URS

August 18, 2014

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

Re: 2014 Semi-Annual Performance Monitoring Report
Essex/Hope Site, Jamestown, New York
URS Project No. 41569831

Dear Mr. Moore:

This letter report is a summary of the January through June 2014 performance monitoring period for the remedial system at the above-referenced site. This report is submitted in accordance with the revised Performance Monitoring Plan (PMP) prepared by URS Corporation (URS) dated March 2014.

GENERAL OPERATIONS

The groundwater treatment system remained shut down during most of the first half of 2014 due to major operations and maintenance activities including treatment system transfer pump repair, water line repairs, plant heating system repairs, and a broken carbon vessel. During the reporting period, nearly 277,000 gallons of groundwater were treated and discharged to the City of Jamestown POTW. The following sections summarize the data on groundwater drawdown and chemical analyses.

GROUNDWATER DRAWDOWN EVALUATION

Water level measurements were collected on March 25, 2014 and July 21, 2014 (postponed pending all Recovery Wells returning to normal operations) for the deep and shallow water-bearing zones. Water level data is provided in Appendix A of this report. Groundwater elevation contour maps illustrating drawdown conditions during pumping are provided as Figures 1 through 4. Groundwater elevations and drawdowns were consistent with previous data under the same site conditions.

WATER QUALITY RESULTS

Performance monitoring for the first half of 2014 includes semi-annual sampling of the recovery wells during the 2nd Quarter and monthly influent and effluent sampling of the treatment system. Monthly treatment system sampling was collected only during June 2014. While the system was in operations partially during March/April 2014, at the proposed time of sampling in early April, the system required shut down again due to a broken carbon vessel.

URS Corporation
Foster Plaza 6
681 Andersen Drive, Suite 400
Pittsburgh, PA 15220
Phone: 412.503.4700
Fax: 412.503.4704

Normal operations resumed on June 5, 2014 and RW-6D resumed operations on June 27, 2014, following electrical repairs. Recovery Well sampling was conducted on June 27, 2014, with the exception of RW-6D which was sampled on July 21, 2014. Samples were analyzed by Pace Analytical of Greensburg, Pennsylvania for volatile organic compounds (VOC's) by US EPA Method 8260B. The recovery well analytical results are summarized in Table 1. Laboratory reports are included as Appendix B.

In accordance with the City of Jamestown Board of Public Utilities (BPU) Industrial Wastewater Discharge Permit Number 26 (Permit), the treatment system is monitored for pH and VOCs to ensure compliance with the discharge requirements. Sampling points include the influent, primary carbon effluent and secondary carbon effluent (discharge to POTW). These points are sampled each month and reported to the Jamestown BPU on a semi-annual basis. Groundwater treatment system data for January through June 2014 is summarized on Tables 2 through 4. These tables represent the system influent, individual carbon vessel effluent and post carbon (system discharge to POTW) concentrations. There were no discharge exceedances during this reporting period.

This letter report has been prepared to satisfy the reporting requirements stipulated in the Performance Monitoring Plan and to evaluate remediation effectiveness on a semi-annual basis. If you have any questions or desire additional information, please do not hesitate to call me at (412) 503-4672.

Sincerely,

URS

Mark Dowiak/US

Mark Dowiak, P.E.
Project Manager
URS Dow Business Unit

Enclosure

cc: Tim King – The Dow Chemical Company
Matt Forcucci – New York State Department of Health
Patrick Foster – Division of Environmental Enforcement
Carlo J. Montisano – Custom Production Manufacturing, Inc.
Valerie Sibeto – URS

URS Corporation
Foster Plaza 6
681 Andersen Drive, Suite 400
Pittsburgh, PA 15220
Phone: 412.503.4700
Fax: 412.503.4704

TABLES

Table 1
Semi-Annual Recovery Well Sampling
2nd Quarter Analytical Results
June 27, 2014

Volatile Organic Compounds (Method 8260A) - µg/L	Site GW RAOs	RW-1S	RW-2S	RW-2D	RW-6D	RW-3S
Acetone		ND	ND	ND	**125,000**	ND
Benzene		ND	ND	**8.8**	**26.4**	**5.4**
2-Butanone		ND	ND	ND	**824**	ND
Carbon Disulfide		ND	ND	ND	ND	ND
Chloromethane		ND	ND	ND	ND	ND
Isopropylbenzene (Cumene)		ND	ND	ND	ND	**2.9**
1,1-Dichloroethane		ND	ND	ND	ND	ND
1,1-Dichloroethene		ND	ND	**21.5**	**47.1**	ND
cis-1,2-Dichloroethene		**173**	**20.0**	**4,070**	**21,000**	ND
trans-1,2-Dichloroethene	**5**	ND	ND	**89.9**	**179**	ND
Ethylbenzene	**5**	ND	ND	ND	ND	ND
4-Methyl-2-pentanone		ND	ND	ND	ND	ND
Methylene Chloride		ND	ND	ND	ND	ND
Tetrachloroethene		ND	ND	ND	ND	ND
Toluene	**5**	ND	ND	ND	ND	ND
Trichloroethene	**5**	**58.8**	**10.8**	**2,260**	**1,990**	ND
Vinyl Chloride	**5**	**10.1**	ND	**532**	**3,940**	ND
Xylenes (total)	**5**	ND	ND	ND	ND	**9.9**

Notes:
Site GW RAOs = Site Groundwater Remedial Action Objectives
µg/l = Micrograms per liter
ND = Not Detected/Below minimum laboratory reporting limit

Note: RW-6D was sampled on July 21, 2014.

Table 2
POTW Monthly Monitoring Summary
2014 System Pre-Carbon
Volatile Organic Compounds (µg/L)

Sample Date			**31-Mar-14**			**27-Jun-14**						
Acetone			NS			ND						
Benzene			NS			**4.2**						
Bromomethane			NS			ND						
2-Butanone			NS			ND						
Chloroform			NS			ND						
Chloromethane			NS			ND						
Isopropylbenzene (Cumene)			NS			ND						
1,1-Dichloroethane			NS			ND						
1,1-Dichloroethene			NS			**9.0**						
cis-1,2-Dichloroethene			NS			**1,680**						
trans-1,2-Dichloroethene			NS			**15.0**						
Ethylbenzene			NS			ND						
Methylene Chloride			NS			ND						
Toluene			NS			ND						
Trichloroethene			NS			**1,120**						
Vinyl Chloride			NS			**292**						
Total Xylenes			NS			ND						
Pre-Carbon TOTAL VOCs	**0**	**0**	**0**	**0**	**0**	**3,120**	**0**	**0**	**0**	**0**	**0**	**0**

Notes:

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

The system was shut down much of the first half for major O&M activities inlcluding transfer pump repairs, water line repairs, plant heating system repairs, and a broken carbon vessel.
The return to normal operations of the system commenced on June 5, 2014 and RW-6D commenced operations on June 27, 2014.
Note: March sample was to be collected in the beginning of April, however, at the time of sampling, the system required a shut down due to a damaged carbon vessel therefore, no sample was collected.

Table 3
POTW Monthly Monitoring Summary
2014 System Primary Carbon Effluent
Volatile Organic Compounds (µg/L)

Sample Date			**31-Mar-14**			**27-Jun-14**						
Acetone			NS			ND						
Benzene			NS			ND						
2-Butanone			NS			ND						
Chloroform			NS			ND						
Chloromethane			NS			ND						
Isopropylbenzene (Cumene)			NS			ND						
1,1-Dichloroethane			NS			ND						
1,1-Dichloroethene			NS			ND						
cis-1,2-Dichloroethene			NS			**471**						
trans-1,2-Dichloroethene			NS			ND						
Ethylbenzene			NS			ND						
Methylene Chloride			NS			ND						
Toluene			NS			ND						
Trichloroethene			NS			ND						
Vinyl Chloride			NS			**226**						
Total Xylenes			NS			ND						
Primary-Carbon TOTAL VOCs	**0**	**0**	**0**	**0**	**0**	**697**	**0**	**0**	**0**	**0**	**0**	**0**

Notes:

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

The system was shut down much of the first half for major O&M activities inlcluding transfer pump repairs, water line repairs, plant heating system repairs, and a broken carbon vessel.
The return to normal operations of the system commenced on June 5, 2014 and RW-6D commenced operations on June 27, 2014.
Note: March sample was to be collected in the beginning of April, however, at the time of sampling, the system required a shut down due to a damaged carbon vessel therefore, no sample was collected.

Table 4
POTW Monthly Monitoring Summary
2014 System Post Carbon Effluent
Volatile Organic Compounds (µg/L)

Sample Date			31-Mar-14			27-Jun-14						
Acetone			NS			ND						
Benzene			NS			ND						
2-Butanone			NS			ND						
Chloroform			NS			ND						
Chloromethane			NS			ND						
Isopropylbenzene (Cumene)			NS			ND						
1,1-Dichloroethane			NS			ND						
1,1-Dichloroethene			NS			ND						
cis-1,2-Dichloroethene			NS			**9.0**						
trans-1,2-Dichloroethene			NS			ND						
Ethylbenzene			NS			ND						
Methylene Chloride			NS			ND						
Toluene			NS			ND						
Trichloroethene			NS			ND						
Vinyl Chloride			NS			**186**						
Total Xylenes			NS			ND						
Post-Carbon TOTAL VOCs	**0**	**0**	**0**	**0**	**0**	**195**	**0**	**0**	**0**	**0**	**0**	**0**
Post-Carbon TOTAL TTOs	**0**	**0**	**0**	**0**	**0**	**195**	**0**	**0**	**0**	**0**	**0**	**0**

Notes:

ND = Not detected/Below minimum laboratory reporting limit
NS = Not sampled
µg/L = micrograms per liter
POTW Discharge Limit = 2,130 ug/L Total Toxic Organics (TTOs)

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

The system was shut down much of the first half for major O&M activities inlcluding transfer pump repairs, water line repairs, plant heating system repairs, and a broken carbon vessel.
The return to normal operations of the system commenced on June 5, 2014 and RW-6D commenced operations on June 27, 2014.
Note: March sample was to be collected in the beginning of April, however, at the time of sampling, the system required a shut down due to a damaged carbon vessel therefore, no sample was collected.

