lab ID: 3020335004** Collected: 12/22/09 00:00 Received: 12/23/09 12:40 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND	ug/L	10.0	1		12/28/09 18:54	67-64-1	
Benzene	ND	ug/L	1.0	1		12/28/09 18:54	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		12/28/09 18:54	75-27-4	
Bromoform	ND	ug/L	5.0	1		12/28/09 18:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		12/28/09 18:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		12/28/09 18:54	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		12/28/09 18:54	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		12/28/09 18:54	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		12/28/09 18:54	108-90-7	
Chloroethane	ND	ug/L	5.0	1		12/28/09 18:54	75-00-3	
Chloroform	ND	ug/L	5.0	1		12/28/09 18:54	67-66-3	
Chloromethane	ND	ug/L	5.0	1		12/28/09 18:54	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		12/28/09 18:54	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 18:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 18:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		12/28/09 18:54	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		12/28/09 18:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/28/09 18:54	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		12/28/09 18:54	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		12/28/09 18:54	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		12/28/09 18:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		12/28/09 18:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		12/28/09 18:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		12/28/09 18:54	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		12/28/09 18:54	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		12/28/09 18:54	591-78-6	
Methylene Chloride	ND	ug/L	5.0	1		12/28/09 18:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		12/28/09 18:54	108-10-1	
Styrene	ND	ug/L	5.0	1		12/28/09 18:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		12/28/09 18:54	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		12/28/09 18:54	127-18-4	
Toluene	ND	ug/L	5.0	1		12/28/09 18:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		12/28/09 18:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		12/28/09 18:54	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		12/28/09 18:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		12/28/09 18:54	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		12/28/09 18:54	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		12/28/09 18:54	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/28/09 18:54	95-47-6	
4-Bromofluorobenzene (S)	92	%	70-130	1		12/28/09 18:54	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130	1		12/28/09 18:54	17060-07-0	
Toluene-d8 (S)	91	%	70-130	1		12/28/09 18:54	2037-26-5	

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QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

QC Batch: MSV/4687 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 3020335001, 3020335002, 3020335003, 3020335004

METHOD BLANK: 127342 Matrix: Water
Associated Lab Samples: 3020335001, 3020335002, 3020335003, 3020335004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	12/28/09 14:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	12/28/09 14:31	
1,1,2-Trichloroethane	ug/L	ND	5.0	12/28/09 14:31	
1,1-Dichloroethane	ug/L	ND	5.0	12/28/09 14:31	
1,1-Dichloroethene	ug/L	ND	5.0	12/28/09 14:31	
1,2-Dichlorobenzene	ug/L	ND	5.0	12/28/09 14:31	
1,2-Dichloroethane	ug/L	ND	5.0	12/28/09 14:31	
1,2-Dichloropropane	ug/L	ND	5.0	12/28/09 14:31	
1,3-Dichlorobenzene	ug/L	ND	5.0	12/28/09 14:31	
1,4-Dichlorobenzene	ug/L	ND	5.0	12/28/09 14:31	
2-Butanone (MEK)	ug/L	ND	10.0	12/28/09 14:31	
2-Hexanone	ug/L	ND	10.0	12/28/09 14:31	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	12/28/09 14:31	
Acetone	ug/L	ND	10.0	12/28/09 14:31	
Benzene	ug/L	ND	1.0	12/28/09 14:31	
Bromodichloromethane	ug/L	ND	5.0	12/28/09 14:31	
Bromoform	ug/L	ND	5.0	12/28/09 14:31	
Bromomethane	ug/L	ND	5.0	12/28/09 14:31	
Carbon disulfide	ug/L	ND	5.0	12/28/09 14:31	
Carbon tetrachloride	ug/L	ND	5.0	12/28/09 14:31	
Chlorobenzene	ug/L	ND	5.0	12/28/09 14:31	
Chloroethane	ug/L	ND	5.0	12/28/09 14:31	
Chloroform	ug/L	ND	5.0	12/28/09 14:31	
Chloromethane	ug/L	ND	5.0	12/28/09 14:31	
cis-1,2-Dichloroethene	ug/L	ND	5.0	12/28/09 14:31	
cis-1,3-Dichloropropene	ug/L	ND	5.0	12/28/09 14:31	
Dibromochloromethane	ug/L	ND	5.0	12/28/09 14:31	
Ethylbenzene	ug/L	ND	5.0	12/28/09 14:31	
m&p-Xylene	ug/L	ND	5.0	12/28/09 14:31	
Methylene Chloride	ug/L	ND	5.0	12/28/09 14:31	
o-Xylene	ug/L	ND	5.0	12/28/09 14:31	
Styrene	ug/L	ND	5.0	12/28/09 14:31	
Tetrachloroethene	ug/L	ND	5.0	12/28/09 14:31	
Toluene	ug/L	ND	5.0	12/28/09 14:31	
trans-1,2-Dichloroethene	ug/L	ND	5.0	12/28/09 14:31	
trans-1,3-Dichloropropene	ug/L	ND	5.0	12/28/09 14:31	
Trichloroethene	ug/L	ND	5.0	12/28/09 14:31	
Trichlorofluoromethane	ug/L	ND	5.0	12/28/09 14:31	
Vinyl chloride	ug/L	ND	1.0	12/28/09 14:31	
1,2-Dichloroethane-d4 (S)	%	83	70-130	12/28/09 14:31	
4-Bromofluorobenzene (S)	%	97	70-130	12/28/09 14:31	
Toluene-d8 (S)	%	90	70-130	12/28/09 14:31	

