TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

Job Number: 180-2644-1

Job Description: Focused Site Assessment

For:
URS Corporation
Foster Plaza 4
501 Holiday Drive, Suite 300
Pittsburgh, PA 15220

Attention: Mr. James Pinta, Jr.

Approved for release.
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9/13/2011 8:29 AM

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09/13/2011

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DIM0051002 DIM0051004

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DIM0051002 DIM0051010

## CASE NARRATIVE

## Client: URS Corporation

## Project: Focused Site Assessment

## Report Number: 180-2644-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

**RECEIPT**
The samples were received on 08/05/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.0 and 0.7 C.

The laboratory received a broken 1L amber bottle for sample TC-1 (180-2644-1).

The laboratory only received six VOA vials for sample AW-2 (180-2644-2) instead of nine.

**LOW LEVEL VOLATILE ORGANIC COMPOUNDS**
Methylene Chloride and Toluene were detected in method blank MB 180-10937/3 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged

**SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)**
No difficulties were encountered during the semivolatiles analyses.

**GAS RANGE ORGANICS**
No difficulties were encountered during the GRO analyses.

**GLYCOLS**
Triethylene Glycol was detected in method blank MB 480-27399/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

The continuing calibration verification (CCV) (CCV 480-27383/3) for Ethylene Glycol recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

**DISSOLVED GASES**
The following samples submitted for dissolved gases analysis were received with incorrect preservation (pH >2): AW-2 (180-2644-2) and TC-1 (180-2644-1).

**1,2-DIBROMOETHANE AND 1,2-DIBROMO-3-CHLOROPROPANE BY MICROEXTRACTION AND GAS CHROMATOGRAPHY**
No difficulties were encountered during the EDB and DBCP analyses.

**DIESEL RANGE ORGANICS**
No difficulties were encountered during the DRO analyses.

**METALS**
Antimony, Boron and Molybdenum were detected in method blank MB 180-10641/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Several analytes were detected in method blank MB 180-10417/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

**GENERAL CHEMISTRY**

The method blanks had compounds detected at a level that was above the method detection limit but below the reporting limit. The values should be considered an estimate, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.



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# GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: HP6 Analysis Batch Number: 10092

Lab Sample ID: IC 180-10092/2 Client Sample ID:

Date Analyzed: 08/09/11 16:51 Lab File ID: 60809016.D GC Column: DB-624 ID: 0.18(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,1-Dichloroethene | 3.36 | Peak Integrated Incorrectly | lipayj | 08/09/11 17:10 |
| Acetone | 3.48 | Peak Integrated Incorrectly | lipayj | 08/09/11 17:11 |
| Acetonitrile | 3.94 | Peak Integrated Incorrectly | lipayj | 08/09/11 18:46 |

Lab Sample ID: IC 180-10092/3 Client Sample ID:

Date Analyzed: 08/09/11 17:15 Lab File ID: 60809017.D GC Column: DB-624 ID: 0.18(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Acetonitrile | 3.92 | Peak Integrated Incorrectly | lipayj | 08/09/11 18:47 |

Lab Sample ID: ICIS 180-10092/4 Client Sample ID:

Date Analyzed: 08/09/11 17:39 Lab File ID: 60809018.D GC Column: DB-624 ID: 0.18(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Acetonitrile | 3.91 | Peak Integrated Incorrectly | lipayj | 08/09/11 18:48 |

Lab Sample ID: IC 180-10092/5 Client Sample ID:

Date Analyzed: 08/09/11 18:03 Lab File ID: 60809019.D GC Column: DB-624 ID: 0.18(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Acetonitrile | 3.91 | Peak Integrated Incorrectly | lipayj | 08/09/11 18:48 |

Lab Sample ID: IC 180-10092/6 Client Sample ID:

Date Analyzed: 08/09/11 18:27 Lab File ID: 60809020.D GC Column: DB-624 ID: 0.18(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Acetonitrile | 3.90 | Peak Integrated Incorrectly | lipayj | 08/09/11 18:48 |

8260B



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# GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: HP6 Analysis Batch Number: 10092

Lab Sample ID: IC 180-10092/7 Client Sample ID:

Date Analyzed: 08/09/11 18:51 Lab File ID: 60809021.D GC Column: DB-624 ID: 0.18(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Acetonitrile | 3.90 | Peak Integrated Incorrectly | lipayj | 08/09/11 19:09 |

Lab Sample ID: IC 180-10092/8 Client Sample ID:

Date Analyzed: 08/09/11 19:15 Lab File ID: 60809022.D GC Column: DB-624 ID: 0.18(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Acetonitrile | 3.89 | Peak Integrated Incorrectly | lipayj | 08/09/11 19:32 |

8260B



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DIM0051002

# GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: HP6 Analysis Batch Number: 10937

Lab Sample ID: CCVIS 180-10937/2 Client Sample ID:

Date Analyzed: 08/17/11 08:23 Lab File ID: 60817005.D GC Column: DB-624 ID: 0.18(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Acetone | 3.47 | Peak Integrated Incorrectly | fergusond | 08/17/11 08:48 |

8260B



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DIM0051015

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: 731 Analysis Batch Number: 9154

Lab Sample ID: IC 180-9154/2 Client Sample ID:

Date Analyzed: 08/02/11 04:12 Lab File ID: V0802IC1.D GC Column: Rxi-5SilMS ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,4-Dioxane | 1.43 | Peak Not Found | piccolino v | 08/02/11 06:18 |
| N-Nitrosodimethylamine | 1.93 | Poor Chromatography | piccolino v | 08/02/11 06:18 |
| Pyridine | 2.00 | Poor Chromatography | piccolino v | 08/02/11 06:18 |
| Benzoic acid | 5.30 | Poor Chromatography | piccolino v | 08/02/11 06:18 |
| Benzidine | 9.03 | Peak Not Found | piccolino v | 08/02/11 06:19 |
| Bis(2-ethylhexyl) phthalate | 10.03 | Poor Chromatography | piccolino v | 08/02/11 06:19 |
| 7,12-Dimethylbenz(a)anthracene | 11.02 | Poor Chromatography | piccolino v | 08/02/11 06:19 |
| Benzo[k]fluoranthene | 11.06 | Poor Chromatography | piccolino v | 08/02/11 06:19 |
| Benzo[a]pyrene | 11.40 | Poor Chromatography | piccolino v | 08/02/11 06:19 |
| Indeno[1,2,3-cd]pyrene | 12.86 | Poor Chromatography | piccolino v | 08/02/11 06:19 |
| Dibenz(a,h)anthracene | 12.87 | Poor Chromatography | piccolino v | 08/02/11 06:19 |
| Benzo[g,h,i]perylene | 13.29 | Poor Chromatography | piccolino v | 08/02/11 06:20 |

8270C LL



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DIM0051002

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: 731 Analysis Batch Number: 9154

Lab Sample ID: IC 180-9154/3 Client Sample ID:

Date Analyzed: 08/02/11 04:34 Lab File ID: V0802IC2.D GC Column: Rxi-5SilMS ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Pyridine | 1.95 | Poor Chromatography | piccolinov | 08/02/11 06:20 |
| Benzoic acid | 5.31 | Poor Chromatography | piccolinov | 08/02/11 06:20 |
| Benzidine | 9.04 | Poor Chromatography | piccolinov | 08/02/11 06:20 |
| Bis(2-ethylhexyl) phthalate | 10.03 | Poor Chromatography | piccolinov | 08/02/11 06:21 |
| Chrysene | 10.09 | Poor Chromatography | piccolinov | 08/02/11 06:21 |
| Di-n-octyl phthalate | 10.57 | Poor Chromatography | piccolinov | 08/02/11 06:21 |
| Benzo[k]fluoranthene | 11.07 | Poor Chromatography | piccolinov | 08/02/11 06:21 |
| Benzo[a]pyrene | 11.41 | Poor Chromatography | piccolinov | 08/02/11 06:22 |
| Indeno[1,2,3-cd]pyrene | 12.88 | Poor Chromatography | piccolinov | 08/02/11 06:22 |
| Dibenz(a,h)anthracene | 12.90 | Poor Chromatography | piccolinov | 08/02/11 06:22 |
| Benzo[g,h,i]perylene | 13.31 | Poor Chromatography | piccolinov | 08/02/11 06:22 |

8270C LL



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CABOT_OIL 0097778

DIM0051017

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: 731 Analysis Batch Number: 9154

Lab Sample ID: ICIS 180-9154/4 Client Sample ID:

Date Analyzed: 08/02/11 04:56 Lab File ID: V0802IC3.D GC Column: Rxi-5SilMS ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,4-Dioxane | 1.42 | Poor Chromatography | piccolino v | 08/02/11 06:22 |
| Pyridine | 1.94 | Poor Chromatography | piccolino v | 08/02/11 06:23 |
| Benzoic acid | 5.32 | Poor Chromatography | piccolino v | 08/02/11 06:23 |
| Acenaphthene | 6.89 | Poor Chromatography | piccolino v | 08/02/11 06:23 |
| 2,3,4,6-Tetrachlorophenol | 7.12 | Poor Chromatography | piccolino v | 08/02/11 06:23 |
| Pentachlorophenol | 7.86 | Poor Chromatography | piccolino v | 08/02/11 06:24 |
| Benzidine | 9.04 | Poor Chromatography | piccolino v | 08/02/11 06:24 |
| Di-n-octyl phthalate | 10.57 | Poor Chromatography | piccolino v | 08/02/11 06:24 |
| Benzo[b]fluoranthene | 11.04 | Poor Chromatography | piccolino v | 08/02/11 06:24 |
| Benzo[k]fluoranthene | 11.07 | Poor Chromatography | piccolino v | 08/02/11 06:24 |
| Benzo[a]pyrene | 11.41 | Poor Chromatography | piccolino v | 08/02/11 06:24 |
| Indeno[1,2,3-cd]pyrene | 12.88 | Poor Chromatography | piccolino v | 08/02/11 06:25 |
| Dibenz(a,h)anthracene | 12.89 | Poor Chromatography | piccolino v | 08/02/11 06:25 |
| Benzo[g,h,i]perylene | 13.30 | Poor Chromatography | piccolino v | 08/02/11 06:25 |

8270C LL



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CABOT_OIL 0097779

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: 731 Analysis Batch Number: 9154

Lab Sample ID: IC 180-9154/5 Client Sample ID:

Date Analyzed: 08/02/11 05:18 Lab File ID: V0802IC4.D GC Column: Rxi-5SilMS ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Pyridine | 1.93 | Peak Not Found | piccolino v | 08/02/11 06:25 |
| Benzidine | 9.03 | Poor Chromatography | piccolino v | 08/02/11 06:26 |
| Dibenz(a,h)anthracene | 12.89 | Poor Chromatography | piccolino v | 08/02/11 06:26 |
| Benzo[g,h,i]perylene | 13.30 | Poor Chromatography | piccolino v | 08/02/11 06:26 |

Lab Sample ID: IC 180-9154/6 Client Sample ID:

Date Analyzed: 08/02/11 05:41 Lab File ID: V0802IC5.D GC Column: Rxi-5SilMS ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,4-Dioxane | 1.41 | Poor Chromatography | piccolino v | 08/02/11 06:26 |
| Pyridine | 1.92 | Peak Not Found | piccolino v | 08/02/11 06:27 |
| Benzidine | 9.03 | Poor Chromatography | piccolino v | 08/02/11 06:27 |
| Benzo[k]fluoranthene | 11.08 | Poor Chromatography | piccolino v | 08/02/11 06:28 |

8270C LL



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CABOT_OIL 0097780

# GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: 731 Analysis Batch Number: 9154

Lab Sample ID: IC 180-9154/7 Client Sample ID:

Date Analyzed: 08/02/11 06:04 Lab File ID: V0802IC6.D GC Column: Rxi-5SilMS ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Pyridine | 1.92 | Peak Not Found | piccolino v | 08/02/11 06:29 |
| Benzoic acid | 5.35 | Peak Not Found | piccolino v | 08/02/11 06:29 |
| Caprolactam | 5.84 | Peak Not Found | piccolino v | 08/02/11 06:30 |