FIGURES

NORTH

PLANT NORTH

TRUE NORTH

TCE, ug/l

MW-16S

Hopes Windows

MW-14S

MW-15S

HOPKINS AVENUE

Hopkins Avenue

BIGELOW AVENUE

MW-18

RW-2S

GP-5S

PZ-1S

MW-6

NPL Area

MW-7

MW-19S

Parking Lot

PZ-6S

Johnson Machine

No data in this area

MW-11

GP-1S

GP-3S

MW-10

RW-1S

CPM Bldg #5

Treatment Plant Bldg

GP-2S

PZ-5S

Bituminous Pavement

MW-12

MW-20

RW-5S

MW-26S

MW-27S

Hut

Former USTs (5)

Conc Pad

HW-10

RW-3S

MW-2

MW-23S

HW-8

MW-24S

Concrete Ramp

MW-28S

Parking Lot-Concrete

HW-9

West Building (Formerly Master Machine)

MW-29S

MW-13

Rollform

0 20 40

1269 1268 1267 1266 1265 1270 1271 1272

Essex Specialty Products, Inc.
Essex/Hope Site, Jamestown, NY
URS 41569831

Figure 1- Shallow Groundwater Potentiometric Surface Map March 25, 2014

NORTH

PLANT NORTH

TRUE NORTH

TCE, ug/l

MW-16S

Hopes Windows

1267

MW-14S

MW-15S

1267

1268

HOPKINS AVENUE

Hopkins Avenue

RW-2S

GP-5S

MW-18

PZ-1S

MW-6

NPL Area

MW-7

1269

1267

1267

1264

1263

1265

1266

BIGELOW AVENUE

MW-19S

Parking Lot

PZ-6S

GP-1S

GP-3S

MW-11

MW-10

No data
in this area

RW-1S

1268

1270

1269

1268

1267

Johnson
Machine

GP-2S

MW-20

CPM Bldg #5

PZ-5S

Bituminous
Pavement

Treatment
Plant Bldg

MW-12

1269

MW-26S

RW-5S

MW-27S

Hut

Former USTs (5)

1270

Conc Pad

HW-10

RW-3S

MW-23S

HW-8

MW-2

MW-24S

Concrete Ramp

0 20 40

Rollform

1271

Parking Lot-
Concrete

1271

HW-9

MW-28S

1269

1272

West Building
(Formerly
Master Machine)

1270

MW-29S

1270

MW-13

Essex Specialty Products, Inc.
Essex/Hope Site, Jamestown, NY
URS 41569831

Figure 2- Shallow Groundwater Potentiometric Surface Map July 21, 2014

NORTH

PLANT NORTH

TRUE NORTH

TCE, ug/l

MW-16D

Hopes Windows

1265

1264

1263

1262

1261

1260

1258

1254

1250

1266

1266.5

1267

MW-14D

MW-15D

MW-22D

HOPKINS AVENUE

Hopkins Avenue

BIGELOW AVENUE

MW-17

VP-8D

GP-5D

RW-2D

MW-21D

RW-6D

PZ-7D

MW-25D

PZ-1D

PZ-2D

NPL Area

MW-7D

MW-19D

MW-11D

MW-8

PZ-4D

PZ-3D

GP-3D

GP-4D

No data
in this area

VP-5D

RW-1D

Parking Lot

PZ-6D

VP-6D

Johnson
Machine

CPM Bldg #8

Treatment
Plant Bldg

GP-2D

Bituminous
Pavement

PZ-5D

PZ-8D

PZ-9D

PZ-11D

Hut

PZ-10D

Former USTs (5)

Conc Pad

Concrete Ramp

0 20 40

Parking Lot-
Concrete

MW-23D

Rollform

West Building
(Formerly
Master Machine)

VP-7D

Essex Specialty Products, Inc.
Essex/Hope Site, Jamestown, NY
URS 41569831

Figure 3- Deep Groundwater Potentiometric Surface Map March 25, 2014

NORTH

PLANT NORTH

TRUE NORTH

TCE, ug/l

MW-16D

Hopes Windows

1264.5

1264

1263

1262

1261

1260

1258

1256

1254

1252

MW-14D

MW-15D

1265

MW-22D

HOPKINS

AVENUE

1264.5

1264

Hopkins Avenue

BIGELOW

AVENUE

VP-8D

GP-5D

RW-2D

MW-17

MW-21D

RW-6D

PZ-7D

MW-25D

PZ-1D

PZ-2D

NPL Area

MW-7D

1266

MW-19D

1263

MW-11D

MW-8

PZ-4D

1267

1261

GP-4D

PZ-3D

GP-3D

Parking Lot

1265

1264.5

1264

No data
in this area

VP-5D

RW-1D

1262

1263

1264

1264.5

1265

Bituminous
Pavement

Treatment
Plant Bldg

GP-2D

CPM Bldg #5

PZ-6D

VP-6D

Johnson
Machine

1266

1266

PZ-5D

PZ-8D

PZ-9D

PZ-11D

Hut

PZ-10D

Former USTs (5)

Conc Pad

Concrete Ramp

0 20 40

Parking Lot-
Concrete

MW-23D

1266

Rollform

West Building
(Formerly
Master Machine)

VP-7D

Essex Specialty Products, Inc.
Essex/Hope Site, Jamestown, NY
URS 41569831

Figure 4- Deep Groundwater Potentiometric Surface Map July 21, 2014

APPENDIX A

Water Level Measurement Data

APPENDIX A

2014 Water Level Data
Essex/Hope Site
Jamestown, NY

Monitoring Location	Northing	Easting	Reference Elevation (ft msl)	Depth to Top of Screen	Depth to Bottom of Screen	Screened Zone	March 25, 2014			July 21, 2014		
							Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)	Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)
MW-1	9758.7161	10383.6499	1280.48		20.0	Shallow	NA	NA	NA	NA	NA	NA
MW-2	9837.1531	9959.6857	1279.87		16.0	Shallow	8.87	NA	1271.00	8.85	NA	1271.02
MW-4	9792.3277	9900.7631	1281.02	13.0	18.0	Shallow	9.55	NA	1271.47	9.35	NA	1271.67
MW-5	9789.6222	9631.761	1280.82	9.5	20.0	Shallow	NA	NA	NA	NA	NA	NA
MW-6	9977.1197	10118.8762	1277.98			Shallow	8.96	NA	1269.02	9.31	NA	1268.67
MW-7	9976.6467	10175.6797	1277.73	10.0	20.0	Shallow	8.56	NA	1269.17	8.39	NA	1269.34
MW-7D	9973.2593	10174.8524	1277.8	35.0	45.0	Deep	16.43	NA	1261.37	17.11	NA	1260.69
MW-7DD	9970.8547	10176.2698	1277.74	90.0	100.0	Glacial Till	NA	NA	NA	NA	NA	NA
MW-8	9959.6089	10127.6898	1277.97	39.6	49.6	Deep	15.51	NA	1262.46	16.44	NA	1261.53
MW-10	9932.4702	10185.7078	1277.94	8.5	18.5	Shallow	8.24	NA	1269.70	8.14	NA	1269.80
MW-11	9937.9912	10101.7016	1277.75	5.0	15.0	Shallow	8.54	NA	1269.21	9.17	NA	1268.58
MW-11D	9942.3792	10101.1482	1277.85	35.0	45.0	Deep	14.46	NA	1263.39	15.29	NA	1262.56
MW-12	9883.0874	10104.9278	1278.18	4.0	14.0	Shallow	8.44	NA	1269.74	8.61	NA	1269.57
MW-13	9752.0619	10240.2934	1278.12	8.0	18.0	Shallow	9.45	NA	1268.67	9.70	NA	1268.42
MW-14S	10048.7753	10135.5198	1280.25	10.0	20.0	Shallow	12.00	NA	1268.25	13.73	NA	1266.52
MW-14D	10049.5051	10129.1897	1280.01	40.0	50.0	Deep	15.83	NA	1264.18	16.60	NA	1263.41
MW-15S	10051.8272	10254.4862	1279.55	10.0	20.0	Shallow	11.14	NA	1268.41	12.76	NA	1266.79
MW-15D	10045.5611	10255.205	1279.46	34.0	44.0	Deep	14.24	NA	1265.22	15.16	NA	1264.30
MW-16S	10146.7788	10236.8582	1279.32	7.0	17.0	Shallow	11.03	NA	1268.29	12.41	NA	1266.91
MW-16D	10143.9497	10236.6005	1279.05	36.0	46.0	Deep	13.36	NA	1265.69	14.22	NA	1264.83
MW-17	9987.6315	9995.5207	1278.7			Deep	NA	NA	NA	NA	NA	NA
MW-18	9994.6655	10459.2207	1275.49		20.0	Shallow	7.43	NA	1268.06	9.79	NA	1265.70
MW-19S	9956.1454	10358.207	1276.82	9.0	19.0	Shallow	NA	NA	NA	9.78	NA	1267.04
MW-19D	9951.569	10355.9748	1276.21	34.0	44.0	Deep	NA	NA	NA	13.54	NA	1262.67
MW-20	9894.7336	10224.5128	1278.56	6.5	11.5	Shallow	7.28	NA	1271.28	NA	NA	NA
MW-21D	9995.0094	10314.801	1276.12	31.5	41.0	Deep	NA	NA	NA	10.96	NA	1265.16
MW-22D	10048.1687	10391.3548	1276.04	32.5	42.0	Deep	8.21	NA	1267.83	10.12	NA	1265.92
MW-23S	9824.696	10265.6365	1277.85	5.0	14.5	Shallow	6.30	NA	1271.55	6.14	NA	1271.71
MW-23D	9818.3152	10265.6675	1277.89	28.0	37.5	Deep	11.09	NA	1266.80	11.88	NA	1266.01
MW-24S	9817.1277	10186.2119	1278.77	5.0	14.5	Shallow	7.91	NA	1270.86	7.66	NA	1271.11