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ACCREDITED IN ACCORDANCE WITH nelac

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

QUALITY CONTROL DATA

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

LABORATORY CONTROL SAMPLE: 127343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	16.1	81	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	16.3	81	70-130	
1,1,2-Trichloroethane	ug/L	20	17.9	89	70-130	
1,1-Dichloroethane	ug/L	20	16.2	81	70-130	
1,1-Dichloroethene	ug/L	20	19.0	95	70-130	
1,2-Dichlorobenzene	ug/L	20	19.6	98	70-130	
1,2-Dichloroethane	ug/L	20	16.5	82	70-130	
1,2-Dichloropropane	ug/L	20	16.9	85	70-130	
1,3-Dichlorobenzene	ug/L	20	19.2	96	70-130	
1,4-Dichlorobenzene	ug/L	20	19.4	97	70-130	
2-Butanone (MEK)	ug/L	20	12.0	60	70-130	L0
2-Hexanone	ug/L	20	14.8	74	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	14.8	74	70-130	
Acetone	ug/L	20	14.1	71	70-130	
Benzene	ug/L	20	17.7	89	70-130	
Bromodichloromethane	ug/L	20	17.1	86	70-130	
Bromoform	ug/L	20	16.9	84	70-130	
Bromomethane	ug/L	20	31.3	157	70-130	L0
Carbon disulfide	ug/L	20	24.5	122	70-130	
Carbon tetrachloride	ug/L	20	15.4	77	70-130	
Chlorobenzene	ug/L	20	18.7	93	70-130	
Chloroethane	ug/L	20	14.5	72	70-130	
Chloroform	ug/L	20	17.2	86	70-130	
Chloromethane	ug/L	20	16.5	82	70-130	
cis-1,2-Dichloroethene	ug/L	20	16.1	80	70-130	
cis-1,3-Dichloropropene	ug/L	20	15.6	78	70-130	
Dibromochloromethane	ug/L	20	16.9	85	70-130	
Ethylbenzene	ug/L	20	18.7	94	70-130	
m&p-Xylene	ug/L	40	38.3	96	70-130	
Methylene Chloride	ug/L	20	18.1	91	70-130	
o-Xylene	ug/L	20	18.9	95	70-130	
Styrene	ug/L	20	18.6	93	70-130	
Tetrachloroethene	ug/L	20	19.8	99	70-130	
Toluene	ug/L	20	18.6	93	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.8	84	70-130	
trans-1,3-Dichloropropene	ug/L	20	14.1	71	70-130	
Trichloroethene	ug/L	20	18.7	94	70-130	
Trichlorofluoromethane	ug/L	20	13.9	69	70-130	L0
Vinyl chloride	ug/L	20	17.8	89	70-130	
1,2-Dichloroethane-d4 (S)	%			86	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			90	70-130	

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QUALIFIERS

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

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

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Greensburg, PA 15601
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex-Hope 41568453.10000
Pace Project No.: 3020335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
3020335001	**PRE-CARB**	EPA 8260	MSV/4687		
3020335002	**PRIMARY-EFF**	EPA 8260	MSV/4687		
3020335003	**POST-CARB**	EPA 8260	MSV/4687		
3020335004	**TB-01**	EPA 8260	MSV/4687		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: | of |

1355744

Section A Required Client Information:

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

Section B Required Project Information:

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

Section C Invoice Information:

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

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

Site Location STATE: NY

Section D Required Client Information

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 3020335
1	PRE-CARB	WT	G			12.22.09	1110		3				X					X		001
2	PRIMARY-EFF						1115		3				X					X		002
3	POST-CARB						1120		3				X					X		003
4	POST-CARB						1150		3				X					X		
5	POST-CARB						1220		3				X					X		
6	POST-CARB						1250		3				X					X		
7	TB-01	W	G			12.22.09			2				X					X		004
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
COMPOSITE FOUR(4) POST-CARB	[signature] / UKS	12.22.09	1320	Fed Ex	12.22.09	~1320				
SAMPLES IN LAB AND		Fed Ex –		[signature] Urbowitz Pace	12-23-09	1240	1.6	Y	N	Y
REPORT AS POST-CARB										
COMPOSITE										

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

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12.22.09

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

Chen

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS Project # 3020335

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

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

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

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

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

Cooler Temperature 1.6 Biological Tissue Is Frozen: Yes No

Date and Initials of person examining contents: Chen 12-23

Temp should be above freezing to 6°C

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

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: Raelyn Sylvester Date: 12/23/09

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

F-ALL-C003-3, 11September2006