Lab Sample ID: IC 180-9154/8 Client Sample ID:

Date Analyzed: 08/02/11 06:27 Lab File ID: V0802IC7.D GC Column: Rxi-5SilMS ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Caprolactam | 5.86 | Poor Chromatography | piccolino v | 08/02/11 06:56 |
| Atrazine | 7.78 | Poor Chromatography | piccolino v | 08/02/11 06:57 |
| Perylene-d12 | 11.48 | Poor Chromatography | piccolino v | 08/02/11 06:56 |

8270C LL



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CABOT_OIL 0097781

# GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: 731 Analysis Batch Number: 10588

Lab Sample ID: CCVIS 180-10588/26 Client Sample ID:

Date Analyzed: 08/13/11 13:51 Lab File ID: V08130CC.D GC Column: Rxi-5SilMS ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Pyridine | 1.85 | Poor Chromatography | piccolino v | 08/15/11 07:14 |

Lab Sample ID: LCS 180-9967/2-A Client Sample ID:

Date Analyzed: 08/13/11 19:11 Lab File ID: V0813027.D GC Column: Rxi-5SilMS ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Terphenyl-d14 | 9.16 | Peak Not Found | piccolino v | 08/15/11 07:44 |

8270C LL



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CABOT_OIL 0097782

# GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: 731 Analysis Batch Number: 13666

Lab Sample ID: CCVIS 180-13666/2 Client Sample ID:

Date Analyzed: 08/13/11 13:51 Lab File ID: V08130CC.D GC Column: Rxi-5SilMS ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Pyridine | 1.85 | Poor Chromatography | piccolino v | 08/15/11 07:14 |

Lab Sample ID: 180-2644-2 Client Sample ID: AW-2

Date Analyzed: 08/14/11 00:50 Lab File ID: V0813033.D GC Column: Rxi-5SilMS ID: 0.32(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Nitrobenzene-d5 | 4.89 | Peak Not Found | piccolino v | 08/15/11 07:52 |
| Naphthalene-d8 | 5.44 | Peak Not Found | piccolino v | 08/15/11 07:51 |
| 2-Fluorobiphenyl | 6.27 | Peak Not Found | piccolino v | 08/15/11 07:52 |
| Acenaphthene-d10 | 6.78 | Peak Not Found | piccolino v | 08/15/11 07:51 |

8270C LL



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CABOT_OIL 0097783

# GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: GC12 Analysis Batch Number: 11137

Lab Sample ID: IC 180-10157/1-A Client Sample ID:

Date Analyzed: 08/15/11 12:08 Lab File ID: W0810104.D GC Column: Rxi-50 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,2-Dibromo-3-Chloropropane | 10.71 | Poor Chromatography | derubeisj | 08/17/11 14:28 |

Lab Sample ID: IC 180-10157/2-A Client Sample ID:

Date Analyzed: 08/15/11 12:37 Lab File ID: W0810105.D GC Column: Rxi-50 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,2-Dibromo-3-Chloropropane | 10.71 | Poor Chromatography | derubeisj | 08/17/11 14:29 |

Lab Sample ID: IC 180-10157/3-A Client Sample ID:

Date Analyzed: 08/15/11 13:07 Lab File ID: W0810106.D GC Column: Rxi-50 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,2-Dibromo-3-Chloropropane | 10.71 | Poor Chromatography | derubeisj | 08/17/11 14:29 |

Lab Sample ID: ICRT 180-10157/4-A Client Sample ID:

Date Analyzed: 08/15/11 13:36 Lab File ID: W0810107.D GC Column: Rxi-50 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,2-Dibromo-3-Chloropropane | 10.71 | Poor Chromatography | derubeisj | 08/17/11 14:26 |

Lab Sample ID: IC 180-10157/5-A Client Sample ID:

Date Analyzed: 08/15/11 14:06 Lab File ID: W0810108.D GC Column: Rxi-50 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,1,1,2-Tetrachloroethane | 6.75 | Poor Chromatography | derubeisj | 08/17/11 14:30 |
| 1,2-Dibromo-3-Chloropropane | 10.71 | Poor Chromatography | derubeisj | 08/17/11 14:30 |

8011



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CABOT_OIL 0097784

DIM0051002

# GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: GC12 Analysis Batch Number: 11137

Lab Sample ID: IC 180-10157/6-A Client Sample ID:

Date Analyzed: 08/15/11 14:35 Lab File ID: W0810109.D GC Column: Rxi-50 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,2-Dibromo-3-Chloropropane | 10.72 | Poor Chromatography | derubeisj | 08/17/11 14:30 |

Lab Sample ID: ICV 180-10157/7-A Client Sample ID:

Date Analyzed: 08/15/11 15:05 Lab File ID: W0810110.D GC Column: Rxi-50 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,2-Dibromo-3-Chloropropane | 10.72 | Poor Chromatography | derubeisj | 08/17/11 14:34 |

Lab Sample ID: CCV 180-10157/16-A Client Sample ID:

Date Analyzed: 08/15/11 21:56 Lab File ID: W0810124.D GC Column: Rxi-50 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,1,1,2-Tetrachloroethane | 6.75 | Poor Chromatography | derubeisj | 08/17/11 14:35 |
| 1,2-Dibromo-3-Chloropropane | 10.72 | Poor Chromatography | derubeisj | 08/17/11 14:36 |

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CABOT_OIL 0097785

DIM0051024

# GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: GC12 Analysis Batch Number: 11141

Lab Sample ID: IC 180-10624/1-A Client Sample ID:

Date Analyzed: 08/15/11 11:38 Lab File ID: X0810104.D GC Column: RTX-1701 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,2-Dibromoethane (EDB) | 5.78 | Poor Chromatography | derubeisj | 08/15/11 13:37 |
| 1,1,1,2-Tetrachloroethane | 6.26 | Poor Chromatography | derubeisj | 08/15/11 13:37 |
| 1,2,3-Trichloropropane | 7.78 | Poor Chromatography | derubeisj | 08/18/11 11:47 |
| 1,2-Dibromo-3-Chloropropane | 9.98 | Poor Chromatography | derubeisj | 08/15/11 13:37 |

Lab Sample ID: IC 180-10624/2-A Client Sample ID:

Date Analyzed: 08/15/11 12:08 Lab File ID: X0810105.D GC Column: RTX-1701 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,2-Dibromoethane (EDB) | 5.77 | Poor Chromatography | derubeisj | 08/15/11 13:38 |
| 1,1,1,2-Tetrachloroethane | 6.26 | Poor Chromatography | derubeisj | 08/15/11 13:38 |
| 1,2,3-Trichloropropane | 7.78 | Poor Chromatography | derubeisj | 08/18/11 11:48 |

Lab Sample ID: IC 180-10624/3-A Client Sample ID:

Date Analyzed: 08/15/11 12:37 Lab File ID: X0810106.D GC Column: RTX-1701 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,2-Dibromoethane (EDB) | 5.77 | Poor Chromatography | derubeisj | 08/15/11 13:36 |
| 1,1,1,2-Tetrachloroethane | 6.25 | Poor Chromatography | derubeisj | 08/15/11 13:36 |
| 1,2,3-Trichloropropane | 7.78 | Poor Chromatography | derubeisj | 08/18/11 11:48 |

# GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: GC12 Analysis Batch Number: 11141

Lab Sample ID: ICRT 180-10624/4-A Client Sample ID:

Date Analyzed: 08/15/11 13:07 Lab File ID: X0810107.D GC Column: RTX-1701 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,2-Dibromoethane (EDB) | 5.77 | Poor Chromatography | derubeisj | 08/15/11 13:34 |
| 1,1,1,2-Tetrachloroethane | 6.25 | Poor Chromatography | derubeisj | 08/15/11 13:34 |
| 1,2,3-Trichloropropane | 7.78 | Poor Chromatography | derubeisj | 08/18/11 11:49 |

Lab Sample ID: IC 180-10624/5-A Client Sample ID:

Date Analyzed: 08/15/11 13:36 Lab File ID: X0810108.D GC Column: RTX-1701 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,2-Dibromoethane (EDB) | 5.77 | Poor Chromatography | derubeisj | 08/16/11 15:49 |
| 1,1,1,2-Tetrachloroethane | 6.25 | Poor Chromatography | derubeisj | 08/16/11 15:49 |
| 1,2,3-Trichloropropane | 7.78 | Poor Chromatography | derubeisj | 08/18/11 11:50 |

Lab Sample ID: IC 180-10624/6-A Client Sample ID:

Date Analyzed: 08/15/11 14:06 Lab File ID: X0810109.D GC Column: RTX-1701 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,2-Dibromoethane (EDB) | 5.77 | Poor Chromatography | derubeisj | 08/16/11 15:49 |
| 1,1,1,2-Tetrachloroethane | 6.25 | Poor Chromatography | derubeisj | 08/16/11 15:50 |
| 1,2,3-Trichloropropane | 7.78 | Poor Chromatography | derubeisj | 08/18/11 11:51 |
| 1,2-Dibromo-3-Chloropropane | 9.97 | Poor Chromatography | derubeisj | 08/16/11 15:50 |

Lab Sample ID: ICV 180-10624/7-A Client Sample ID:

Date Analyzed: 08/15/11 14:35 Lab File ID: X0810110.D GC Column: RTX-1701 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,2-Dibromoethane (EDB) | 5.77 | Poor Chromatography | derubeisj | 08/16/11 15:56 |
| 1,1,1,2-Tetrachloroethane | 6.26 | Poor Chromatography | derubeisj | 08/16/11 15:56 |

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# GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: GC12 Analysis Batch Number: 11141

Lab Sample ID: CCV 180-10624/18-A Client Sample ID:

Date Analyzed: 08/15/11 21:27 Lab File ID: X0810124.D GC Column: RTX-1701 ID: 0.53(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 1,2-Dibromoethane (EDB) | 5.77 | Poor Chromatography | derubeisj | 08/16/11 15:57 |
| 1,1,1,2-Tetrachloroethane | 6.25 | Poor Chromatography | derubeisj | 08/16/11 15:57 |

8011



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CABOT_OIL 0097788

DIM0051002

# GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: IC25 Analysis Batch Number: 9103

Lab Sample ID: IC 180-9103/2 Client Sample ID:

Date Analyzed: 07/26/11 19:00 Lab File ID: 0002.d GC Column: AS-14 ID:

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Fluoride | 2.76 | Baseline Event | waclaskil | 07/27/11 09:12 |

Lab Sample ID: IC 180-9103/3 Client Sample ID:

Date Analyzed: 07/26/11 19:14 Lab File ID: 0003.d GC Column: AS-14 ID:

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Fluoride | 2.75 | Baseline Event | waclaskil | 07/27/11 09:13 |

Lab Sample ID: IC 180-9103/4 Client Sample ID:

Date Analyzed: 07/26/11 19:28 Lab File ID: 0004.d GC Column: AS-14 ID:

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Fluoride | 2.75 | Baseline Event | waclaskil | 07/27/11 09:13 |

Lab Sample ID: IC 180-9103/5 Client Sample ID:

Date Analyzed: 07/26/11 19:42 Lab File ID: 0005.d GC Column: AS-14 ID:

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Fluoride | 2.76 | Baseline Event | waclaskil | 07/27/11 09:14 |

Lab Sample ID: IC 180-9103/6 Client Sample ID:

Date Analyzed: 07/26/11 19:56 Lab File ID: 0006.d GC Column: AS-14 ID:

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Fluoride | 2.74 | Baseline Event | waclaskil | 07/27/11 09:14 |

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GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: IC25 Analysis Batch Number: 9103

Lab Sample ID: IC 180-9103/7 Client Sample ID:

Date Analyzed: 07/26/11 20:10 Lab File ID: 0007.d GC Column: AS-14 ID:

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Chloride | 3.76 | Baseline Event | waclaskil | 07/27/11 09:09 |

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GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: IC25 Analysis Batch Number: 9894

Lab Sample ID: ICV 180-9894/2 Client Sample ID:

Date Analyzed: 08/05/11 09:41 Lab File ID: 0009.d GC Column: AS-14 ID:

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Fluoride | 2.71 | Baseline Event | waclaskil | 08/05/11 10:31 |
| Chloride | 3.62 | Baseline Event | waclaskil | 08/05/11 10:30 |
| Bromide | 4.84 | Baseline Event | waclaskil | 08/05/11 10:30 |

Lab Sample ID: CCV 180-9894/3 Client Sample ID:

Date Analyzed: 08/05/11 09:55 Lab File ID: 0010.d GC Column: AS-14 ID:

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Fluoride | 2.72 | Baseline Event | waclaskil | 08/05/11 10:32 |
| Chloride | 3.62 | Baseline Event | waclaskil | 08/05/11 10:32 |
| Bromide | 4.85 | Baseline Event | waclaskil | 08/05/11 10:32 |

Lab Sample ID: LCS 180-9894/5 Client Sample ID:

Date Analyzed: 08/05/11 10:23 Lab File ID: 0012.d GC Column: AS-14 ID:

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Chloride | 3.62 | Baseline Event | waclaskil | 08/05/11 11:41 |

Lab Sample ID: MB 180-9894/6 Client Sample ID:

Date Analyzed: 08/05/11 10:37 Lab File ID: 0013.d GC Column: AS-14 ID:

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Chloride | 3.65 | Baseline Event | waclaskil | 08/05/11 11:43 |

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GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: IC25 Analysis Batch Number: 9894

Lab Sample ID: LCSD 180-9894/7 Client Sample ID:

Date Analyzed: 08/05/11 10:51 Lab File ID: 0014.d GC Column: AS-14 ID:

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Chloride | 3.61 | Baseline Event | waclaskil | 08/05/11 11:44 |

Lab Sample ID: CCV 180-9894/15 Client Sample ID:

Date Analyzed: 08/05/11 13:10 Lab File ID: 0022.d GC Column: AS-14 ID:

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Fluoride | 2.73 | Baseline Event | waclaskil | 08/05/11 14:41 |
| Chloride | 3.63 | Baseline Event | waclaskil | 08/05/11 14:41 |
| Bromide | 4.85 | Baseline Event | waclaskil | 08/05/11 14:41 |

Lab Sample ID: CCV 180-9894/38 Client Sample ID:

Date Analyzed: 08/06/11 08:13 Lab File ID: 0045.d GC Column: AS-14 ID:

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Fluoride | 2.72 | Baseline Event | waclaskil | 08/08/11 09:29 |
| Chloride | 3.62 | Baseline Event | waclaskil | 08/08/11 09:29 |
| Bromide | 4.86 | Baseline Event | waclaskil | 08/08/11 09:29 |

Lab Sample ID: LCS 180-9894/48 Client Sample ID:

Date Analyzed: 08/06/11 10:33 Lab File ID: 0055.d GC Column: AS-14 ID:

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Chloride | 3.63 | Baseline Event | waclaskil | 08/08/11 10:15 |

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# GENERAL CHEMISTRY MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Pittsburgh Job No.: 180-2644-1

SDG No.:

Instrument ID: IC25 Analysis Batch Number: 9894

Lab Sample ID: CCV 180-9894/50 Client Sample ID:

Date Analyzed: 08/06/11 11:00 Lab File ID: 0057.d GC Column: AS-14 ID:

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Fluoride | 2.72 | Baseline Event | waclaskil | 08/06/11 11:20 |
| Chloride | 3.63 | Baseline Event | waclaskil | 08/06/11 11:20 |
| Bromide | 4.86 | Baseline Event | waclaskil | 08/06/11 11:20 |

Lab Sample ID: CCV 180-9894/61 Client Sample ID:

Date Analyzed: 08/06/11 14:22 Lab File ID: 0068.d GC Column: AS-14 ID:

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Fluoride | 2.73 | Baseline Event | waclaskil | 08/08/11 09:31 |
| Chloride | 3.63 | Baseline Event | waclaskil | 08/08/11 09:31 |
| Bromide | 4.84 | Baseline Event | waclaskil | 08/08/11 09:31 |

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# GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 180-2644-1

SDG No.:

Instrument ID: PE-01 Analysis Batch Number: 1254

Lab Sample ID: STD1 480-1254/1 IC Client Sample ID:

Date Analyzed: 04/09/10 13:46 Lab File ID: PE01GLY007.d GC Column: ZB-5 ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Triethylene Glycol | 8.94 | Baseline Smoothing | bescod | 11/30/10 13:26 |

Lab Sample ID: STD2 480-1254/2 IC Client Sample ID:

Date Analyzed: 04/09/10 13:58 Lab File ID: PE01GLY008.d GC Column: ZB-5 ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Triethylene Glycol | 8.93 | Baseline Smoothing | bescod | 11/30/10 13:27 |

Lab Sample ID: STD3 480-1254/3 IC Client Sample ID:

Date Analyzed: 04/09/10 14:11 Lab File ID: PE01GLY009.d GC Column: ZB-5 ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Triethylene Glycol | 8.93 | Baseline Smoothing | bescod | 11/30/10 13:28 |

Lab Sample ID: STD4 480-1254/4 IC Client Sample ID:

Date Analyzed: 04/09/10 14:24 Lab File ID: PE01GLY010.d GC Column: ZB-5 ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Triethylene Glycol | 8.93 | Shouldering | bescod | 11/30/10 13:29 |

Lab Sample ID: STD5 480-1254/5 IC Client Sample ID:

Date Analyzed: 04/09/10 14:36 Lab File ID: PE01GLY011.d GC Column: ZB-5 ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Triethylene Glycol | 8.93 | Shouldering | bescod | 11/30/10 13:30 |

8015B



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# GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 180-2644-1

SDG No.:

Instrument ID: PE-01 Analysis Batch Number: 1254

Lab Sample ID: STD6 480-1254/6 IC Client Sample ID:

Date Analyzed: 04/09/10 14:49 Lab File ID: PE01GLY012.d GC Column: ZB-5 ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| 2-Methoxyethanol | 2.00 | Baseline Smoothing | bescod | 11/30/10 12:54 |
| 2-Ethoxyethanol | 2.16 | Baseline Smoothing | bescod | 11/30/10 12:54 |
| Propylene glycol | 4.64 | Baseline Smoothing | bescod | 11/30/10 12:54 |
| Ethylene glycol | 4.90 | Baseline Smoothing | bescod | 11/30/10 12:54 |
| 1,4-Butanediol | 6.99 | Baseline Smoothing | bescod | 11/30/10 12:54 |
| 2,2'-Oxybisethanol | 7.34 | Baseline Smoothing | bescod | 11/30/10 12:54 |
| Triethylene Glycol | 8.94 | Baseline Smoothing | bescod | 11/30/10 12:54 |

8015B



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CABOT_OIL 0097795

# GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 180-2644-1

SDG No.:

Instrument ID: PE-01 Analysis Batch Number: 27383

Lab Sample ID: CCV 480-27383/14 Client Sample ID:

Date Analyzed: 08/12/11 21:18 Lab File ID: PE06077.d GC Column: ZB-5 ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Ethylene glycol | 4.83 | Peak Tail | WolfL | 08/12/11 21:37 |

8015B



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## SAMPLE SUMMARY

Client: URS Corporation

Job Number: 180-2644-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 180-2644-1 | TC-1 | Water | 08/04/2011 0930 | 08/05/2011 1000 |
| 180-2644-2 | AW-2 | Water | 08/04/2011 1320 | 08/05/2011 1000 |

## EXECUTIVE SUMMARY - Detections

Client: URS Corporation

Job Number: 180-2644-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **180-2644-1** | **TC-1** | | | | | |
| Butyl benzyl phthalate | | 0.17 | J | 1.2 | ug/L | 8270C LL |
| Di-n-butyl phthalate | | 0.87 | J | 1.2 | ug/L | 8270C LL |
| Triethylene Glycol | | 2.7 | J B | 10 | mg/L | 8015B |
| 2,2'-Oxybisethanol | | 1.8 | J | 10 | mg/L | 8015B |
| Methane | | 18 | | 1.0 | ug/L | RSK-175 |
| Aluminum | | 3.8 | J | 30 | ug/L | 6020 |
| Arsenic | | 2.2 | | 1.0 | ug/L | 6020 |
| Barium | | 210 | | 10 | ug/L | 6020 |
| Boron | | 24 | B | 5.0 | ug/L | 6020 |
| Calcium | | 22000 | | 100 | ug/L | 6020 |
| Cobalt | | 0.051 | J | 0.50 | ug/L | 6020 |
| Chromium | | 1.3 | J | 2.0 | ug/L | 6020 |
| Copper | | 1.1 | J | 2.0 | ug/L | 6020 |
| Iron | | 1100 | | 50 | ug/L | 6020 |
| Potassium | | 880 | | 100 | ug/L | 6020 |
| Magnesium | | 4800 | | 100 | ug/L | 6020 |
| Manganese | | 190 | B | 0.50 | ug/L | 6020 |
| Sodium | | 18000 | | 100 | ug/L | 6020 |
| Lead | | 0.11 | J B | 1.0 | ug/L | 6020 |
| Molybdenum | | 0.49 | J B | 5.0 | ug/L | 6020 |
| Antimony | | 0.019 | J B | 2.0 | ug/L | 6020 |
| Selenium | | 0.76 | J | 5.0 | ug/L | 6020 |
| Zinc | | 2.6 | J B | 5.0 | ug/L | 6020 |
| Chloride | | 2.1 | | 1.0 | mg/L | 300.0 |
| Ammonia, distilled | | 0.15 | B | 0.10 | mg/L | 350.1 |
| Alkalinity | | 120 | B | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | | 220 | | 10 | mg/L | SM 2540C |
| pH | | 7.35 | HF | 0.100 | SU | SM 4500 H+ B |
| ***Dissolved*** | | | | | | |
| Arsenic | | 0.77 | J | 1.0 | ug/L | 6020 |
| Barium | | 210 | | 10 | ug/L | 6020 |
| Boron | | 25 | B | 5.0 | ug/L | 6020 |
| Calcium | | 26000 | | 100 | ug/L | 6020 |
| Cobalt | | 0.089 | J | 0.50 | ug/L | 6020 |
| Chromium | | 3.6 | | 2.0 | ug/L | 6020 |
| Copper | | 0.90 | J | 2.0 | ug/L | 6020 |
| Iron | | 27 | J | 50 | ug/L | 6020 |
| Potassium | | 1100 | | 100 | ug/L | 6020 |
| Magnesium | | 5200 | | 100 | ug/L | 6020 |
| Manganese | | 200 | | 0.50 | ug/L | 6020 |
| Sodium | | 19000 | | 100 | ug/L | 6020 |
| Nickel | | 0.51 | J | 1.0 | ug/L | 6020 |
| Lead | | 0.14 | J | 1.0 | ug/L | 6020 |
| Molybdenum | | 1.3 | J B | 5.0 | ug/L | 6020 |
| Antimony | | 0.65 | J B | 2.0 | ug/L | 6020 |

## EXECUTIVE SUMMARY - Detections

Client: URS Corporation

Job Number: 180-2644-1

| Lab Sample ID Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| Selenium | | 0.55 | J | 5.0 | ug/L | 6020 |
| Thallium | | 0.025 | J | 1.0 | ug/L | 6020 |
| Zinc | | 2.8 | J | 5.0 | ug/L | 6020 |