APPENDIX A

2014 Water Level Data
Essex/Hope Site
Jamestown, NY

Monitoring Location	Northing	Easting	Reference Elevation (ft msl)	Depth to Top of Screen	Depth to Bottom of Screen	Screened Zone	March 25, 2014			July 21, 2014		
							Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)	Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)
MW-25S	9995.6	10572.35	1272.76	7.0	17.0	Shallow	8.56	NA	1264.20	10.25	NA	1262.51
MW-25D	9995.46	10565.28	1273.41	31.0	41.0	Deep	9.48	NA	1263.93	10.30	NA	1263.11
MW-26S	9861.3519	10371.3241	1279.422	5.0	15.0	Shallow	8.12	NA	1271.30	9.02	NA	1270.40
MW-27S	9849.63382	10452.2197	1278.864	10.0	20.0	Shallow	8.80	NA	1270.06	9.76	NA	1269.10
MW-28S	9810.84281	10451.4089	1279.25	7.0	17.0	Shallow	8.74	NA	1270.51	9.49	NA	1269.76
MW-29S	9786.06533	10188.6419	1280.7	4.0	14.0	Shallow	8.13	NA	1272.57	7.94	NA	1272.76
HW-6	NA	NA	NA	NA	NA	Shallow	11.40	NA	NA	11.49	NA	NA
HW-8	9834.664	10312.0885	1277.81	6.0	16.0	Shallow	6.21	NA	1271.60	6.10	NA	1271.71
HW-9	9810.5264	10313.3873	1280.78	6.0	16.0	Shallow	9.59	NA	1271.19	9.55	NA	1271.23
HW-10	9837.2976	9966.7406	1279.55	7.0	17.0	Shallow	NA	NA	NA	NA	NA	NA
RW-1S	9932.3606	10136.0515	1275.81	10.5	16.0	Shallow	9.90	11.50	1265.91	10.52	11.50	1265.29
RW-1D	9925.9898	10121.7689	1276.34	32.0	57.0	Deep	13.72	NA	1262.62	14.61	NA	1261.73
RW-2S	9982.9501	10151.7112	1276.33	10.0	15.5	Shallow	9.49	12.70	1266.84	10.24	12.70	1266.09
RW-2D	9982.6088	10169.3122	1276.35	27.0	42.0	Deep	34.61	36.90	1241.74	36.86	36.90	1239.49
RW-3S	9837.0894	9990.9663	1278.14	9.0	13.5	Shallow	8.40	8.80	1269.74	8.96	8.80	1269.18
RW-5S	9863.4298	10330.7462	1277.29	7.0	10.0	Shallow	NA	NA	NA	NA	NA	NA
RW-6D	9994.04	10367.91	1277.33			Deep	NA	NA	NA	14.46	NA	1262.87
GP-1S	9942.4384	10203.1085	1278.83	8.0	12.8	Shallow	NA	NA	NA	NA	NA	NA
GP-2S	9899.8775	10204.1632	1278.46	2.6	12.6	Shallow	NA	NA	NA	NA	NA	NA
GP-2D	9899.7358	10207.9807	1278.56	30.0	34.8	Deep	NA	NA	NA	NA	NA	NA
GP-3S	9941.2543	10263.8898	1278.59	4.0	14.0	Shallow	NA	NA	NA	NA	NA	NA
GP-3D	9936.9027	10264.588	1278.62	34.0	38.8	Deep	NA	NA	NA	NA	NA	NA
GP-4S	9940.86*	10154.97*	1278.06	10.8	15.8	Shallow	NA	NA	NA	8.98	NA	1269.08
GP-4D	9942.1743	10152.2232	1277.95	39.0	43.8	Deep	15.59	NA	1262.36	16.52	NA	1261.43
GP-5S	9994.7299	10200.2055	1277.44	7.0	11.8	Shallow	NA	NA	NA	NA	NA	NA
GP-5D	9994.8642	10202.9906	1276.81	36.0	40.8	Deep	NA	NA	NA	NA	NA	NA
PZ-1S	9981.8469	10169.3122	1277.77			Shallow	NA	NA	NA	NA	NA	NA
PZ-1D	9980.4294	10171.2636	1277.64			Deep	NA	NA	NA	NA	NA	NA
PZ-2D	9979.5627	10172.4761	1277.55			Deep	NA	NA	NA	NA	NA	NA
PZ-3D	9942.0414	10199.2937	1278.8	20.0	40.0	Deep	NA	NA	NA	NA	NA	NA

APPENDIX A

2014 Water Level Data
Essex/Hope Site
Jamestown, NY

Monitoring Location	Northing	Easting	Reference Elevation (ft msl)	Depth to Top of Screen	Depth to Bottom of Screen	Screened Zone	March 25, 2014			July 21, 2014		
							Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)	Depth to Water	Depth to Top of Pump	Groundwater Elevation (ft msl)
PZ-4D	9946.2326	10195.679	1278.71			Deep	NA	NA	NA	NA	NA	NA
PZ-5S	9897.7381	10330.7876	1276.42	5.5	12.0	Shallow	6.56	NA	1269.86	7.31	NA	1269.11
PZ-5D	9894.5731	10329.7148	1276.4	21.0	42.0	Deep	9.12	NA	1267.28	9.86	NA	1266.54
PZ-6S	9932.2079	10344.4895	1276.61	8.5	13.5	Shallow	NA	NA	NA	8.98	NA	1267.63
PZ-6D	9929.8004	10343.4742	1276.62	25.5	45.5	Deep	NA	NA	NA	10.41	NA	1266.21
PZ-7D	9994.5452	10463.2465	1275.68	22.0	42.0	Deep	NA	NA	NA	10.37	NA	1265.31
PZ-8D	9856.4908	10237.8118	1278.12	21.0	41.0	Deep	NA	NA	NA	NA	NA	NA
PZ-9D	9856.2398	10291.1658	1277.3	19.0	39.0	Deep	NA	NA	NA	NA	NA	NA
PZ-10D	9858.9821	10366.4236	1277.52	26.5	46.5	Deep	NA	NA	NA	NA	NA	NA
PZ-11D	9863.0677	10452.8989	1276.63	21.3	41.3	Deep	NA	NA	NA	NA	NA	NA
VP-5D	9925.1052	10103.0141	1277.88	12.5	34.3	Deep	11.83	NA	1266.05	11.74	NA	1266.14
VP-6S	9928.8123	10423.4628	1276.48	18.3	24.0	Deep upper gravel	NA	NA	NA	10.04	NA	1266.44
VP-6D	9932.5744	10424.1378	1276.6	29.5	39.5	Deep	8.92	NA	1267.68	10.31	NA	1266.29
VP-7D	9758.4881	10337.7133	1278.64	20.4	39.3	Deep	11.20	NA	1267.44	13.01	NA	1265.63
VP-8D	9994.6178	10197.8133	1277.15	20.0	39.0	Deep	NA	NA	NA	11.66	NA	1265.49

Notes:

NM = Not Measure
NA = Not Applicable

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

Multiple water levels were not obtained in March 2014 due to frozen water, snow, and ice.

Appendix B

Laboratory Certificates of Analysis

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

July 22, 2014

Mr. Mark Dowiak
URS Corporation
Foster Plaza 6
681 Andersen Drive, Suite 400
Pittsburgh, PA 15220

RE: Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123815

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on June 28, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Jacquelyn Collins for
Timothy Reed
timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

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

CERTIFICATIONS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123815

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: PA014572014-4
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123815

Sample: RW-3S **Lab ID: 30123815001** Collected: 06/27/14 11:40 Received: 06/28/14 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	10.0	1		07/10/14 15:42	67-64-1	
Benzene	**5.4**	ug/L	1.0	1		07/10/14 15:42	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/10/14 15:42	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/10/14 15:42	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/10/14 15:42	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/10/14 15:42	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/10/14 15:42	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/10/14 15:42	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/10/14 15:42	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/10/14 15:42	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/10/14 15:42	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/10/14 15:42	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/10/14 15:42	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 15:42	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 15:42	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 15:42	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/10/14 15:42	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/10/14 15:42	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/10/14 15:42	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/10/14 15:42	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/10/14 15:42	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/10/14 15:42	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/10/14 15:42	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/10/14 15:42	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/10/14 15:42	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/10/14 15:42	591-78-6	
Isopropylbenzene (Cumene)	**2.9**	ug/L	1.0	1		07/10/14 15:42	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		07/10/14 15:42	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/10/14 15:42	108-10-1	
Styrene	ND	ug/L	5.0	1		07/10/14 15:42	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/10/14 15:42	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/10/14 15:42	127-18-4	
Toluene	ND	ug/L	5.0	1		07/10/14 15:42	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/10/14 15:42	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/10/14 15:42	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/10/14 15:42	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/10/14 15:42	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		07/10/14 15:42	75-01-4	
m&p-Xylene	**9.9**	ug/L	5.0	1		07/10/14 15:42	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/10/14 15:42	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	85-115	1		07/10/14 15:42	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	77-119	1		07/10/14 15:42	17060-07-0	
Toluene-d8 (S)	96	%	85-115	1		07/10/14 15:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123815

Sample: RW-2D **Lab ID: 30123815002** Collected: 06/27/14 11:50 Received: 06/28/14 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	10.0	1		07/10/14 16:54	67-64-1	
Benzene	**8.8**	ug/L	1.0	1		07/10/14 16:54	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/10/14 16:54	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/10/14 16:54	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/10/14 16:54	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/10/14 16:54	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/10/14 16:54	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/10/14 16:54	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/10/14 16:54	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/10/14 16:54	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/10/14 16:54	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/10/14 16:54	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/10/14 16:54	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 16:54	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 16:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 16:54	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/10/14 16:54	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/10/14 16:54	107-06-2	
1,1-Dichloroethene	**21.5**	ug/L	5.0	1		07/10/14 16:54	75-35-4	
cis-1,2-Dichloroethene	**4070**	ug/L	100	20		07/10/14 17:18	156-59-2	
trans-1,2-Dichloroethene	**89.9**	ug/L	5.0	1		07/10/14 16:54	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/10/14 16:54	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/10/14 16:54	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/10/14 16:54	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/10/14 16:54	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/10/14 16:54	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/10/14 16:54	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		07/10/14 16:54	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/10/14 16:54	108-10-1	
Styrene	ND	ug/L	5.0	1		07/10/14 16:54	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/10/14 16:54	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/10/14 16:54	127-18-4	
Toluene	ND	ug/L	5.0	1		07/10/14 16:54	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/10/14 16:54	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/10/14 16:54	79-00-5	
Trichloroethene	**2260**	ug/L	100	20		07/10/14 17:18	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/10/14 16:54	75-69-4	
Vinyl chloride	**532**	ug/L	20.0	20		07/10/14 17:18	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/10/14 16:54	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/10/14 16:54	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	85-115	1		07/10/14 16:54	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	77-119	1		07/10/14 16:54	17060-07-0	
Toluene-d8 (S)	97	%	85-115	1		07/10/14 16:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123815