## EXECUTIVE SUMMARY - Detections

Client: URS Corporation

Job Number: 180-2644-1

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **180-2644-2** | **AW-2** | | | | | |
| Di-n-butyl phthalate | | 0.46 | J | 1.0 | ug/L | 8270C LL |
| Diethyl phthalate | | 0.20 | J | 1.0 | ug/L | 8270C LL |
| GRO (C6-C10) | | 17 | J | 25 | ug/L | 8015B |
| 2,2'-Oxybisethanol | | 0.58 | J | 10 | mg/L | 8015B |
| Aluminum | | 3.0 | J | 30 | ug/L | 6020 |
| Arsenic | | 0.47 | J | 1.0 | ug/L | 6020 |
| Barium | | 130 | | 10 | ug/L | 6020 |
| Boron | | 13 | B | 5.0 | ug/L | 6020 |
| Calcium | | 27000 | | 100 | ug/L | 6020 |
| Cobalt | | 0.067 | J | 0.50 | ug/L | 6020 |
| Chromium | | 2.0 | | 2.0 | ug/L | 6020 |
| Copper | | 0.64 | J | 2.0 | ug/L | 6020 |
| Potassium | | 1500 | | 100 | ug/L | 6020 |
| Magnesium | | 7700 | | 100 | ug/L | 6020 |
| Manganese | | 0.42 | J B | 0.50 | ug/L | 6020 |
| Sodium | | 7300 | | 100 | ug/L | 6020 |
| Lead | | 0.027 | J B | 1.0 | ug/L | 6020 |
| Molybdenum | | 0.55 | J B | 5.0 | ug/L | 6020 |
| Antimony | | 0.78 | J B | 2.0 | ug/L | 6020 |
| Selenium | | 0.84 | J | 5.0 | ug/L | 6020 |
| Zinc | | 4.2 | J B | 5.0 | ug/L | 6020 |
| Chloride | | 21 | | 1.0 | mg/L | 300.0 |
| Ammonia, distilled | | 0.10 | B | 0.10 | mg/L | 350.1 |
| Alkalinity | | 89 | B | 5.0 | mg/L | SM 2320B |
| Total Dissolved Solids | | 280 | | 10 | mg/L | SM 2540C |
| pH | | 6.82 | HF | 0.100 | SU | SM 4500 H+ B |
| ***Dissolved*** | | | | | | |
| Barium | | 130 | | 10 | ug/L | 6020 |
| Boron | | 14 | B | 5.0 | ug/L | 6020 |
| Calcium | | 31000 | | 100 | ug/L | 6020 |
| Cobalt | | 0.11 | J | 0.50 | ug/L | 6020 |
| Chromium | | 4.3 | | 2.0 | ug/L | 6020 |
| Copper | | 0.77 | J | 2.0 | ug/L | 6020 |
| Potassium | | 1800 | | 100 | ug/L | 6020 |
| Magnesium | | 8200 | | 100 | ug/L | 6020 |
| Manganese | | 0.45 | J | 0.50 | ug/L | 6020 |
| Sodium | | 8100 | | 100 | ug/L | 6020 |
| Nickel | | 0.44 | J | 1.0 | ug/L | 6020 |
| Lead | | 0.092 | J | 1.0 | ug/L | 6020 |
| Molybdenum | | 0.56 | J B | 5.0 | ug/L | 6020 |
| Antimony | | 0.23 | J B | 2.0 | ug/L | 6020 |
| Thallium | | 0.021 | J | 1.0 | ug/L | 6020 |
| Zinc | | 2.3 | J | 5.0 | ug/L | 6020 |

# METHOD SUMMARY

Client: URS Corporation

Job Number: 180-2644-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix Water** | | | |
| Volatile Organic Compounds (GC/MS) | TAL PIT | SW846 8260B | |
| Purge and Trap | TAL PIT | | SW846 5030B |
| Semivolatile Organic Compounds by GCMS - Low Levels | TAL PIT | SW846 8270C LL | |
| Liquid-Liquid Extraction (Continuous | | | SW846 3520C |
| Semivolatile Organic Compounds by GCMS - Low Levels | TAL PIT | SW846 8270C LL | |
| Liquid-Liquid Extraction (Continuous) | | | SW846 3520C |
| EDB, DBCP, and 1,2,3-TCP (GC) | TAL PIT | SW846 8011 | |
| Microextraction | | | SW846 8011 |
| Metals (ICP/MS) | TAL PIT | SW846 6020 | |
| Preparation, Total Recoverable or Dissolved Metals | | | SW846 3005A |
| Sample Filtration | | | Filtration |
| Metals (ICP/MS) | TAL PIT | SW846 6020 | |
| Preparation, Total Metals | | | SW846 3010A |
| Mercury (CVAA) | TAL PIT | SW846 7470A | |
| Preparation, Mercury | | | SW846 7470A |
| Mercury (CVAA) | TAL PIT | SW846 7470A | |
| Preparation, Mercury | | | SW846 7470A |
| Sample Filtration, Field | | | FIELD_FLTRD |
| HEM and SGT-HEM | TAL PIT | 1664A 1664A | |
| HEM and SGT-HEM (SPE) | | | 1664A 1664A |
| Anions, Ion Chromatography | TAL PIT | MCAWW 300.0 | |
| Nitrogen, Ammonia | TAL PIT | MCAWW 350.1 | |
| Distillation, Ammonia | | | Distill/Ammonia |
| Acidity | TAL PIT | SM SM 2310B | |
| Alkalinity | TAL PIT | SM SM 2320B | |
| Solids, Total Dissolved (TDS) | TAL PIT | SM SM 2540C | |
| Solids, Total Suspended (TSS) | TAL PIT | SM SM 2540D | |
| pH | TAL PIT | SM SM 4500 H+ B | |
| Methylene Blue Active Substances (MBAS) | TAL PIT | SM SM 5540C | |
| Gasoline Range Organics - (GC) | TAL BUF | SW846 8015B | |
| Purge and Trap | TAL BUF | | SW846 5030B |
| Glycols -Direct Injection (GC/FID) | TAL BUF | SW846 8015B | |
| 8015 Direct Injection Prep (Aqueous) | | | SW846 8015 Prep |
| Dissolved Gases (GC) | TAL BUF | RSK RSK-175 | |
| Diesel Range Organics (DRO) (GC) | TAL BUF | SW846 8015B | |
| Liquid-Liquid Extraction (Separatory Funnel) | | | SW846 3510C |

**Lab References:**

TAL BUF = TestAmerica Buffalo

TAL PIT = TestAmerica Pittsburgh

# METHOD SUMMARY

Client: URS Corporation

Job Number: 180-2644-1

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|

**Method References:**

1664A = EPA-821-98-002

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: URS Corporation

Job Number: 180-2644-1

| Method | Analyst | Analyst ID |
|---|---|---|
| SW846 8260B | Ferguson, Donald | DF |
| SW846 8270C LL | Piccolino, Vincent | VP |
| SW846 8015B | Michalek, Jason | JM |
| SW846 8015B | Wolf, Leah | LW |
| RSK RSK-175 | Michalek, Jason | JM |
| SW846 8011 | DeRubeis, James D | JDD |
| SW846 8015B | Dosier, Christina | CD |
| SW846 6020 | Reinheimer, Bill | BR |
| SW846 7470A | Swanson, Jim | JS |
| 1664A 1664A | McLaughlin, Jeremiah W | JWM |
| MCAWW 300.0 | Waclaski, Linx | lw |
| MCAWW 350.1 | Kieda, Chuck | CK |
| SM SM 2310B | Johnson, Paul | PJ |
| SM SM 2320B | Loheyde, Cheryl | CL |
| SM SM 2540C | Kunkle, Sarah | SK |
| SM SM 2540D | Kunkle, Sarah | SK |
| SM SM 4500 H+ B | Bortot, Alexandra | AB |
| SM SM 5540C | Roffol, Sandy L | SLR |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **TC-1**

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 180-10937 | Instrument ID: | HP6 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | 60817013.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/17/2011 1224 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/17/2011 1224 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Acetone | 5.0 | U | 2.5 | 5.0 |
| Benzene | 1.0 | U | 0.11 | 1.0 |
| Bromodichloromethane | 1.0 | U | 0.13 | 1.0 |
| Bromoform | 1.0 | U | 0.19 | 1.0 |
| Bromomethane | 1.0 | U | 0.31 | 1.0 |
| 2-Butanone (MEK) | 5.0 | U | 0.55 | 5.0 |
| Carbon disulfide | 1.0 | U | 0.21 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.14 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.14 | 1.0 |
| Chloroethane | 1.0 | U | 0.21 | 1.0 |
| Chloroform | 1.0 | U | 0.17 | 1.0 |
| 1,2-Dibromoethane (EDB) | 1.0 | U | 0.18 | 1.0 |
| 1,2-Dichloroethene, Total | 1.0 | U | 0.51 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.12 | 1.0 |
| Bromochloromethane | 1.0 | U | 0.18 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.21 | 1.0 |
| 1,1-Dichloroethene | 1.0 | U | 0.30 | 1.0 |
| trans-1,2-Dichloroethene | 1.0 | U | 0.17 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.095 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.19 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.15 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.23 | 1.0 |
| 2-Hexanone | 5.0 | U | 0.16 | 5.0 |
| Methylene Chloride | 1.0 | U | 0.15 | 1.0 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 0.53 | 5.0 |
| Styrene | 1.0 | U | 0.097 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.20 | 1.0 |
| Tetrachloroethene | 1.0 | U | 0.15 | 1.0 |
| Toluene | 1.0 | U | 0.15 | 1.0 |
| 1,1,1-Trichloroethane | 1.0 | U | 0.29 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.20 | 1.0 |
| Trichloroethene | 1.0 | U | 0.14 | 1.0 |
| Vinyl chloride | 1.0 | U | 0.23 | 1.0 |
| Xylenes, Total | 3.0 | U | 0.49 | 3.0 |
| N-Propylbenzene | 1.0 | U | 0.20 | 1.0 |
| cis-1,2-Dichloroethene | 1.0 | U | 0.24 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.16 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.22 | 1.0 |
| Methyl tert-butyl ether | 1.0 | U | 0.18 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.12 | 1.0 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.15 | 1.0 |
| sec-Butylbenzene | 1.0 | U | 0.28 | 1.0 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.11 | 1.0 |
| p-Isopropyltoluene | 1.0 | U | 0.18 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.21 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.27 | 1.0 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **TC-1**

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 180-10937 | Instrument ID: | HP6 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | 60817013.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/17/2011 1224 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/17/2011 1224 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Chloromethane | 1.0 | U | 0.28 | 1.0 |
| n-Butylbenzene | 1.0 | U | 0.23 | 1.0 |
| m-Xylene & p-Xylene | 2.0 | U | 0.41 | 2.0 |
| Naphthalene | 1.0 | U | 0.078 | 1.0 |
| o-Xylene | 1.0 | U | 0.11 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.14 | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 80 | | 64 - 135 |
| Toluene-d8 (Surr) | 97 | | 71 - 118 |
| 4-Bromofluorobenzene (Surr) | 86 | | 70 - 118 |
| Dibromofluoromethane (Surr) | 90 | | 70 - 128 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **TC-1**

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 180-10937 | Instrument ID: | HP6 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | 60817013.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/17/2011 1224 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/17/2011 1224 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Benzene | 1.0 | U | 0.11 | 1.0 |
| Toluene | 1.0 | U | 0.15 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.23 | 1.0 |
| Xylenes, Total | 3.0 | U | 0.49 | 3.0 |
| Isopropylbenzene | 1.0 | U | 0.16 | 1.0 |
| Methyl tert-butyl ether | 1.0 | U | 0.18 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.12 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.22 | 1.0 |
| Naphthalene | 1.0 | U | 0.078 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.21 | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 80 | | 64 - 135 |
| Toluene-d8 (Surr) | 97 | | 71 - 118 |
| 4-Bromofluorobenzene (Surr) | 86 | | 70 - 118 |
| Dibromofluoromethane (Surr) | 90 | | 70 - 128 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **AW-2**