Sample: RW-2S **Lab ID: 30123815003** Collected: 06/27/14 12:00 Received: 06/28/14 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	10.0	1		07/10/14 16:06	67-64-1	
Benzene	ND	ug/L	1.0	1		07/10/14 16:06	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/10/14 16:06	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/10/14 16:06	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/10/14 16:06	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/10/14 16:06	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/10/14 16:06	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/10/14 16:06	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/10/14 16:06	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/10/14 16:06	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/10/14 16:06	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/10/14 16:06	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/10/14 16:06	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 16:06	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 16:06	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 16:06	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/10/14 16:06	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/10/14 16:06	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/10/14 16:06	75-35-4	
cis-1,2-Dichloroethene	**20.0**	ug/L	5.0	1		07/10/14 16:06	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/10/14 16:06	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/10/14 16:06	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/10/14 16:06	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/10/14 16:06	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/10/14 16:06	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/10/14 16:06	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/10/14 16:06	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		07/10/14 16:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/10/14 16:06	108-10-1	
Styrene	ND	ug/L	5.0	1		07/10/14 16:06	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/10/14 16:06	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/10/14 16:06	127-18-4	
Toluene	ND	ug/L	5.0	1		07/10/14 16:06	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/10/14 16:06	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/10/14 16:06	79-00-5	
Trichloroethene	**10.8**	ug/L	5.0	1		07/10/14 16:06	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/10/14 16:06	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		07/10/14 16:06	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/10/14 16:06	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/10/14 16:06	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	85-115	1		07/10/14 16:06	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	77-119	1		07/10/14 16:06	17060-07-0	
Toluene-d8 (S)	96	%	85-115	1		07/10/14 16:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123815

Sample: RW-1S **Lab ID: 30123815004** Collected: 06/27/14 12:10 Received: 06/28/14 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	10.0	1		07/10/14 16:29	67-64-1	
Benzene	ND	ug/L	1.0	1		07/10/14 16:29	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/10/14 16:29	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/10/14 16:29	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/10/14 16:29	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/10/14 16:29	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/10/14 16:29	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/10/14 16:29	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/10/14 16:29	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/10/14 16:29	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/10/14 16:29	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/10/14 16:29	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/10/14 16:29	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 16:29	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 16:29	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 16:29	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/10/14 16:29	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/10/14 16:29	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/10/14 16:29	75-35-4	
cis-1,2-Dichloroethene	**173**	ug/L	5.0	1		07/10/14 16:29	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/10/14 16:29	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/10/14 16:29	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/10/14 16:29	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/10/14 16:29	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/10/14 16:29	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/10/14 16:29	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/10/14 16:29	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		07/10/14 16:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/10/14 16:29	108-10-1	
Styrene	ND	ug/L	5.0	1		07/10/14 16:29	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/10/14 16:29	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/10/14 16:29	127-18-4	
Toluene	ND	ug/L	5.0	1		07/10/14 16:29	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/10/14 16:29	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/10/14 16:29	79-00-5	
Trichloroethene	**58.8**	ug/L	5.0	1		07/10/14 16:29	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/10/14 16:29	75-69-4	
Vinyl chloride	**10.1**	ug/L	1.0	1		07/10/14 16:29	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/10/14 16:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/10/14 16:29	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	85-115	1		07/10/14 16:29	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	77-119	1		07/10/14 16:29	17060-07-0	
Toluene-d8 (S)	99	%	85-115	1		07/10/14 16:29	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123815

Sample: TB-01 **Lab ID: 30123815005** Collected: 06/27/14 00:01 Received: 06/28/14 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	10.0	1		07/10/14 11:37	67-64-1	
Benzene	ND	ug/L	1.0	1		07/10/14 11:37	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/10/14 11:37	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/10/14 11:37	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/10/14 11:37	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/10/14 11:37	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/10/14 11:37	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/10/14 11:37	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/10/14 11:37	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/10/14 11:37	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/10/14 11:37	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/10/14 11:37	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/10/14 11:37	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 11:37	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 11:37	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 11:37	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/10/14 11:37	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/10/14 11:37	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/10/14 11:37	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/10/14 11:37	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/10/14 11:37	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/10/14 11:37	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/10/14 11:37	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/10/14 11:37	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/10/14 11:37	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/10/14 11:37	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/10/14 11:37	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		07/10/14 11:37	75-09-2	B,C9
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/10/14 11:37	108-10-1	
Styrene	ND	ug/L	5.0	1		07/10/14 11:37	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/10/14 11:37	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/10/14 11:37	127-18-4	
Toluene	ND	ug/L	5.0	1		07/10/14 11:37	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/10/14 11:37	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/10/14 11:37	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/10/14 11:37	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/10/14 11:37	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		07/10/14 11:37	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/10/14 11:37	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/10/14 11:37	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	85-115	1		07/10/14 11:37	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	77-119	1		07/10/14 11:37	17060-07-0	
Toluene-d8 (S)	96	%	85-115	1		07/10/14 11:37	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123815

QC Batch: MSV/20249 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV
Associated Lab Samples: 30123815001, 30123815002, 30123815003, 30123815004, 30123815005

METHOD BLANK: 755876 Matrix: Water
Associated Lab Samples: 30123815001, 30123815002, 30123815003, 30123815004, 30123815005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	07/10/14 10:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/10/14 10:24	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/10/14 10:24	
1,1-Dichloroethane	ug/L	ND	1.0	07/10/14 10:24	
1,1-Dichloroethene	ug/L	ND	1.0	07/10/14 10:24	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/10/14 10:24	
1,2-Dichloroethane	ug/L	ND	1.0	07/10/14 10:24	
1,2-Dichloropropane	ug/L	ND	1.0	07/10/14 10:24	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/10/14 10:24	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/10/14 10:24	
2-Butanone (MEK)	ug/L	ND	10.0	07/10/14 10:24	
2-Hexanone	ug/L	ND	10.0	07/10/14 10:24	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/10/14 10:24	
Acetone	ug/L	ND	10.0	07/10/14 10:24	
Benzene	ug/L	ND	1.0	07/10/14 10:24	
Bromodichloromethane	ug/L	ND	1.0	07/10/14 10:24	
Bromoform	ug/L	ND	1.0	07/10/14 10:24	
Bromomethane	ug/L	ND	1.0	07/10/14 10:24	
Carbon disulfide	ug/L	ND	1.0	07/10/14 10:24	
Carbon tetrachloride	ug/L	ND	1.0	07/10/14 10:24	
Chlorobenzene	ug/L	ND	1.0	07/10/14 10:24	
Chloroethane	ug/L	ND	1.0	07/10/14 10:24	
Chloroform	ug/L	ND	1.0	07/10/14 10:24	
Chloromethane	ug/L	ND	1.0	07/10/14 10:24	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/10/14 10:24	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/10/14 10:24	
Dibromochloromethane	ug/L	ND	1.0	07/10/14 10:24	
Ethylbenzene	ug/L	ND	1.0	07/10/14 10:24	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	07/10/14 10:24	
m&p-Xylene	ug/L	ND	2.0	07/10/14 10:24	
Methylene Chloride	ug/L	1.2	1.0	07/10/14 10:24	B,C9
o-Xylene	ug/L	ND	1.0	07/10/14 10:24	
Styrene	ug/L	ND	1.0	07/10/14 10:24	
Tetrachloroethene	ug/L	ND	1.0	07/10/14 10:24	
Toluene	ug/L	ND	1.0	07/10/14 10:24	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/10/14 10:24	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/10/14 10:24	
Trichloroethene	ug/L	ND	1.0	07/10/14 10:24	
Trichlorofluoromethane	ug/L	ND	1.0	07/10/14 10:24	
Vinyl chloride	ug/L	ND	1.0	07/10/14 10:24	
1,2-Dichloroethane-d4 (S)	%	106	77-119	07/10/14 10:24	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123815

METHOD BLANK: 755876 Matrix: Water
Associated Lab Samples: 30123815001, 30123815002, 30123815003, 30123815004, 30123815005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	99	85-115	07/10/14 10:24	
Toluene-d8 (S)	%	100	85-115	07/10/14 10:24	

LABORATORY CONTROL SAMPLE: 755877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.2	96	62-125	
1,1,2,2-Tetrachloroethane	ug/L	20	16.5	83	61-117	
1,1,2-Trichloroethane	ug/L	20	19.8	99	72-119	
1,1-Dichloroethane	ug/L	20	17.8	89	63-123	
1,1-Dichloroethene	ug/L	20	16.6	83	57-127	
1,2-Dichlorobenzene	ug/L	20	17.2	86	70-116	
1,2-Dichloroethane	ug/L	20	18.1	90	62-125	
1,2-Dichloropropane	ug/L	20	16.9	85	69-115	
1,3-Dichlorobenzene	ug/L	20	16.6	83	71-118	
1,4-Dichlorobenzene	ug/L	20	17.7	89	67-119	
2-Butanone (MEK)	ug/L	20	21.7	109	48-136	
2-Hexanone	ug/L	20	17.8	89	52-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.9	99	57-124	
Acetone	ug/L	20	23.5	118	49-138	
Benzene	ug/L	20	16.6	83	66-122	
Bromodichloromethane	ug/L	20	17.2	86	63-118	
Bromoform	ug/L	20	20.9	104	46-130	
Bromomethane	ug/L	20	13.8	69	10-175	
Carbon disulfide	ug/L	20	27.5	137	59-142	
Carbon tetrachloride	ug/L	20	19.2	96	55-126	
Chlorobenzene	ug/L	20	19.0	95	70-121	
Chloroethane	ug/L	20	21.4	107	24-161	
Chloroform	ug/L	20	17.7	89	62-126	
Chloromethane	ug/L	20	20.1	101	37-147	
cis-1,2-Dichloroethene	ug/L	20	17.5	87	64-121	
cis-1,3-Dichloropropene	ug/L	20	15.7	79	64-118	
Dibromochloromethane	ug/L	20	20.1	101	60-120	
Ethylbenzene	ug/L	20	18.6	93	69-119	
Isopropylbenzene (Cumene)	ug/L	20	16.9	84	68-126	
m&p-Xylene	ug/L	40	36.0	90	70-124	
Methylene Chloride	ug/L	20	18.1	90	59-128	
o-Xylene	ug/L	20	18.1	91	67-123	
Styrene	ug/L	20	18.7	93	67-146	
Tetrachloroethene	ug/L	20	18.7	94	62-125	
Toluene	ug/L	20	18.1	91	72-115	
trans-1,2-Dichloroethene	ug/L	20	17.2	86	59-122	
trans-1,3-Dichloropropene	ug/L	20	16.1	80	64-120	
Trichloroethene	ug/L	20	19.5	97	62-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123815