Lab Sample ID: 180-2644-2
Client Matrix: Water

Date Sampled: 08/04/2011 1320
Date Received: 08/05/2011 1000

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 180-10937 | Instrument ID: | HP6 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | 60817014.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/17/2011 1252 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/17/2011 1252 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Acetone | 5.0 | U | 2.5 | 5.0 |
| Benzene | 1.0 | U | 0.11 | 1.0 |
| Bromodichloromethane | 1.0 | U | 0.13 | 1.0 |
| Bromoform | 1.0 | U | 0.19 | 1.0 |
| Bromomethane | 1.0 | U | 0.31 | 1.0 |
| 2-Butanone (MEK) | 5.0 | U | 0.55 | 5.0 |
| Carbon disulfide | 1.0 | U | 0.21 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.14 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.14 | 1.0 |
| Chloroethane | 1.0 | U | 0.21 | 1.0 |
| Chloroform | 1.0 | U | 0.17 | 1.0 |
| 1,2-Dibromoethane (EDB) | 1.0 | U | 0.18 | 1.0 |
| 1,2-Dichloroethene, Total | 1.0 | U | 0.51 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.12 | 1.0 |
| Bromochloromethane | 1.0 | U | 0.18 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.21 | 1.0 |
| 1,1-Dichloroethene | 1.0 | U | 0.30 | 1.0 |
| trans-1,2-Dichloroethene | 1.0 | U | 0.17 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.095 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.19 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.15 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.23 | 1.0 |
| 2-Hexanone | 5.0 | U | 0.16 | 5.0 |
| Methylene Chloride | 1.0 | U | 0.15 | 1.0 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 0.53 | 5.0 |
| Styrene | 1.0 | U | 0.097 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.20 | 1.0 |
| Tetrachloroethene | 1.0 | U | 0.15 | 1.0 |
| Toluene | 1.0 | U | 0.15 | 1.0 |
| 1,1,1-Trichloroethane | 1.0 | U | 0.29 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.20 | 1.0 |
| Trichloroethene | 1.0 | U | 0.14 | 1.0 |
| Vinyl chloride | 1.0 | U | 0.23 | 1.0 |
| Xylenes, Total | 3.0 | U | 0.49 | 3.0 |
| N-Propylbenzene | 1.0 | U | 0.20 | 1.0 |
| cis-1,2-Dichloroethene | 1.0 | U | 0.24 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.16 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.22 | 1.0 |
| Methyl tert-butyl ether | 1.0 | U | 0.18 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.12 | 1.0 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.15 | 1.0 |
| sec-Butylbenzene | 1.0 | U | 0.28 | 1.0 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.11 | 1.0 |
| p-Isopropyltoluene | 1.0 | U | 0.18 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.21 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.27 | 1.0 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **AW-2**

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 180-10937 | Instrument ID: | HP6 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | 60817014.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/17/2011 1252 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/17/2011 1252 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Chloromethane | 1.0 | U | 0.28 | 1.0 |
| n-Butylbenzene | 1.0 | U | 0.23 | 1.0 |
| m-Xylene & p-Xylene | 2.0 | U | 0.41 | 2.0 |
| Naphthalene | 1.0 | U | 0.078 | 1.0 |
| o-Xylene | 1.0 | U | 0.11 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.14 | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 77 | | 64 - 135 |
| Toluene-d8 (Surr) | 98 | | 71 - 118 |
| 4-Bromofluorobenzene (Surr) | 88 | | 70 - 118 |
| Dibromofluoromethane (Surr) | 90 | | 70 - 128 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **AW-2**

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

**8260B Volatile Organic Compounds (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8260B | Analysis Batch: | 180-10937 | Instrument ID: | HP6 |
| Prep Method: | 5030B | Prep Batch: | N/A | Lab File ID: | 60817014.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 08/17/2011 1252 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 08/17/2011 1252 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Benzene | 1.0 | U | 0.11 | 1.0 |
| Toluene | 1.0 | U | 0.15 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.23 | 1.0 |
| Xylenes, Total | 3.0 | U | 0.49 | 3.0 |
| Isopropylbenzene | 1.0 | U | 0.16 | 1.0 |
| Methyl tert-butyl ether | 1.0 | U | 0.18 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.12 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.22 | 1.0 |
| Naphthalene | 1.0 | U | 0.078 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.21 | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (Surr) | 77 | | 64 - 135 |
| Toluene-d8 (Surr) | 98 | | 71 - 118 |
| 4-Bromofluorobenzene (Surr) | 88 | | 70 - 118 |
| Dibromofluoromethane (Surr) | 90 | | 70 - 128 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **TC-1**

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

**8270C LL Semivolatile Organic Compounds by GCMS - Low Levels**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270C LL | Analysis Batch: | 180-10588 | Instrument ID: | 731 |
| Prep Method: | 3520C | Prep Batch: | 180-9967 | Lab File ID: | V0813032.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 850 mL |
| Analysis Date: | 08/14/2011 0027 | | | Final Weight/Volume: | 1.0 mL |
| Prep Date: | 08/10/2011 0834 | | | Injection Volume: | 2 uL |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Acenaphthene | 0.24 | U | 0.017 | 0.24 |
| Acenaphthylene | 0.24 | U | 0.018 | 0.24 |
| Anthracene | 0.24 | U | 0.18 | 0.24 |
| Benzo[a]anthracene | 0.24 | U | 0.017 | 0.24 |
| Benzo[b]fluoranthene | 0.24 | U | 0.018 | 0.24 |
| Benzo[k]fluoranthene | 0.24 | U | 0.064 | 0.24 |
| Benzo[g,h,i]perylene | 0.24 | U | 0.018 | 0.24 |
| Benzo[a]pyrene | 0.24 | U | 0.016 | 0.24 |
| Bis(2-chloroethoxy)methane | 1.2 | U | 0.068 | 1.2 |
| Bis(2-chloroethyl)ether | 0.24 | U | 0.030 | 0.24 |
| Bis(2-ethylhexyl) phthalate | 2.4 | U | 1.5 | 2.4 |
| Butyl benzyl phthalate | 0.17 | J | 0.17 | 1.2 |
| Carbazole | 0.24 | U | 0.019 | 0.24 |
| Chrysene | 0.24 | U | 0.016 | 0.24 |
| 2-Chloronaphthalene | 0.24 | U | 0.018 | 0.24 |
| 2-Chlorophenol | 1.2 | U | 0.19 | 1.2 |
| 2,4-Dichlorophenol | 0.24 | U | 0.039 | 0.24 |
| 2,4-Dimethylphenol | 1.2 | U | 0.10 | 1.2 |
| 2,4-Dinitrophenol | 5.9 | U | 0.72 | 5.9 |
| 2,4-Dinitrotoluene | 1.2 | U | 0.063 | 1.2 |
| 1,2-Dichlorobenzene | 1.2 | U | 0.088 | 1.2 |
| 2-Methylnaphthalene | 0.24 | U | 0.014 | 0.24 |
| 1,3-Dichlorobenzene | 1.2 | U | 0.087 | 1.2 |
| 2-Methylphenol | 1.2 | U | 0.10 | 1.2 |
| 1,4-Dichlorobenzene | 1.2 | U | 0.088 | 1.2 |
| 2-Nitroaniline | 5.9 | U | 0.41 | 5.9 |
| 2-Nitrophenol | 1.2 | U | 0.20 | 1.2 |
| bis (2-chloroisopropyl) ether | 0.24 | U | 0.023 | 0.24 |
| 2,4,5-Trichlorophenol | 1.2 | U | 0.18 | 1.2 |
| 2,4,6-Trichlorophenol | 1.2 | U | 0.21 | 1.2 |
| 4-Nitroaniline | 5.9 | U | 0.20 | 5.9 |
| 4-Nitrophenol | 5.9 | U | 0.76 | 5.9 |
| 4-Chlorophenyl phenyl ether | 1.2 | U | 0.059 | 1.2 |
| Methylphenol, 3 & 4 | 1.2 | U | 0.11 | 1.2 |
| 4,6-Dinitro-2-methylphenol | 5.9 | U | 0.26 | 5.9 |
| 4-Chloroaniline | 1.2 | U | 0.10 | 1.2 |
| 4-Chloro-3-methylphenol | 1.2 | U | 0.089 | 1.2 |
| 4-Bromophenyl phenyl ether | 1.2 | U | 0.075 | 1.2 |
| Dibenz(a,h)anthracene | 0.24 | U | 0.018 | 0.24 |
| Dibenzofuran | 1.2 | U | 0.073 | 1.2 |
| Di-n-butyl phthalate | 0.87 | J | 0.15 | 1.2 |
| Diethyl phthalate | 1.2 | U | 0.17 | 1.2 |
| Dimethyl phthalate | 1.2 | U | 0.090 | 1.2 |
| Di-n-octyl phthalate | 1.2 | U | 0.24 | 1.2 |
| 3,3'-Dichlorobenzidine | 1.2 | U | 0.13 | 1.2 |
| 3-Nitroaniline | 5.9 | U | 0.38 | 5.9 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **TC-1**

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

**8270C LL Semivolatile Organic Compounds by GCMS - Low Levels**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270C LL | Analysis Batch: | 180-10588 | Instrument ID: | 731 |
| Prep Method: | 3520C | Prep Batch: | 180-9967 | Lab File ID: | V0813032.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 850 mL |
| Analysis Date: | 08/14/2011 0027 | | | Final Weight/Volume: | 1.0 mL |
| Prep Date: | 08/10/2011 0834 | | | Injection Volume: | 2 uL |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Fluoranthene | 0.24 | U | 0.019 | 0.24 |
| 1,2,4-Trichlorobenzene | 1.2 | U | 0.084 | 1.2 |
| Fluorene | 0.24 | U | 0.025 | 0.24 |
| Hexachlorobenzene | 0.24 | U | 0.022 | 0.24 |
| Hexachlorobutadiene | 0.24 | U | 0.020 | 0.24 |
| Hexachlorocyclopentadiene | 1.2 | U | 0.061 | 1.2 |
| Hexachloroethane | 1.2 | U | 0.074 | 1.2 |
| Indeno[1,2,3-cd]pyrene | 0.24 | U | 0.023 | 0.24 |
| Isophorone | 1.2 | U | 0.076 | 1.2 |
| Naphthalene | 0.24 | U | 0.016 | 0.24 |
| Nitrobenzene | 2.4 | U | 0.099 | 2.4 |
| N-Nitrosodiphenylamine | 1.2 | U | 0.10 | 1.2 |
| N-Nitrosodi-n-propylamine | 0.24 | U | 0.036 | 0.24 |
| Pyrene | 0.24 | U | 0.018 | 0.24 |
| Phenol | 0.24 | U | 0.068 | 0.24 |
| Phenanthrene | 0.24 | U | 0.050 | 0.24 |
| Pentachlorophenol | 1.2 | U | 0.078 | 1.2 |
| Benzyl alcohol | 1.2 | U | 0.25 | 1.2 |
| 2,6-Dichlorophenol | 1.2 | U | 0.24 | 1.2 |
| Benzoic acid | 5.9 | U | 0.66 | 5.9 |
| 1,2-Diphenylhydrazine(as Azobenzene) | 1.2 | U | 0.078 | 1.2 |
| 1-Methylnaphthalene | 0.24 | U | 0.016 | 0.24 |
| 2,6-Dinitrotoluene | 1.2 | U | 0.094 | 1.2 |
| N-Nitrosodimethylamine | 1.2 | U | 0.086 | 1.2 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 2,4,6-Tribromophenol | 55 | | 16 - 122 |
| 2-Fluorobiphenyl | 53 | | 19 - 107 |
| 2-Fluorophenol | 46 | | 10 - 111 |
| Nitrobenzene-d5 | 68 | | 23 - 112 |
| Phenol-d5 | 54 | | 15 - 112 |
| Terphenyl-d14 | 77 | | 10 - 132 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **TC-1**

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

**8270C LL Semivolatile Organic Compounds by GCMS - Low Levels**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270C LL | Analysis Batch: | 180-10588 | Instrument ID: | 731 |
| Prep Method: | 3520C | Prep Batch: | 180-9967 | Lab File ID: | V0813032.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 850 mL |
| Analysis Date: | 08/14/2011 0027 | | | Final Weight/Volume: | 1.0 mL |
| Prep Date: | 08/10/2011 0834 | | | Injection Volume: | 2 uL |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Anthracene | 0.24 | U | 0.18 | 0.24 |
| Benzo[a]anthracene | 0.24 | U | 0.017 | 0.24 |
| Benzo[b]fluoranthene | 0.24 | U | 0.018 | 0.24 |
| Benzo[g,h,i]perylene | 0.24 | U | 0.018 | 0.24 |
| Benzo[a]pyrene | 0.24 | U | 0.016 | 0.24 |
| Chrysene | 0.24 | U | 0.016 | 0.24 |
| Fluorene | 0.24 | U | 0.025 | 0.24 |
| Indeno[1,2,3-cd]pyrene | 0.24 | U | 0.023 | 0.24 |
| Phenanthrene | 0.24 | U | 0.050 | 0.24 |
| Pyrene | 0.24 | U | 0.018 | 0.24 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| Terphenyl-d14 | 77 | | 10 - 132 |
| Nitrobenzene-d5 | 68 | | 23 - 112 |
| 2-Fluorobiphenyl | 53 | | 19 - 107 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **AW-2**

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

**8270C LL Semivolatile Organic Compounds by GCMS - Low Levels**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270C LL | Analysis Batch: | 180-13666 | Instrument ID: | 731 |
| Prep Method: | 3520C | Prep Batch: | 180-9967 | Lab File ID: | V0813033.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 990 mL |
| Analysis Date: | 08/14/2011 0050 | | | Final Weight/Volume: | 1.0 mL |
| Prep Date: | 08/10/2011 0834 | | | Injection Volume: | 2 uL |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Acenaphthene | 0.20 | U | 0.015 | 0.20 |
| Acenaphthylene | 0.20 | U | 0.015 | 0.20 |
| Anthracene | 0.20 | U | 0.15 | 0.20 |
| Benzo[a]anthracene | 0.20 | U | 0.015 | 0.20 |
| Benzo[b]fluoranthene | 0.20 | U | 0.016 | 0.20 |
| Benzo[k]fluoranthene | 0.20 | U | 0.055 | 0.20 |
| Benzo[g,h,i]perylene | 0.20 | U | 0.015 | 0.20 |
| Benzo[a]pyrene | 0.20 | U | 0.014 | 0.20 |
| Bis(2-chloroethoxy)methane | 1.0 | U | 0.059 | 1.0 |
| Bis(2-chloroethyl)ether | 0.20 | U | 0.025 | 0.20 |
| Bis(2-ethylhexyl) phthalate | 2.0 | U | 1.3 | 2.0 |
| Butyl benzyl phthalate | 1.0 | U | 0.14 | 1.0 |
| Carbazole | 0.20 | U | 0.016 | 0.20 |
| Chrysene | 0.20 | U | 0.014 | 0.20 |
| 2-Chloronaphthalene | 0.20 | U | 0.015 | 0.20 |
| 2-Chlorophenol | 1.0 | U | 0.17 | 1.0 |
| 2,4-Dichlorophenol | 0.20 | U | 0.034 | 0.20 |
| 2,4-Dimethylphenol | 1.0 | U | 0.086 | 1.0 |
| 2,4-Dinitrophenol | 5.1 | U | 0.62 | 5.1 |
| 2,4-Dinitrotoluene | 1.0 | U | 0.054 | 1.0 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.076 | 1.0 |
| 2-Methylnaphthalene | 0.20 | U | 0.012 | 0.20 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.075 | 1.0 |
| 2-Methylphenol | 1.0 | U | 0.087 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.075 | 1.0 |
| 2-Nitroaniline | 5.1 | U | 0.36 | 5.1 |
| 2-Nitrophenol | 1.0 | U | 0.17 | 1.0 |
| bis (2-chloroisopropyl) ether | 0.20 | U | 0.020 | 0.20 |
| 2,4,5-Trichlorophenol | 1.0 | U | 0.15 | 1.0 |
| 2,4,6-Trichlorophenol | 1.0 | U | 0.18 | 1.0 |
| 4-Nitroaniline | 5.1 | U | 0.17 | 5.1 |
| 4-Nitrophenol | 5.1 | U | 0.65 | 5.1 |
| 4-Chlorophenyl phenyl ether | 1.0 | U | 0.051 | 1.0 |
| Methylphenol, 3 & 4 | 1.0 | U | 0.091 | 1.0 |
| 4,6-Dinitro-2-methylphenol | 5.1 | U | 0.22 | 5.1 |
| 4-Chloroaniline | 1.0 | U | 0.089 | 1.0 |
| 4-Chloro-3-methylphenol | 1.0 | U | 0.076 | 1.0 |
| 4-Bromophenyl phenyl ether | 1.0 | U | 0.064 | 1.0 |
| Dibenz(a,h)anthracene | 0.20 | U | 0.016 | 0.20 |
| Dibenzofuran | 1.0 | U | 0.062 | 1.0 |
| Di-n-butyl phthalate | 0.46 | J | 0.13 | 1.0 |
| Diethyl phthalate | 0.20 | J | 0.15 | 1.0 |
| Dimethyl phthalate | 1.0 | U | 0.077 | 1.0 |
| Di-n-octyl phthalate | 1.0 | U | 0.21 | 1.0 |
| 3,3'-Dichlorobenzidine | 1.0 | U | 0.11 | 1.0 |
| 3-Nitroaniline | 5.1 | U | 0.32 | 5.1 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **AW-2**

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

**8270C LL Semivolatile Organic Compounds by GCMS - Low Levels**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270C LL | Analysis Batch: | 180-13666 | Instrument ID: | 731 |
| Prep Method: | 3520C | Prep Batch: | 180-9967 | Lab File ID: | V0813033.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 990 mL |
| Analysis Date: | 08/14/2011 0050 | | | Final Weight/Volume: | 1.0 mL |
| Prep Date: | 08/10/2011 0834 | | | Injection Volume: | 2 uL |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Fluoranthene | 0.20 | U | 0.016 | 0.20 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.072 | 1.0 |
| Fluorene | 0.20 | U | 0.022 | 0.20 |
| Hexachlorobenzene | 0.20 | U | 0.018 | 0.20 |
| Hexachlorobutadiene | 0.20 | U | 0.017 | 0.20 |
| Hexachlorocyclopentadiene | 1.0 | U | 0.052 | 1.0 |
| Hexachloroethane | 1.0 | U | 0.063 | 1.0 |
| Indeno[1,2,3-cd]pyrene | 0.20 | U | 0.020 | 0.20 |
| Isophorone | 1.0 | U | 0.065 | 1.0 |
| Naphthalene | 0.20 | U | 0.014 | 0.20 |
| Nitrobenzene | 2.0 | U | 0.085 | 2.0 |
| N-Nitrosodiphenylamine | 1.0 | U | 0.086 | 1.0 |
| N-Nitrosodi-n-propylamine | 0.20 | U | 0.031 | 0.20 |
| Pyrene | 0.20 | U | 0.016 | 0.20 |
| Phenol | 0.20 | U | 0.059 | 0.20 |
| Phenanthrene | 0.20 | U | 0.043 | 0.20 |
| Pentachlorophenol | 1.0 | U | 0.067 | 1.0 |
| Benzyl alcohol | 1.0 | U | 0.22 | 1.0 |
| 2,6-Dichlorophenol | 1.0 | U | 0.20 | 1.0 |
| Benzoic acid | 5.1 | U | 0.57 | 5.1 |
| 1,2-Diphenylhydrazine(as Azobenzene) | 1.0 | U | 0.067 | 1.0 |
| 1-Methylnaphthalene | 0.20 | U | 0.014 | 0.20 |
| 2,6-Dinitrotoluene | 1.0 | U | 0.081 | 1.0 |
| N-Nitrosodimethylamine | 1.0 | U | 0.074 | 1.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 2,4,6-Tribromophenol | 70 | | 16 - 122 |
| 2-Fluorobiphenyl | 68 | | 19 - 107 |
| 2-Fluorophenol | 57 | | 10 - 111 |
| Nitrobenzene-d5 | 75 | | 23 - 112 |
| Phenol-d5 | 70 | | 15 - 112 |
| Terphenyl-d14 | 81 | | 10 - 132 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **AW-2**

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

**8270C LL Semivolatile Organic Compounds by GCMS - Low Levels**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8270C LL | Analysis Batch: | 180-13666 | Instrument ID: | 731 |
| Prep Method: | 3520C | Prep Batch: | 180-9967 | Lab File ID: | V0813033.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 990 mL |
| Analysis Date: | 08/14/2011 0050 | | | Final Weight/Volume: | 1.0 mL |
| Prep Date: | 08/10/2011 0834 | | | Injection Volume: | 2 uL |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Anthracene | 0.20 | U | 0.15 | 0.20 |
| Benzo[a]anthracene | 0.20 | U | 0.015 | 0.20 |
| Benzo[b]fluoranthene | 0.20 | U | 0.016 | 0.20 |
| Benzo[g,h,i]perylene | 0.20 | U | 0.015 | 0.20 |
| Benzo[a]pyrene | 0.20 | U | 0.014 | 0.20 |
| Chrysene | 0.20 | U | 0.014 | 0.20 |
| Fluorene | 0.20 | U | 0.022 | 0.20 |
| Indeno[1,2,3-cd]pyrene | 0.20 | U | 0.020 | 0.20 |
| Phenanthrene | 0.20 | U | 0.043 | 0.20 |
| Pyrene | 0.20 | U | 0.016 | 0.20 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| Terphenyl-d14 | 81 | | 10 - 132 |
| Nitrobenzene-d5 | 75 | | 23 - 112 |
| 2-Fluorobiphenyl | 68 | | 19 - 107 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **TC-1**

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

**8015B Gasoline Range Organics - (GC)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8015B | Analysis Batch: | 480-27055 | Instrument ID: | HP5890-23 |
| Prep Method: | 5030B | | N/A | Initial Weight/Volume: | 44 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 44 mL |
| Analysis Date: | 08/11/2011 0354 | | | Injection Volume: | |
| Prep Date: | 08/11/2011 0354 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| GRO (C6-C10) | 25 | U | 4.2 | 25 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| a,a,a-Trifluorotoluene | 96 | | 63 - 128 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **TC-1**

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

**8015B Glycols -Direct Injection (GC/FID)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8015B | Analysis Batch: | 480-27383 | Instrument ID: | PE-01 |
| Prep Method: | 8015 Prep | Prep Batch: | 480-27399 | Initial Weight/Volume: | .5 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 1 mL |
| Analysis Date: | 08/12/2011 1949 | | | Injection Volume: | 1 uL |
| Prep Date: | 08/12/2011 1936 | | | Result Type: | PRIMARY |

| Analyte | Result (mg/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Ethylene glycol | 10 | U | 0.76 | 10 |
| Propylene glycol | 10 | U | 0.76 | 10 |
| Triethylene Glycol | 2.7 | J B | 1.6 | 10 |
| 2,2'-Oxybisethanol | 1.8 | J | 0.51 | 10 |
| 2-Methoxyethanol | 10 | U | 0.76 | 10 |
| 2-Ethoxyethanol | 10 | U | 0.94 | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,4-Butanediol | 108 | | 66 - 130 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **AW-2**

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

**8015B Gasoline Range Organics - (GC)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8015B | Analysis Batch: | 480-27055 | Instrument ID: | HP5890-23 |
| Prep Method: | 5030B | | N/A | Initial Weight/Volume: | 44 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 44 mL |
| Analysis Date: | 08/11/2011 0429 | | | Injection Volume: | |
| Prep Date: | 08/11/2011 0429 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| GRO (C6-C10) | 17 | J | 4.2 | 25 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| a,a,a-Trifluorotoluene | 96 | | 63 - 128 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **AW-2**

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

**8015B Glycols -Direct Injection (GC/FID)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8015B | Analysis Batch: | 480-27383 | Instrument ID: | PE-01 |
| Prep Method: | 8015 Prep | Prep Batch: | 480-27399 | Initial Weight/Volume: | .5 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 1 mL |
| Analysis Date: | 08/12/2011 2002 | | | Injection Volume: | 1 uL |
| Prep Date: | 08/12/2011 1936 | | | Result Type: | PRIMARY |

| Analyte | Result (mg/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Ethylene glycol | 10 | U | 0.76 | 10 |
| Propylene glycol | 10 | U | 0.76 | 10 |
| Triethylene Glycol | 10 | U | 1.6 | 10 |
| 2,2'-Oxybisethanol | 0.58 | J | 0.51 | 10 |
| 2-Methoxyethanol | 10 | U | 0.76 | 10 |
| 2-Ethoxyethanol | 10 | U | 0.94 | 10 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,4-Butanediol | 102 | | 66 - 130 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **TC-1**