LABORATORY CONTROL SAMPLE: 755877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichlorofluoromethane	ug/L	20	23.2	116	54-158	
Vinyl chloride	ug/L	20	20.9	104	52-145	
1,2-Dichloroethane-d4 (S)	%			102	77-119	
4-Bromofluorobenzene (S)	%			101	85-115	
Toluene-d8 (S)	%			102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 756092 756093

Parameter	Units	30123743001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	25.8	25.6	129	128	62-125	1	M0
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.7	16.7	83	84	61-117	0	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.9	20.0	105	100	72-119	4	
1,1-Dichloroethane	ug/L	ND	20	20	23.8	23.5	119	118	63-123	1	
1,1-Dichloroethene	ug/L	ND	20	20	24.2	24.3	121	121	57-127	0	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.0	18.1	90	91	70-116	1	
1,2-Dichloroethane	ug/L	ND	20	20	22.9	22.7	115	114	62-125	1	
1,2-Dichloropropane	ug/L	ND	20	20	20.3	19.5	102	98	69-115	4	
1,3-Dichlorobenzene	ug/L	ND	20	20	17.5	17.2	88	86	71-118	2	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.7	18.3	93	91	67-119	2	
2-Butanone (MEK)	ug/L	ND	20	20	20.8	20.8	104	104	48-136	0	
2-Hexanone	ug/L	ND	20	20	14.8	14.8	74	74	52-130	0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	16.8	17.8	84	89	57-124	6	
Acetone	ug/L	ND	20	20	21.4	22.4	107	112	49-138	5	
Benzene	ug/L	ND	20	20	20.7	20.4	104	102	66-122	1	
Bromodichloromethane	ug/L	ND	20	20	19.4	19.6	97	98	63-118	1	
Bromoform	ug/L	ND	20	20	20.8	20.6	104	103	46-130	1	
Bromomethane	ug/L	ND	20	20	13.0	15.0	65	75	10-175	14	
Carbon disulfide	ug/L	ND	20	20	25.2	27.8	126	139	59-142	10	
Carbon tetrachloride	ug/L	ND	20	20	26.5	26.0	132	130	55-126	2	M0
Chlorobenzene	ug/L	ND	20	20	21.4	21.2	107	106	70-121	1	
Chloroethane	ug/L	ND	20	20	25.7	25.7	128	128	24-161	0	
Chloroform	ug/L	74.4	20	20	97.9	98.5	117	120	62-126	1	
Chloromethane	ug/L	ND	20	20	22.7	23.1	114	116	37-147	2	
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.3	22.9	116	114	64-121	2	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.2	18.6	96	93	64-118	3	
Dibromochloromethane	ug/L	ND	20	20	21.5	21.3	107	107	60-120	1	
Ethylbenzene	ug/L	ND	20	20	20.7	21.0	103	105	69-119	1	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.1	19.3	96	96	68-126	1	
m&p-Xylene	ug/L	ND	40	40	41.8	40.7	104	102	70-124	3	
Methylene Chloride	ug/L	ND	20	20	22.0	21.9	110	110	59-128	0	
o-Xylene	ug/L	ND	20	20	20.1	19.6	100	98	67-123	2	
Styrene	ug/L	ND	20	20	20.7	19.8	103	99	67-146	5	
Tetrachloroethene	ug/L	ND	20	20	23.5	23.3	117	117	62-125	1	
Toluene	ug/L	ND	20	20	20.5	20.9	103	105	72-115	2	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123815

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 756092 756093

Parameter	Units	30123743001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
trans-1,2-Dichloroethene	ug/L	ND	20	20	23.7	23.8	119	119	59-122	0	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.7	18.7	93	93	64-120	0	
Trichloroethene	ug/L	ND	20	20	22.5	22.7	112	114	62-125	1	
Trichlorofluoromethane	ug/L	ND	20	20	30.5	32.1	152	160	54-158	5	M0
Vinyl chloride	ug/L	ND	20	20	24.6	25.5	123	128	52-145	4	
1,2-Dichloroethane-d4 (S)	%						97	103	77-119		
4-Bromofluorobenzene (S)	%						97	96	85-115		
Toluene-d8 (S)	%						95	95	85-115		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123815

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
C9	Common Laboratory Contaminant.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123815

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30123815001	**RW-3S**	EPA 8260B	MSV/20249		
30123815002	**RW-2D**	EPA 8260B	MSV/20249		
30123815003	**RW-2S**	EPA 8260B	MSV/20249		
30123815004	**RW-1S**	EPA 8260B	MSV/20249		
30123815005	**TB-01**	EPA 8260B	MSV/20249		

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical®
www.pacelabs.com

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

Page: | of |

1717908

Section A Required Client Information:

Company: URS CORP
Address: FOSTER PLAZA 6, STE. 400
661 ANDERSEN DR
PITTSBURGH, PA 15220
Email To:
Phone: 412-503-4700 Fax: 412-503-4701
Requested Due Date/TAT: STANDARD

Section B Required Project Information:

Report To: MARK DOWIAK
Copy To: VALERIE SIBETO
Purchase Order No.: 41569831
Project Name: ESSEX/HOPE JAMESTOWN
Project Number: 41569831

Section C Invoice Information:

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

REGULATORY AGENCY

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

Site Location STATE: NY

Section D Required Client Information

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

Matrix Codes MATRIX / CODE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	RW-3S	WT	G			6.27.14	1140		3				X					X		001
2	RW-2D						1150		3				X					X		002
3	RW-2S						1200		3				X					X		003
4	RW-1S						1210		3				X					X		004
5	TB-01	WT	G			6.23.14	—		2				X					X		005
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
SEMI-ANNUAL RW SAMPLING - 2ND QTR 2014	URS	6.27.14	~1600	Alyssa R. Muchanoy	6/20/14	1020	2.6	Y	N	Y

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): ~~6.27.14~~ 6.27.14 (VS)

*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.

ORIGINAL

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

Pace Analytical

Sample Condition Upon Receipt

Client Name: URS

Project # 30123815

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

Tracking #: 802339326593

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no **Biological Tissue is Frozen:** Yes No

Packing Material: Bubble Wrap ✓ Bubble Bags ____ None ____ Other ziplocs

Thermometer Used 6 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun ARM 10/28/14

Cooler Temp.: Observed Temp.: 2.7 °C Correction Factor: -0.1 °C Final Temp: 2.6 °C

Date and Initials of person examining contents: 2.6 ARM 10/28/14

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: ARM Lot # of added preservative:
Samples checked for dechlorination:	☐Yes ☐No ☐N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☐N/A	15. 1 Trip Blank
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** _____

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

Pace Analytical

30123815

Project Number: _____

Client Name: URS

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
001	WT													3										
↓ 004	↓ WT													3										
005	WT													1										

SCURF Back (C016-4 15May2012).xls

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

July 28, 2014

Mr. Mark Dowiak
URS Corporation
Foster Plaza 6
681 Andersen Drive, Suite 400
Pittsburgh, PA 15220

RE: Project: Essex Jamestown
Pace Project No.: 30125464

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on July 22, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Timothy Reed
timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

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

CERTIFICATIONS

Project: Essex Jamestown
Pace Project No.: 30125464

Pennsylvania Certification IDs
1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: PA014572014-4
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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

ANALYTICAL RESULTS

Project: Essex Jamestown
Pace Project No.: 30125464

Sample: RW-6D **Lab ID: 30125464001** Collected: 07/21/14 14:45 Received: 07/22/14 09:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260B							
Acetone	**125000**	ug/L	10000	1000		07/25/14 13:55	67-64-1	
Benzene	**26.4**	ug/L	1.0	1		07/24/14 13:40	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/24/14 13:40	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/24/14 13:40	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/24/14 13:40	74-83-9	
2-Butanone (MEK)	**824**	ug/L	200	20		07/25/14 13:30	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/24/14 13:40	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/24/14 13:40	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/24/14 13:40	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/24/14 13:40	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/24/14 13:40	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/24/14 13:40	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/24/14 13:40	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/24/14 13:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/24/14 13:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/24/14 13:40	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/24/14 13:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/24/14 13:40	107-06-2	
1,1-Dichloroethene	**47.1**	ug/L	5.0	1		07/24/14 13:40	75-35-4	
cis-1,2-Dichloroethene	**21000**	ug/L	500	100		07/24/14 14:05	156-59-2	
trans-1,2-Dichloroethene	**179**	ug/L	5.0	1		07/24/14 13:40	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/24/14 13:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/24/14 13:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/24/14 13:40	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/24/14 13:40	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/24/14 13:40	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/24/14 13:40	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		07/24/14 13:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/24/14 13:40	108-10-1	
Styrene	ND	ug/L	5.0	1		07/24/14 13:40	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/24/14 13:40	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/24/14 13:40	127-18-4	
Toluene	ND	ug/L	5.0	1		07/24/14 13:40	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/24/14 13:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/24/14 13:40	79-00-5	
Trichloroethene	**1990**	ug/L	100	20		07/25/14 13:30	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/24/14 13:40	75-69-4	
Vinyl chloride	**3940**	ug/L	20.0	20		07/25/14 13:30	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/24/14 13:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/24/14 13:40	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	85-115	1		07/24/14 13:40	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	77-119	1		07/24/14 13:40	17060-07-0	
Toluene-d8 (S)	99	%	85-115	1		07/24/14 13:40	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Essex Jamestown
Pace Project No.: 30125464

QC Batch: MSV/20421 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV
Associated Lab Samples: 30125464001