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

**RSK-175 Dissolved Gases (GC)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | RSK-175 | Analysis Batch: | 480-26879 | Instrument ID: | HP5890-21 |
| | N/A | | N/A | Initial Weight/Volume: | 1 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 1.0 mL |
| Analysis Date: | 08/10/2011 1621 | | | Injection Volume: | 1 uL |
| Prep Date: | N/A | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Ethane | 1.5 | U | 0.49 | 1.5 |
| Ethene | 1.5 | U | 0.52 | 1.5 |
| Methane | 18 | | 0.22 | 1.0 |
| Propane | 3.0 | U | 1.5 | 3.0 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **AW-2**

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

**RSK-175 Dissolved Gases (GC)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | RSK-175 | Analysis Batch: | 480-26879 | Instrument ID: | HP5890-21 |
| | N/A | | N/A | Initial Weight/Volume: | 1 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 1.0 mL |
| Analysis Date: | 08/10/2011 1635 | | | Injection Volume: | 1 uL |
| Prep Date: | N/A | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Ethane | 1.5 | U | 0.49 | 1.5 |
| Ethene | 1.5 | U | 0.52 | 1.5 |
| Methane | 1.0 | U | 0.22 | 1.0 |
| Propane | 3.0 | U | 1.5 | 3.0 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **TC-1**

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

**8011 EDB, DBCP, and 1,2,3-TCP (GC)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8011 | Analysis Batch: | 180-11141 | Instrument ID: | GC12 |
| Prep Method: | 8011 | Prep Batch: | 180-10157 | Initial Weight/Volume: | 34.5 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 34.5 mL |
| Analysis Date: | 08/15/2011 1505 | | | Injection Volume: | 1 uL |
| Prep Date: | 08/10/2011 1126 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Ethylene Dibromide | 0.020 | U | 0.0012 | 0.020 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 99 | | 60 - 140 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **AW-2**

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

**8011 EDB, DBCP, and 1,2,3-TCP (GC)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8011 | Analysis Batch: | 180-11141 | Instrument ID: | GC12 |
| Prep Method: | 8011 | Prep Batch: | 180-10157 | Initial Weight/Volume: | 35.3 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 35.3 mL |
| Analysis Date: | 08/15/2011 1534 | | | Injection Volume: | 1 uL |
| Prep Date: | 08/10/2011 1126 | | | Result Type: | PRIMARY |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Ethylene Dibromide | 0.020 | U | 0.0012 | 0.020 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | 106 | | 60 - 140 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **TC-1**

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

**8015B Diesel Range Organics (DRO) (GC)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8015B | Analysis Batch: | 480-27105 | Instrument ID: | HP5890-24 |
| Prep Method: | 3510C | Prep Batch: | 480-27037 | Initial Weight/Volume: | 1025 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 1 mL |
| Analysis Date: | 08/12/2011 1420 | | | Injection Volume: | 1 uL |
| Prep Date: | 08/10/2011 1816 | | | Result Type: | PRIMARY |

| Analyte | Result (mg/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 0.49 | U | 0.30 | 0.49 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| o-Terphenyl | 77 | | 44 - 154 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **AW-2**

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

**8015B Diesel Range Organics (DRO) (GC)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 8015B | Analysis Batch: | 480-27105 | Instrument ID: | HP5890-24 |
| Prep Method: | 3510C | Prep Batch: | 480-27037 | Initial Weight/Volume: | 950 mL |
| Dilution: | 1.0 | | | Final Weight/Volume: | 1 mL |
| Analysis Date: | 08/12/2011 1453 | | | Injection Volume: | 1 uL |
| Prep Date: | 08/10/2011 1816 | | | Result Type: | PRIMARY |

| Analyte | Result (mg/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 0.53 | U | 0.33 | 0.53 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|---|---|---|---|
| o-Terphenyl | 71 | | 44 - 154 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **TC-1**

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

**6020 Metals (ICP/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6020 | Analysis Batch: | 180-10963 | Instrument ID: | X |
| Prep Method: | 3010A | Prep Batch: | 180-10417 | Lab File ID: | X10816A.xml |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 08/16/2011 1459 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 08/12/2011 0951 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Silver | 1.0 | U | 0.036 | 1.0 |
| Aluminum | 3.8 | J | 2.6 | 30 |
| Arsenic | 2.2 | | 0.29 | 1.0 |
| Barium | 210 | | 0.098 | 10 |
| Boron | 24 | B | 0.28 | 5.0 |
| Beryllium | 1.0 | U | 0.037 | 1.0 |
| Calcium | 22000 | | 2.8 | 100 |
| Cadmium | 1.0 | U | 0.11 | 1.0 |
| Cobalt | 0.051 | J | 0.026 | 0.50 |
| Chromium | 1.3 | J | 0.54 | 2.0 |
| Copper | 1.1 | J | 0.24 | 2.0 |
| Iron | 1100 | | 6.1 | 50 |
| Potassium | 880 | | 5.8 | 100 |
| Magnesium | 4800 | | 1.2 | 100 |
| Manganese | 190 | B | 0.039 | 0.50 |
| Sodium | 18000 | | 3.8 | 100 |
| Nickel | 1.0 | U | 0.17 | 1.0 |
| Lead | 0.11 | J B | 0.019 | 1.0 |
| Molybdenum | 0.49 | J B | 0.22 | 5.0 |
| Antimony | 0.019 | J B | 0.019 | 2.0 |
| Selenium | 0.76 | J | 0.42 | 5.0 |
| Thallium | 1.0 | U | 0.015 | 1.0 |
| Vanadium | 1.0 | U | 0.082 | 1.0 |
| Zinc | 2.6 | J B | 0.96 | 5.0 |

**6020 Metals (ICP/MS)-Dissolved**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6020 | Analysis Batch: | 180-11743 | Instrument ID: | X |
| Prep Method: | 3005A | Prep Batch: | 180-10641 | Lab File ID: | X10823A.xml |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 08/23/2011 2019 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 08/15/2011 1131 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Silver | 1.0 | U | 0.036 | 1.0 |
| Aluminum | 30 | U | 2.6 | 30 |
| Arsenic | 0.77 | J | 0.29 | 1.0 |
| Barium | 210 | | 0.098 | 10 |
| Boron | 25 | B | 0.28 | 5.0 |
| Beryllium | 1.0 | U | 0.037 | 1.0 |
| Calcium | 26000 | | 2.8 | 100 |
| Cadmium | 1.0 | U | 0.11 | 1.0 |
| Cobalt | 0.089 | J | 0.026 | 0.50 |
| Chromium | 3.6 | | 0.54 | 2.0 |
| Copper | 0.90 | J | 0.24 | 2.0 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **TC-1**

Lab Sample ID: 180-2644-1
Client Matrix: Water

Date Sampled: 08/04/2011 0930
Date Received: 08/05/2011 1000

**6020 Metals (ICP/MS)-Dissolved**

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Iron | 27 | J | 6.1 | 50 |
| Potassium | 1100 | | 5.8 | 100 |
| Magnesium | 5200 | | 1.2 | 100 |
| Manganese | 200 | | 0.039 | 0.50 |
| Sodium | 19000 | | 3.8 | 100 |
| Nickel | 0.51 | J | 0.17 | 1.0 |
| Lead | 0.14 | J | 0.019 | 1.0 |
| Molybdenum | 1.3 | J B | 0.22 | 5.0 |
| Antimony | 0.65 | J B | 0.019 | 2.0 |
| Selenium | 0.55 | J | 0.42 | 5.0 |
| Thallium | 0.025 | J | 0.015 | 1.0 |
| Vanadium | 1.0 | U | 0.082 | 1.0 |
| Zinc | 2.8 | J | 0.96 | 5.0 |

**7470A Mercury (CVAA)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 7470A | Analysis Batch: | 180-11038 | Instrument ID: | G |
| Prep Method: | 7470A | Prep Batch: | 180-10958 | Lab File ID: | G10817B.PRN |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50.0 mL |
| Analysis Date: | 08/17/2011 1629 | | | Final Weight/Volume: | 50.0 mL |
| Prep Date: | 08/17/2011 1138 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Mercury | 0.20 | U | 0.038 | 0.20 |

**7470A Mercury (CVAA)-Dissolved**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 7470A | Analysis Batch: | 180-11038 | Instrument ID: | G |
| Prep Method: | 7470A | Prep Batch: | 180-10958 | Lab File ID: | G10817B.PRN |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50.0 mL |
| Analysis Date: | 08/17/2011 1631 | | | Final Weight/Volume: | 50.0 mL |
| Prep Date: | 08/17/2011 1138 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Mercury | 0.20 | U | 0.038 | 0.20 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **AW-2**

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

**6020 Metals (ICP/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6020 | Analysis Batch: | 180-10963 | Instrument ID: | X |
| Prep Method: | 3010A | Prep Batch: | 180-10417 | Lab File ID: | X10816A.xml |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 08/16/2011 1517 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 08/12/2011 0951 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Silver | 1.0 | U | 0.036 | 1.0 |
| Aluminum | 3.0 | J | 2.6 | 30 |
| Arsenic | 0.47 | J | 0.29 | 1.0 |
| Barium | 130 | | 0.098 | 10 |
| Boron | 13 | B | 0.28 | 5.0 |
| Beryllium | 1.0 | U | 0.037 | 1.0 |
| Calcium | 27000 | | 2.8 | 100 |
| Cadmium | 1.0 | U | 0.11 | 1.0 |
| Cobalt | 0.067 | J | 0.026 | 0.50 |
| Chromium | 2.0 | | 0.54 | 2.0 |
| Copper | 0.64 | J | 0.24 | 2.0 |
| Iron | 50 | U | 6.1 | 50 |
| Potassium | 1500 | | 5.8 | 100 |
| Magnesium | 7700 | | 1.2 | 100 |
| Manganese | 0.42 | J B | 0.039 | 0.50 |
| Sodium | 7300 | | 3.8 | 100 |
| Nickel | 1.0 | U | 0.17 | 1.0 |
| Lead | 0.027 | J B | 0.019 | 1.0 |
| Molybdenum | 0.55 | J B | 0.22 | 5.0 |
| Antimony | 0.78 | J B | 0.019 | 2.0 |
| Selenium | 0.84 | J | 0.42 | 5.0 |
| Thallium | 1.0 | U | 0.015 | 1.0 |
| Vanadium | 1.0 | U | 0.082 | 1.0 |
| Zinc | 4.2 | J B | 0.96 | 5.0 |

**6020 Metals (ICP/MS)-Dissolved**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 6020 | Analysis Batch: | 180-11743 | Instrument ID: | X |
| Prep Method: | 3005A | Prep Batch: | 180-10641 | Lab File ID: | X10823A.xml |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50 mL |
| Analysis Date: | 08/23/2011 2023 | | | Final Weight/Volume: | 50 mL |
| Prep Date: | 08/15/2011 1131 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Silver | 1.0 | U | 0.036 | 1.0 |
| Aluminum | 30 | U | 2.6 | 30 |
| Arsenic | 1.0 | U | 0.29 | 1.0 |
| Barium | 130 | | 0.098 | 10 |
| Boron | 14 | B | 0.28 | 5.0 |
| Beryllium | 1.0 | U | 0.037 | 1.0 |
| Calcium | 31000 | | 2.8 | 100 |
| Cadmium | 1.0 | U | 0.11 | 1.0 |
| Cobalt | 0.11 | J | 0.026 | 0.50 |
| Chromium | 4.3 | | 0.54 | 2.0 |
| Copper | 0.77 | J | 0.24 | 2.0 |