METHOD BLANK: 763671 Matrix: Water
Associated Lab Samples: 30125464001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	07/24/14 11:39	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/24/14 11:39	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/24/14 11:39	
1,1-Dichloroethane	ug/L	ND	1.0	07/24/14 11:39	
1,1-Dichloroethene	ug/L	ND	1.0	07/24/14 11:39	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/24/14 11:39	
1,2-Dichloroethane	ug/L	ND	1.0	07/24/14 11:39	
1,2-Dichloropropane	ug/L	ND	1.0	07/24/14 11:39	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/24/14 11:39	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/24/14 11:39	
2-Butanone (MEK)	ug/L	ND	10.0	07/24/14 11:39	
2-Hexanone	ug/L	ND	10.0	07/24/14 11:39	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/24/14 11:39	
Acetone	ug/L	ND	10.0	07/24/14 11:39	
Benzene	ug/L	ND	1.0	07/24/14 11:39	
Bromodichloromethane	ug/L	ND	1.0	07/24/14 11:39	
Bromoform	ug/L	ND	1.0	07/24/14 11:39	
Bromomethane	ug/L	ND	1.0	07/24/14 11:39	
Carbon disulfide	ug/L	ND	1.0	07/24/14 11:39	
Carbon tetrachloride	ug/L	ND	1.0	07/24/14 11:39	
Chlorobenzene	ug/L	ND	1.0	07/24/14 11:39	
Chloroethane	ug/L	ND	1.0	07/24/14 11:39	
Chloroform	ug/L	ND	1.0	07/24/14 11:39	
Chloromethane	ug/L	ND	1.0	07/24/14 11:39	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/24/14 11:39	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/24/14 11:39	
Dibromochloromethane	ug/L	ND	1.0	07/24/14 11:39	
Ethylbenzene	ug/L	ND	1.0	07/24/14 11:39	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	07/24/14 11:39	
m&p-Xylene	ug/L	ND	2.0	07/24/14 11:39	
Methylene Chloride	ug/L	ND	1.0	07/24/14 11:39	
o-Xylene	ug/L	ND	1.0	07/24/14 11:39	
Styrene	ug/L	ND	1.0	07/24/14 11:39	
Tetrachloroethene	ug/L	ND	1.0	07/24/14 11:39	
Toluene	ug/L	ND	1.0	07/24/14 11:39	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/24/14 11:39	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/24/14 11:39	
Trichloroethene	ug/L	ND	1.0	07/24/14 11:39	
Trichlorofluoromethane	ug/L	ND	1.0	07/24/14 11:39	
Vinyl chloride	ug/L	ND	1.0	07/24/14 11:39	
1,2-Dichloroethane-d4 (S)	%	101	77-119	07/24/14 11:39	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Essex Jamestown
Pace Project No.: 30125464

METHOD BLANK: 763671 Matrix: Water
Associated Lab Samples: 30125464001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	90	85-115	07/24/14 11:39	
Toluene-d8 (S)	%	100	85-115	07/24/14 11:39	

LABORATORY CONTROL SAMPLE: 763672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.3	101	62-125	
1,1,2,2-Tetrachloroethane	ug/L	20	18.0	90	61-117	
1,1,2-Trichloroethane	ug/L	20	19.1	95	72-119	
1,1-Dichloroethane	ug/L	20	20.3	102	63-123	
1,1-Dichloroethene	ug/L	20	19.7	98	57-127	
1,2-Dichlorobenzene	ug/L	20	18.2	91	70-116	
1,2-Dichloroethane	ug/L	20	21.1	105	62-125	
1,2-Dichloropropane	ug/L	20	18.9	95	69-115	
1,3-Dichlorobenzene	ug/L	20	18.4	92	71-118	
1,4-Dichlorobenzene	ug/L	20	17.7	89	67-119	
2-Butanone (MEK)	ug/L	20	21.0	105	48-136	
2-Hexanone	ug/L	20	21.1	105	52-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	23.9	119	57-124	
Acetone	ug/L	20	19.1	95	49-138	
Benzene	ug/L	20	18.2	91	66-122	
Bromodichloromethane	ug/L	20	19.5	97	63-118	
Bromoform	ug/L	20	19.2	96	46-130	
Bromomethane	ug/L	20	15.0	75	10-175	
Carbon disulfide	ug/L	20	22.6	113	59-142	
Carbon tetrachloride	ug/L	20	14.4	72	55-126	
Chlorobenzene	ug/L	20	18.9	94	70-121	
Chloroethane	ug/L	20	18.7	93	24-161	
Chloroform	ug/L	20	18.9	94	62-126	
Chloromethane	ug/L	20	17.6	88	37-147	
cis-1,2-Dichloroethene	ug/L	20	20.4	102	64-121	
cis-1,3-Dichloropropene	ug/L	20	19.4	97	64-118	
Dibromochloromethane	ug/L	20	16.0	80	60-120	
Ethylbenzene	ug/L	20	18.9	94	69-119	
Isopropylbenzene (Cumene)	ug/L	20	20.2	101	68-126	
m&p-Xylene	ug/L	40	37.3	93	70-124	
Methylene Chloride	ug/L	20	21.2	106	59-128	
o-Xylene	ug/L	20	17.8	89	67-123	
Styrene	ug/L	20	15.9	80	67-146	
Tetrachloroethene	ug/L	20	18.2	91	62-125	
Toluene	ug/L	20	19.2	96	72-115	
trans-1,2-Dichloroethene	ug/L	20	20.1	100	59-122	
trans-1,3-Dichloropropene	ug/L	20	19.3	96	64-120	
Trichloroethene	ug/L	20	19.1	96	62-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Essex Jamestown
Pace Project No.: 30125464

LABORATORY CONTROL SAMPLE: 763672

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichlorofluoromethane	ug/L	20	18.3	91	54-158	
Vinyl chloride	ug/L	20	22.0	110	52-145	
1,2-Dichloroethane-d4 (S)	%			106	77-119	
4-Bromofluorobenzene (S)	%			95	85-115	
Toluene-d8 (S)	%			95	85-115	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: Essex Jamestown
Pace Project No.: 30125464

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: MSV/20421

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Essex Jamestown
Pace Project No.: 30125464

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30125464001	**RW-6D**	EPA 8260B	MSV/20421		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1835767

Section A Required Client Information:
Company: URS CORP
Address: 681 ANDERSEN DR. FOSTER PLAZA 6, STE. 400 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.: 41569831
Project Name: ESSEX JAMESTOWN
Project Number: 41569831

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
NPDES / GROUND WATER / DRINKING WATER
UST / RCRA / OTHER ______

Site Location STATE: NY

Section D Required Client Information

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	RW-6D	WT	G	—	—	7.21.14	1445		3				X					X		001
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

30125464

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SEMI-ANNUAL RW SAMPLING (2ND QTR 2014)	Val / URS	7.21.14	1530	[signature]	7.21.14	1530				
				Alyna R. Mahoney	7/22/14	0930	0.1	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: VALERIE SIBETO
SIGNATURE of SAMPLER: Valerie
DATE Signed (MM/DD/YY): 7.21.14

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

Sample Condition Upon Receipt

Pace Analytical

Client Name: URS

Project # 30125464

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

Tracking #: 802339326847

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no **Biological Tissue is Frozen:** Yes No

Packing Material: Bubble Wrap ✓ Bubble Bags ___ None ___ Other _____

Thermometer Used 7 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temp.: Observed Temp.: 0.2 °C Correction Factor: -0.1 °C Final Temp: 0.1 °C

Date and Initials of person examining contents: 7/22/14 ARM

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: ARM Lot # of added preservative:
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☐Yes	☑No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased): _____				

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ **Date:** 7-23-14

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)

Project Number: 30125464

Client Name: URS

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
001	WT													3									

SCURF Back (C016-4 15May2012).xls

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

July 22, 2014

Mr. Mark Dowiak
URS Corporation
Foster Plaza 6
681 Andersen Drive, Suite 400
Pittsburgh, PA 15220

RE: Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123816

Dear Mr. Dowiak:
Enclosed are the analytical results for sample(s) received by the laboratory on June 28, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Report reissued 7/22/14 to include the results that were not appearing in the initial report.

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

Sincerely,

Jacquelyn Collins for
Timothy Reed
timothy.reed@pacelabs.com
Project Manager

Enclosures

cc: Ms. Valerie Sibeto, URS Corporation

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

CERTIFICATIONS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123816

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4 Greensburg, PA 15601
ACLASS DOD-ELAP Accreditation #: ADE-1544
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California/TNI Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E87683
Guam/PADEP Certification
Hawaii/PADEP Certification
Idaho Certification
Illinois/PADEP Certification
Indiana/PADEP Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235
Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188
Utah/TNI Certification #: PA014572014-4
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin/PADEP Certification
Wyoming Certification #: 8TMS-Q

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

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123816

Sample: PRE-CARB **Lab ID: 30123816001** Collected: 06/27/14 09:50 Received: 06/28/14 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	10.0	1		07/10/14 17:43	67-64-1	
Benzene	**4.2**	ug/L	1.0	1		07/10/14 17:43	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/10/14 17:43	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/10/14 17:43	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/10/14 17:43	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/10/14 17:43	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/10/14 17:43	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/10/14 17:43	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/10/14 17:43	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/10/14 17:43	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/10/14 17:43	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/10/14 17:43	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/10/14 17:43	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 17:43	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 17:43	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 17:43	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/10/14 17:43	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/10/14 17:43	107-06-2	
1,1-Dichloroethene	**9.0**	ug/L	5.0	1		07/10/14 17:43	75-35-4	
cis-1,2-Dichloroethene	**1680**	ug/L	250	50		07/10/14 18:07	156-59-2	
trans-1,2-Dichloroethene	**15.0**	ug/L	5.0	1		07/10/14 17:43	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/10/14 17:43	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/10/14 17:43	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/10/14 17:43	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/10/14 17:43	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/10/14 17:43	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/10/14 17:43	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		07/10/14 17:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/10/14 17:43	108-10-1	
Styrene	ND	ug/L	5.0	1		07/10/14 17:43	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/10/14 17:43	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/10/14 17:43	127-18-4	
Toluene	ND	ug/L	5.0	1		07/10/14 17:43	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/10/14 17:43	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/10/14 17:43	79-00-5	
Trichloroethene	**1120**	ug/L	250	50		07/10/14 18:07	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/10/14 17:43	75-69-4	
Vinyl chloride	**292**	ug/L	1.0	1		07/10/14 17:43	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/10/14 17:43	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/10/14 17:43	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	85-115	1		07/10/14 17:43	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	77-119	1		07/10/14 17:43	17060-07-0	
Toluene-d8 (S)	97	%	85-115	1		07/10/14 17:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123816