Client: URS Corporation

Job Number: 180-2644-1

**Client Sample ID:** **AW-2**

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

**6020 Metals (ICP/MS)-Dissolved**

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Iron | 50 | U | 6.1 | 50 |
| Potassium | 1800 | | 5.8 | 100 |
| Magnesium | 8200 | | 1.2 | 100 |
| Manganese | 0.45 | J | 0.039 | 0.50 |
| Sodium | 8100 | | 3.8 | 100 |
| Nickel | 0.44 | J | 0.17 | 1.0 |
| Lead | 0.092 | J | 0.019 | 1.0 |
| Molybdenum | 0.56 | J B | 0.22 | 5.0 |
| Antimony | 0.23 | J B | 0.019 | 2.0 |
| Selenium | 5.0 | U | 0.42 | 5.0 |
| Thallium | 0.021 | J | 0.015 | 1.0 |
| Vanadium | 1.0 | U | 0.082 | 1.0 |
| Zinc | 2.3 | J | 0.96 | 5.0 |

**7470A Mercury (CVAA)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 7470A | Analysis Batch: | 180-11038 | Instrument ID: | G |
| Prep Method: | 7470A | Prep Batch: | 180-10958 | Lab File ID: | G10817B.PRN |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50.0 mL |
| Analysis Date: | 08/17/2011 1633 | | | Final Weight/Volume: | 50.0 mL |
| Prep Date: | 08/17/2011 1138 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Mercury | 0.20 | U | 0.038 | 0.20 |

**7470A Mercury (CVAA)-Dissolved**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | 7470A | Analysis Batch: | 180-11038 | Instrument ID: | G |
| Prep Method: | 7470A | Prep Batch: | 180-10958 | Lab File ID: | G10817B.PRN |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 50.0 mL |
| Analysis Date: | 08/17/2011 1635 | | | Final Weight/Volume: | 50.0 mL |
| Prep Date: | 08/17/2011 1138 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Mercury | 0.20 | U | 0.038 | 0.20 |

**General Chemistry**

**Client Sample ID:** **TC-1**

Lab Sample ID: 180-2644-1

Client Matrix: Water

Date Sampled: 08/04/2011 0930

Date Received: 08/05/2011 1000

| Analyte | Result | Qual | Units | MDL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 6.3 | U | mg/L | 1.9 | 6.3 | 1.0 | 1664A |
| Analysis Batch: 180-10137 | Analysis Date: 08/10/2011 1026 | | | | | | |
| Prep Batch: 180-10043 | Prep Date: 08/09/2011 1507 | | | | | | |
| Chloride | 2.1 | | mg/L | 0.20 | 1.0 | 1.0 | 300.0 |
| Analysis Batch: 180-9894 | Analysis Date: 08/06/2011 1224 | | | | | | |
| Ammonia, distilled | 0.15 | B | mg/L | 0.033 | 0.10 | 1.0 | 350.1 |
| Analysis Batch: 180-10679 | Analysis Date: 08/15/2011 1237 | | | | | | |
| Prep Batch: 180-10516 | Prep Date: 08/13/2011 0913 | | | | | | |
| Acidity | 5.0 | U | mg/L | 5.0 | 5.0 | 1.0 | SM 2310B |
| Analysis Batch: 180-9905 | Analysis Date: 08/08/2011 1550 | | | | | | |
| Alkalinity | 120 | B | mg/L | 0.41 | 5.0 | 1.0 | SM 2320B |
| Analysis Batch: 180-9937 | Analysis Date: 08/08/2011 2057 | | | | | | |
| Total Dissolved Solids | 220 | | mg/L | 10 | 10 | 1.0 | SM 2540C |
| Analysis Batch: 180-9706 | Analysis Date: 08/05/2011 1524 | | | | | | |
| Total Suspended Solids | 4.0 | U | mg/L | 2.0 | 4.0 | 1.0 | SM 2540D |
| Analysis Batch: 180-9707 | Analysis Date: 08/05/2011 1527 | | | | | | |
| pH | 7.35 | HF | SU | 0.100 | 0.100 | 1.0 | SM 4500 H+ B |
| Analysis Batch: 180-9633 | Analysis Date: 08/05/2011 1346 | | | | | | |
| Methylene Blue Active Substances | 0.050 | U | mg/L | 0.013 | 0.050 | 1.0 | SM 5540C |
| Analysis Batch: 180-9731 | Analysis Date: 08/06/2011 0925 | | | | | | |

**General Chemistry**

**Client Sample ID:** **AW-2**

Lab Sample ID: 180-2644-2

Client Matrix: Water

Date Sampled: 08/04/2011 1320

Date Received: 08/05/2011 1000

| Analyte | Result | Qual | Units | MDL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| HEM (Oil and Grease) | 4.8 | U | mg/L | 1.4 | 4.8 | 1.0 | 1664A |
| Analysis Batch: 180-10137 | Analysis Date: 08/10/2011 1026 | | | | | | |
| Prep Batch: 180-10043 | Prep Date: 08/09/2011 1507 | | | | | | |
| Chloride | 21 | | mg/L | 0.20 | 1.0 | 1.0 | 300.0 |
| Analysis Batch: 180-9894 | Analysis Date: 08/06/2011 1238 | | | | | | |
| Ammonia, distilled | 0.10 | B | mg/L | 0.033 | 0.10 | 1.0 | 350.1 |
| Analysis Batch: 180-10679 | Analysis Date: 08/15/2011 1238 | | | | | | |
| Prep Batch: 180-10516 | Prep Date: 08/13/2011 0913 | | | | | | |
| Acidity | 5.0 | U | mg/L | 5.0 | 5.0 | 1.0 | SM 2310B |
| Analysis Batch: 180-9905 | Analysis Date: 08/08/2011 1550 | | | | | | |
| Alkalinity | 89 | B | mg/L | 0.41 | 5.0 | 1.0 | SM 2320B |
| Analysis Batch: 180-9937 | Analysis Date: 08/08/2011 2107 | | | | | | |
| Total Dissolved Solids | 280 | | mg/L | 10 | 10 | 1.0 | SM 2540C |
| Analysis Batch: 180-9706 | Analysis Date: 08/05/2011 1524 | | | | | | |
| Total Suspended Solids | 4.0 | U | mg/L | 2.0 | 4.0 | 1.0 | SM 2540D |
| Analysis Batch: 180-9707 | Analysis Date: 08/05/2011 1527 | | | | | | |
| pH | 6.82 | HF | SU | 0.100 | 0.100 | 1.0 | SM 4500 H+ B |
| Analysis Batch: 180-9633 | Analysis Date: 08/05/2011 1347 | | | | | | |
| Methylene Blue Active Substances | 0.050 | U | mg/L | 0.013 | 0.050 | 1.0 | SM 5540C |
| Analysis Batch: 180-9749 | Analysis Date: 08/06/2011 1140 | | | | | | |

Client: URS Corporation

Job Number: 180-2644-1

## Surrogate Recovery Report

**8260B Volatile Organic Compounds (GC/MS)**

**Client Matrix: Water**

| Lab Sample ID | Client Sample ID | DBFM %Rec | DCA %Rec | TOL %Rec | BFB %Rec |
|---|---|---|---|---|---|
| 180-2644-1 | TC-1 | 90 | 80 | 97 | 86 |
| 180-2644-2 | AW-2 | 90 | 77 | 98 | 88 |
| MB 180-10937/3 | | 92 | 77 | 102 | 88 |
| LCS 180-10937/4 | | 86 | 69 | 97 | 86 |
| LCSD 180-10937/5 | | 89 | 69 | 98 | 85 |

| Surrogate | Acceptance Limits |
|---|---|
| DBFM = Dibromofluoromethane (Surr) | 70-128 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 64-135 |
| TOL = Toluene-d8 (Surr) | 71-118 |
| BFB = 4-Bromofluorobenzene (Surr) | 70-118 |

Client: URS Corporation

Job Number: 180-2644-1

## Surrogate Recovery Report

**8270C LL Semivolatile Organic Compounds by GCMS - Low Levels**

**Client Matrix: Water**

| Lab Sample ID | Client Sample ID | 2FP %Rec | PHL %Rec | NBZ %Rec | FBP %Rec | TBP %Rec | TPH %Rec |
|---|---|---|---|---|---|---|---|
| 180-2644-1 | TC-1 | 46 | 54 | 68 | 53 | 55 | 77 |
| 180-2644-2 | AW-2 | 57 | 70 | 75 | 68 | 70 | 81 |
| MB 180-9967/1-A | | 92 | 91 | 83 | 79 | 76 | 90 |
| LCS 180-9967/2-A | | 70 | 70 | 67 | 65 | 78 | 76 |
| LCSD 180-9967/3-A | | 69 | 68 | 67 | 66 | 81 | 74 |

| Surrogate | Acceptance Limits |
|---|---|
| 2FP = 2-Fluorophenol | 10-111 |
| PHL = Phenol-d5 | 15-112 |
| NBZ = Nitrobenzene-d5 | 23-112 |
| FBP = 2-Fluorobiphenyl | 19-107 |
| TBP = 2,4,6-Tribromophenol | 16-122 |
| TPH = Terphenyl-d14 | 10-132 |

Client: URS Corporation

Job Number: 180-2644-1

## Surrogate Recovery Report

**8011 EDB, DBCP, and 1,2,3-TCP (GC)**

**Client Matrix: Water**

| Lab Sample ID | Client Sample ID | TCEA2 %Rec | TCEA1 %Rec |
|---|---|---|---|
| 180-2644-1 | TC-1 | 99 | |
| 180-2644-1 | TC-1 | | 92 |
| 180-2644-2 | AW-2 | 106 | |
| 180-2644-2 | AW-2 | | 97 |
| MB 180-10157/8-A | | 98 | |
| MB 180-10157/8-A | | | 95 |
| LCS 180-10157/9-A | | 100 | |
| LCS 180-10157/9-A | | | 97 |
| LCSD 180-10157/10-A | | 100 | |
| LCSD 180-10157/10-A | | | 96 |

| Surrogate | Acceptance Limits |
|---|---|
| TCEA = 1,1,1,2-Tetrachloroethane | 60-140 |

Client: URS Corporation

Job Number: 180-2644-1

## Surrogate Recovery Report

**8015B Glycols -Direct Injection (GC/FID)**

**Client Matrix: Water**

| Lab Sample ID | Client Sample ID | 14BD1 %Rec |
|---|---|---|
| 180-2644-1 | TC-1 | 108 |
| 180-2644-2 | AW-2 | 102 |
| MB 480-27399/1-A | | 99 |
| LCS 480-27399/2-A | | 108 |
| 480-8430-Q-3-B MS | | 109 |
| 480-8430-Q-3-C MSD | | 112 |

| Surrogate | Acceptance Limits |
|---|---|
| 14BD = 1,4-Butanediol | 66-130 |

Client: URS Corporation

Job Number: 180-2644-1

## Surrogate Recovery Report

**8015B Gasoline Range Organics - (GC)**

**Client Matrix: Water**

| Lab Sample ID | Client Sample ID | TFT2 %Rec |
|---|---|---|
| 180-2644-1 | TC-1 | 96 |
| 180-2644-2 | AW-2 | 96 |
| MB 480-27055/3 | | 97 |
| LCS 480-27055/4 | | 113 |
| LCSD 480-27055/5 | | 113 |

| Surrogate | Acceptance Limits |
|---|---|
| TFT = a,a,a-Trifluorotoluene | 63-128 |

Client: URS Corporation

Job Number: 180-2644-1

## Surrogate Recovery Report

**8015B Diesel Range Organics (DRO) (GC)**

**Client Matrix: Water**

| Lab Sample ID | Client Sample ID | OTPH1 %Rec |
|---|---|---|
| 180-2644-1 | TC-1 | 77 |
| 180-2644-2 | AW-2 | 71 |
| MB 480-27037/1-A | | 75 |
| LCS 480-27037/2-A | | 75 |
| LCSD 480-27037/3-A | | 80 |

| Surrogate | Acceptance Limits |
|---|---|
| OTPH = o-Terphenyl | 44-154 |