Sample: PRIMARY-EFF **Lab ID: 30123816002** Collected: 06/27/14 09:55 Received: 06/28/14 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	10.0	1		07/10/14 18:31	67-64-1	
Benzene	ND	ug/L	1.0	1		07/10/14 18:31	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/10/14 18:31	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/10/14 18:31	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/10/14 18:31	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/10/14 18:31	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/10/14 18:31	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/10/14 18:31	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/10/14 18:31	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/10/14 18:31	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/10/14 18:31	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/10/14 18:31	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/10/14 18:31	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 18:31	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 18:31	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 18:31	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/10/14 18:31	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/10/14 18:31	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/10/14 18:31	75-35-4	
cis-1,2-Dichloroethene	**471**	ug/L	250	50		07/10/14 18:56	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/10/14 18:31	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/10/14 18:31	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/10/14 18:31	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/10/14 18:31	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/10/14 18:31	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/10/14 18:31	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/10/14 18:31	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		07/10/14 18:31	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/10/14 18:31	108-10-1	
Styrene	ND	ug/L	5.0	1		07/10/14 18:31	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/10/14 18:31	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/10/14 18:31	127-18-4	
Toluene	ND	ug/L	5.0	1		07/10/14 18:31	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/10/14 18:31	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/10/14 18:31	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/10/14 18:31	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/10/14 18:31	75-69-4	
Vinyl chloride	**226**	ug/L	1.0	1		07/10/14 18:31	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/10/14 18:31	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/10/14 18:31	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	85-115	1		07/10/14 18:31	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	77-119	1		07/10/14 18:31	17060-07-0	
Toluene-d8 (S)	92	%	85-115	1		07/10/14 18:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123816

Sample: POST-CARB **Lab ID: 30123816003** Collected: 06/27/14 10:00 Received: 06/28/14 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	10.0	1		07/10/14 19:20	67-64-1	
Benzene	ND	ug/L	1.0	1		07/10/14 19:20	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/10/14 19:20	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/10/14 19:20	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/10/14 19:20	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/10/14 19:20	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/10/14 19:20	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/10/14 19:20	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/10/14 19:20	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/10/14 19:20	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/10/14 19:20	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/10/14 19:20	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/10/14 19:20	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 19:20	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 19:20	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 19:20	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/10/14 19:20	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/10/14 19:20	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/10/14 19:20	75-35-4	
cis-1,2-Dichloroethene	**9.0**	ug/L	5.0	1		07/10/14 19:20	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/10/14 19:20	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/10/14 19:20	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/10/14 19:20	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/10/14 19:20	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/10/14 19:20	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/10/14 19:20	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/10/14 19:20	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		07/10/14 19:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/10/14 19:20	108-10-1	
Styrene	ND	ug/L	5.0	1		07/10/14 19:20	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/10/14 19:20	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/10/14 19:20	127-18-4	
Toluene	ND	ug/L	5.0	1		07/10/14 19:20	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/10/14 19:20	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/10/14 19:20	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/10/14 19:20	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/10/14 19:20	75-69-4	
Vinyl chloride	**186**	ug/L	1.0	1		07/10/14 19:20	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/10/14 19:20	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/10/14 19:20	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	100	%	85-115	1		07/10/14 19:20	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	77-119	1		07/10/14 19:20	17060-07-0	
Toluene-d8 (S)	98	%	85-115	1		07/10/14 19:20	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123816

Sample: TB-01 **Lab ID: 30123816007** Collected: 06/27/14 00:01 Received: 06/28/14 10:20 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260B							
Acetone	ND	ug/L	10.0	1		07/10/14 12:02	67-64-1	
Benzene	ND	ug/L	1.0	1		07/10/14 12:02	71-43-2	
Bromodichloromethane	ND	ug/L	5.0	1		07/10/14 12:02	75-27-4	
Bromoform	ND	ug/L	5.0	1		07/10/14 12:02	75-25-2	
Bromomethane	ND	ug/L	5.0	1		07/10/14 12:02	74-83-9	
2-Butanone (MEK)	ND	ug/L	10.0	1		07/10/14 12:02	78-93-3	
Carbon disulfide	ND	ug/L	5.0	1		07/10/14 12:02	75-15-0	
Carbon tetrachloride	ND	ug/L	5.0	1		07/10/14 12:02	56-23-5	
Chlorobenzene	ND	ug/L	5.0	1		07/10/14 12:02	108-90-7	
Chloroethane	ND	ug/L	5.0	1		07/10/14 12:02	75-00-3	
Chloroform	ND	ug/L	5.0	1		07/10/14 12:02	67-66-3	
Chloromethane	ND	ug/L	5.0	1		07/10/14 12:02	74-87-3	
Dibromochloromethane	ND	ug/L	5.0	1		07/10/14 12:02	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 12:02	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 12:02	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	5.0	1		07/10/14 12:02	106-46-7	
1,1-Dichloroethane	ND	ug/L	5.0	1		07/10/14 12:02	75-34-3	
1,2-Dichloroethane	ND	ug/L	5.0	1		07/10/14 12:02	107-06-2	
1,1-Dichloroethene	ND	ug/L	5.0	1		07/10/14 12:02	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	5.0	1		07/10/14 12:02	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	5.0	1		07/10/14 12:02	156-60-5	
1,2-Dichloropropane	ND	ug/L	5.0	1		07/10/14 12:02	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	5.0	1		07/10/14 12:02	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	5.0	1		07/10/14 12:02	10061-02-6	
Ethylbenzene	ND	ug/L	5.0	1		07/10/14 12:02	100-41-4	
2-Hexanone	ND	ug/L	10.0	1		07/10/14 12:02	591-78-6	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		07/10/14 12:02	98-82-8	
Methylene Chloride	ND	ug/L	5.0	1		07/10/14 12:02	75-09-2	B
4-Methyl-2-pentanone (MIBK)	ND	ug/L	10.0	1		07/10/14 12:02	108-10-1	
Styrene	ND	ug/L	5.0	1		07/10/14 12:02	100-42-5	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	1		07/10/14 12:02	79-34-5	
Tetrachloroethene	ND	ug/L	5.0	1		07/10/14 12:02	127-18-4	
Toluene	ND	ug/L	5.0	1		07/10/14 12:02	108-88-3	
1,1,1-Trichloroethane	ND	ug/L	5.0	1		07/10/14 12:02	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	5.0	1		07/10/14 12:02	79-00-5	
Trichloroethene	ND	ug/L	5.0	1		07/10/14 12:02	79-01-6	
Trichlorofluoromethane	ND	ug/L	5.0	1		07/10/14 12:02	75-69-4	
Vinyl chloride	ND	ug/L	1.0	1		07/10/14 12:02	75-01-4	
m&p-Xylene	ND	ug/L	5.0	1		07/10/14 12:02	179601-23-1	
o-Xylene	ND	ug/L	5.0	1		07/10/14 12:02	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	98	%	85-115	1		07/10/14 12:02	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	77-119	1		07/10/14 12:02	17060-07-0	
Toluene-d8 (S)	97	%	85-115	1		07/10/14 12:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123816

QC Batch: MSV/20249 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV
Associated Lab Samples: 30123816001, 30123816002, 30123816003, 30123816007

METHOD BLANK: 755876 Matrix: Water
Associated Lab Samples: 30123816001, 30123816002, 30123816003, 30123816007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	07/10/14 10:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	07/10/14 10:24	
1,1,2-Trichloroethane	ug/L	ND	1.0	07/10/14 10:24	
1,1-Dichloroethane	ug/L	ND	1.0	07/10/14 10:24	
1,1-Dichloroethene	ug/L	ND	1.0	07/10/14 10:24	
1,2-Dichlorobenzene	ug/L	ND	1.0	07/10/14 10:24	
1,2-Dichloroethane	ug/L	ND	1.0	07/10/14 10:24	
1,2-Dichloropropane	ug/L	ND	1.0	07/10/14 10:24	
1,3-Dichlorobenzene	ug/L	ND	1.0	07/10/14 10:24	
1,4-Dichlorobenzene	ug/L	ND	1.0	07/10/14 10:24	
2-Butanone (MEK)	ug/L	ND	10.0	07/10/14 10:24	
2-Hexanone	ug/L	ND	10.0	07/10/14 10:24	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	07/10/14 10:24	
Acetone	ug/L	ND	10.0	07/10/14 10:24	
Benzene	ug/L	ND	1.0	07/10/14 10:24	
Bromodichloromethane	ug/L	ND	1.0	07/10/14 10:24	
Bromoform	ug/L	ND	1.0	07/10/14 10:24	
Bromomethane	ug/L	ND	1.0	07/10/14 10:24	
Carbon disulfide	ug/L	ND	1.0	07/10/14 10:24	
Carbon tetrachloride	ug/L	ND	1.0	07/10/14 10:24	
Chlorobenzene	ug/L	ND	1.0	07/10/14 10:24	
Chloroethane	ug/L	ND	1.0	07/10/14 10:24	
Chloroform	ug/L	ND	1.0	07/10/14 10:24	
Chloromethane	ug/L	ND	1.0	07/10/14 10:24	
cis-1,2-Dichloroethene	ug/L	ND	1.0	07/10/14 10:24	
cis-1,3-Dichloropropene	ug/L	ND	1.0	07/10/14 10:24	
Dibromochloromethane	ug/L	ND	1.0	07/10/14 10:24	
Ethylbenzene	ug/L	ND	1.0	07/10/14 10:24	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	07/10/14 10:24	
m&p-Xylene	ug/L	ND	2.0	07/10/14 10:24	
Methylene Chloride	ug/L	1.2	1.0	07/10/14 10:24	B,C9
o-Xylene	ug/L	ND	1.0	07/10/14 10:24	
Styrene	ug/L	ND	1.0	07/10/14 10:24	
Tetrachloroethene	ug/L	ND	1.0	07/10/14 10:24	
Toluene	ug/L	ND	1.0	07/10/14 10:24	
trans-1,2-Dichloroethene	ug/L	ND	1.0	07/10/14 10:24	
trans-1,3-Dichloropropene	ug/L	ND	1.0	07/10/14 10:24	
Trichloroethene	ug/L	ND	1.0	07/10/14 10:24	
Trichlorofluoromethane	ug/L	ND	1.0	07/10/14 10:24	
Vinyl chloride	ug/L	ND	1.0	07/10/14 10:24	
1,2-Dichloroethane-d4 (S)	%	106	77-119	07/10/14 10:24	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123816

METHOD BLANK: 755876 Matrix: Water
Associated Lab Samples: 30123816001, 30123816002, 30123816003, 30123816007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
4-Bromofluorobenzene (S)	%	99	85-115	07/10/14 10:24	
Toluene-d8 (S)	%	100	85-115	07/10/14 10:24	

LABORATORY CONTROL SAMPLE: 755877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.2	96	62-125	
1,1,2,2-Tetrachloroethane	ug/L	20	16.5	83	61-117	
1,1,2-Trichloroethane	ug/L	20	19.8	99	72-119	
1,1-Dichloroethane	ug/L	20	17.8	89	63-123	
1,1-Dichloroethene	ug/L	20	16.6	83	57-127	
1,2-Dichlorobenzene	ug/L	20	17.2	86	70-116	
1,2-Dichloroethane	ug/L	20	18.1	90	62-125	
1,2-Dichloropropane	ug/L	20	16.9	85	69-115	
1,3-Dichlorobenzene	ug/L	20	16.6	83	71-118	
1,4-Dichlorobenzene	ug/L	20	17.7	89	67-119	
2-Butanone (MEK)	ug/L	20	21.7	109	48-136	
2-Hexanone	ug/L	20	17.8	89	52-130	
4-Methyl-2-pentanone (MIBK)	ug/L	20	19.9	99	57-124	
Acetone	ug/L	20	23.5	118	49-138	
Benzene	ug/L	20	16.6	83	66-122	
Bromodichloromethane	ug/L	20	17.2	86	63-118	
Bromoform	ug/L	20	20.9	104	46-130	
Bromomethane	ug/L	20	13.8	69	10-175	
Carbon disulfide	ug/L	20	27.5	137	59-142	
Carbon tetrachloride	ug/L	20	19.2	96	55-126	
Chlorobenzene	ug/L	20	19.0	95	70-121	
Chloroethane	ug/L	20	21.4	107	24-161	
Chloroform	ug/L	20	17.7	89	62-126	
Chloromethane	ug/L	20	20.1	101	37-147	
cis-1,2-Dichloroethene	ug/L	20	17.5	87	64-121	
cis-1,3-Dichloropropene	ug/L	20	15.7	79	64-118	
Dibromochloromethane	ug/L	20	20.1	101	60-120	
Ethylbenzene	ug/L	20	18.6	93	69-119	
Isopropylbenzene (Cumene)	ug/L	20	16.9	84	68-126	
m&p-Xylene	ug/L	40	36.0	90	70-124	
Methylene Chloride	ug/L	20	18.1	90	59-128	
o-Xylene	ug/L	20	18.1	91	67-123	
Styrene	ug/L	20	18.7	93	67-146	
Tetrachloroethene	ug/L	20	18.7	94	62-125	
Toluene	ug/L	20	18.1	91	72-115	
trans-1,2-Dichloroethene	ug/L	20	17.2	86	59-122	
trans-1,3-Dichloropropene	ug/L	20	16.1	80	64-120	
Trichloroethene	ug/L	20	19.5	97	62-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123816

LABORATORY CONTROL SAMPLE: 755877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Trichlorofluoromethane	ug/L	20	23.2	116	54-158	
Vinyl chloride	ug/L	20	20.9	104	52-145	
1,2-Dichloroethane-d4 (S)	%			102	77-119	
4-Bromofluorobenzene (S)	%			101	85-115	
Toluene-d8 (S)	%			102	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 756092 756093

Parameter	Units	30123743001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	25.8	25.6	129	128	62-125	1	M0
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	16.7	16.7	83	84	61-117	0	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.9	20.0	105	100	72-119	4	
1,1-Dichloroethane	ug/L	ND	20	20	23.8	23.5	119	118	63-123	1	
1,1-Dichloroethene	ug/L	ND	20	20	24.2	24.3	121	121	57-127	0	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.0	18.1	90	91	70-116	1	
1,2-Dichloroethane	ug/L	ND	20	20	22.9	22.7	115	114	62-125	1	
1,2-Dichloropropane	ug/L	ND	20	20	20.3	19.5	102	98	69-115	4	
1,3-Dichlorobenzene	ug/L	ND	20	20	17.5	17.2	88	86	71-118	2	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.7	18.3	93	91	67-119	2	
2-Butanone (MEK)	ug/L	ND	20	20	20.8	20.8	104	104	48-136	0	
2-Hexanone	ug/L	ND	20	20	14.8	14.8	74	74	52-130	0	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	20	20	16.8	17.8	84	89	57-124	6	
Acetone	ug/L	ND	20	20	21.4	22.4	107	112	49-138	5	
Benzene	ug/L	ND	20	20	20.7	20.4	104	102	66-122	1	
Bromodichloromethane	ug/L	ND	20	20	19.4	19.6	97	98	63-118	1	
Bromoform	ug/L	ND	20	20	20.8	20.6	104	103	46-130	1	
Bromomethane	ug/L	ND	20	20	13.0	15.0	65	75	10-175	14	
Carbon disulfide	ug/L	ND	20	20	25.2	27.8	126	139	59-142	10	
Carbon tetrachloride	ug/L	ND	20	20	26.5	26.0	132	130	55-126	2	M0
Chlorobenzene	ug/L	ND	20	20	21.4	21.2	107	106	70-121	1	
Chloroethane	ug/L	ND	20	20	25.7	25.7	128	128	24-161	0	
Chloroform	ug/L	74.4	20	20	97.9	98.5	117	120	62-126	1	
Chloromethane	ug/L	ND	20	20	22.7	23.1	114	116	37-147	2	
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.3	22.9	116	114	64-121	2	
cis-1,3-Dichloropropene	ug/L	ND	20	20	19.2	18.6	96	93	64-118	3	
Dibromochloromethane	ug/L	ND	20	20	21.5	21.3	107	107	60-120	1	
Ethylbenzene	ug/L	ND	20	20	20.7	21.0	103	105	69-119	1	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	19.1	19.3	96	96	68-126	1	
m&p-Xylene	ug/L	ND	40	40	41.8	40.7	104	102	70-124	3	
Methylene Chloride	ug/L	ND	20	20	22.0	21.9	110	110	59-128	0	
o-Xylene	ug/L	ND	20	20	20.1	19.6	100	98	67-123	2	
Styrene	ug/L	ND	20	20	20.7	19.8	103	99	67-146	5	
Tetrachloroethene	ug/L	ND	20	20	23.5	23.3	117	117	62-125	1	
Toluene	ug/L	ND	20	20	20.5	20.9	103	105	72-115	2	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123816

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 756092 756093

Parameter	Units	30123743001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
trans-1,2-Dichloroethene	ug/L	ND	20	20	23.7	23.8	119	119	59-122	0	
trans-1,3-Dichloropropene	ug/L	ND	20	20	18.7	18.7	93	93	64-120	0	
Trichloroethene	ug/L	ND	20	20	22.5	22.7	112	114	62-125	1	
Trichlorofluoromethane	ug/L	ND	20	20	30.5	32.1	152	160	54-158	5	M0
Vinyl chloride	ug/L	ND	20	20	24.6	25.5	123	128	52-145	4	
1,2-Dichloroethane-d4 (S)	%						97	103	77-119		
4-Bromofluorobenzene (S)	%						97	96	85-115		
Toluene-d8 (S)	%						95	95	85-115		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123816

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.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
C9	Common Laboratory Contaminant.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: ESSEX/HOPE JAMESTOWN
Pace Project No.: 30123816

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30123816001	**PRE-CARB**	EPA 8260B	MSV/20249		
30123816002	**PRIMARY-EFF**	EPA 8260B	MSV/20249		
30123816003	**POST-CARB**	EPA 8260B	MSV/20249		
30123816007	**TB-01**	EPA 8260B	MSV/20249		

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

1710436

Section A
Required Client Information:

Company:	URS CORP
Address:	FOSTER PLAZA 6, STE. 400, 681 ANDERSEN DR, PITTSBURGH PA 15220
Email To:	
Phone:	412-503-4300
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.:	41569831
Project Name:	ESSEX/HOPE JAMESTOWN
Project Number:	41569831.10000

Section C
Invoice Information:

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

REGULATORY AGENCY

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

Site Location STATE: NY

Section D
Required Client Information

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

Matrix Codes
MATRIX / CODE

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	VOCs 8260	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	PRE-CARB	WT	G		/	6.27.14	0950		3				X						X		001
2	PRIMARY-EFF	↓	↓	/		↓	0955		3				X						X		002
3	POST-CARB	↓	↓	/		↓	1000		3				X						X		003
4	POST-CARB	↓	↓	/		↓	1030		3				X						X		004
5	POST-CARB	↓	↓	/		↓	1100		3				X						X		005
6	POST-CARB	↓	↓	/		↓	1130		3				X						X		006
7	TB-01	WT	G	/		6.27.14	—		2				X						X		007
8																					
9																					
10																					
11																					
12																					

30123816

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
COMPOSITE FOUR (4)	Valerie / URS	6.27.14	~1600	[illegible]	6.27.14	~1600				
POST-CARB SAMPLES				Alyma R. Muchango	6/28/14	1020	2.6	Y	N	Y
IN LAB AND REPORT										
POST-CARB COMPOSITE										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: VALERIE SIBETO

SIGNATURE of SAMPLER: Valerie

DATE Signed (MM/DD/YY): 6.27.14

ORIGINAL

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

Sample Condition Upon Receipt

30123816

Pace Analytical

Client Name: URS Project #

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

Tracking #: 802339326593

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no Biological Tissue is Frozen: Yes No

Packing Material: Bubble Wrap ✓ Bubble Bags ___ None ___ Other Ziplocs

Thermometer Used 6 Type of Ice: (Wet) Blue None ☑ Samples on ice, cooling process has begun

Cooler Temp.: Observed Temp.: 2.7 °C Correction Factor: -0.1 °C Final Temp: 2.6 °C

Date and Initials of person examining contents: 6/28/14 AM

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 AM Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Date: 6/30/14

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

Pace Analytical

Project Number: 30123816

Client Name: URS

Item No.	Matrix Code	Glass Jar (120 / 250 / 500 / 1L)	Soil kit (2 SB, 1M, soil jar)	Chemistry (250 / 500 / 1L)	Organics (1L)	Nutrient (250 / 500)	Phenolics (250 ml)	TOC (40 ml / 250 ml)	TOX (250 ml)	Total Metals	Dissolved Metals preserved Y N	O & G (1L)	TPH (1L)	VOA (40 ml) 30 ml)	Cyanide (250 ml)	Sulfide (500 ml)	Bacteria (120 ml)	Wipes / swipe/ smear/ filter	Radchem Nalgene (125 / 250 / 500 / 1L)	Radchem Nalgene (1/2 gal. / 1 gal.L)	Cubitainer (500 ml / 4L)	Ziploc	Other	Other
001	WT													3									
↓ 006	↓ WT													3									
007	WT													1									

SCURF Back (C016-4 15May2012).xls