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## Certifications

**WBENC:** 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
**NCTRCA** WFWB38444Y0909

## NELAP Certifications

**Lubbock:** T104704219-08-TX
LELAP-02003
Kansas E-10317

**El Paso:** T104704221-08-TX
LELAP-02002

**Midland:** T104704392-08-TX

# Analytical and Quality Control Report

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Report Date: September 4, 2009

Work Order: 9082429

Project Name: HELSTF Construction Landfill Groundwater

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|---|---|---|---|---|---|
| 207473 | HLSF-3839-HMW-029-0809 | water | 2009-08-20 | 12:54 | 2009-08-20 |

**Comment(s)**

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 80 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

*For inorganic analyses, the term MQL should actually read PQL.*

**Standard Flags**

**U** - Not detected. The analyte is not detected above the SDL.
**J** - Estimated. The analyte is positively identified and the value is approximated between the SDL and MQL.
**B** - The sample contains less than ten times the concentration found in the method blank.
**JB** - The analyte is positively identified and the value is approximated between the SDL and MQL.
The sample contains less than ten times the concentration found in the method blank.
The result should be considered non-detect to the SDL.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

# Case Narrative

Samples for project HELSTF Construction Landfill Groundwater were received by TraceAnalysis, Inc. on 2009-08-20 and assigned to work order 9082429. Samples for work order 9082429 were received intact without headspace and at a temperature of 16.0 deg. C (on ice).

Samples were analyzed for the following tests using their respective methods.

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|---|---|---|---|---|---|
| Ag, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| Alkalinity | SM 2320B | 53964 | 2009-09-01 at 13:00 | 63228 | 2009-09-01 at 13:00 |
| Al, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| Ammonia | SM 4500-NH3 B,C | 53749 | 2009-08-26 at 13:00 | 62985 | 2009-08-26 at 15:00 |
| As, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| Ba, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| Be, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| Bromide (IC) | E 300.0 | 53693 | 2009-08-25 at 14:00 | 62908 | 2009-08-26 at 01:54 |
| Ca, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62934 | 2009-08-27 at 08:43 |
| Cd, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| Chloride (IC) | E 300.0 | 53722 | 2009-08-26 at 11:39 | 62950 | 2009-08-26 at 17:34 |
| Chromium, Hexavalent | SM 3500-Cr B | 53772 | 2009-08-21 at 09:40 | 63011 | 2009-08-21 at 09:40 |
| Co, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| Cr, Dissolved | S 6010B | 53950 | 2009-09-03 at 08:06 | 63220 | 2009-09-03 at 10:38 |
| Cr, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| Cu, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| Explosives (8330) | S 8330-C18 | 53708 | 2009-08-26 at 15:00 | 62929 | 2009-08-26 at 18:52 |
| Fe, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| Fluoride (IC) | E 300.0 | 53693 | 2009-08-25 at 14:00 | 62908 | 2009-08-26 at 01:54 |
| Hg, Total | S 7470A | 53720 | 2009-08-27 at 12:36 | 62974 | 2009-08-27 at 16:05 |
| K, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62934 | 2009-08-27 at 08:43 |
| Mg, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62934 | 2009-08-27 at 08:43 |
| Mn, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| Mo, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| Na, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62934 | 2009-08-27 at 08:43 |
| Ni, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| Nitrate and Nitrite as N | SM 4500-NO3 E | 53917 | 2009-08-28 at 11:24 | 63168 | 2009-08-28 at 11:26 |
| O/G | E 1664 | 54005 | 2009-09-01 at 10:47 | 63270 | 2009-09-02 at 13:25 |
| Pb, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| Pesticides | S 8081A | 53706 | 2009-08-26 at 15:00 | 62924 | 2009-08-26 at 16:11 |
| pH | SM 4500-H+ | 53837 | 2009-08-21 at 11:45 | 63078 | 2009-08-21 at 11:45 |
| P, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| Sb, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| Semivolatiles | S 8270C | 53805 | 2009-08-28 at 15:00 | 63035 | 2009-08-28 at 16:42 |
| Se, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| SO4 (IC) | E 300.0 | 53693 | 2009-08-25 at 14:00 | 62908 | 2009-08-26 at 01:54 |
| TDS | SM 2540C | 53777 | 2009-08-21 at 14:50 | 63016 | 2009-08-21 at 14:50 |
| TKN | E 351.3 | 53865 | 2009-08-31 at 12:00 | 63112 | 2009-08-31 at 19:00 |
| Tl, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| TOC | SM 5310C | 54014 | 2009-09-04 at 14:42 | 63285 | 2009-09-04 at 14:42 |
| Total Cyanide | SM 4500-CN C,E | 53696 | 2009-08-26 at 09:10 | 62909 | 2009-08-26 at 11:30 |

| Test | Method | Prep Batch | Prep Date | QC Batch | Analysis Date |
|---|---|---|---|---|---|
| TPH DRO | Mod. 8015B | 53675 | 2009-08-25 at 15:00 | 62885 | 2009-08-25 at 18:00 |
| TPH GRO | S 8015B | 53669 | 2009-08-25 at 13:43 | 62877 | 2009-08-25 at 13:43 |
| V, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |
| Zn, Total | S 6010B | 53681 | 2009-08-26 at 10:05 | 62912 | 2009-08-26 at 16:01 |

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 9082429 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

# Analytical Report

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Lubbock | | | | |
| Analysis: | Ag, Total | Analytical Method: | S 6010B | Prep Method: | S 3010A |
| QC Batch: | 62912 | Date Analyzed: | 2009-08-26 | Analyzed By: | RR |
| Prep Batch: | 53681 | Sample Preparation: | 2009-08-26 | Prepared By: | KV |

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Silver | U | <0.00111 | <0.00500 | <0.00111 | mg/L | 1 | 0.00111 | 0.005 | 0.00111 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Lubbock | | | | |
| Analysis: | Al, Total | Analytical Method: | S 6010B | Prep Method: | S 3010A |
| QC Batch: | 62912 | Date Analyzed: | 2009-08-26 | Analyzed By: | RR |
| Prep Batch: | 53681 | Sample Preparation: | 2009-08-26 | Prepared By: | KV |

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Aluminum | | **0.148** | **0.148** | <0.00301 | mg/L | 1 | 0.00301 | 0.05 | 0.00301 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | El Paso | | | | |
| Analysis: | Alkalinity | Analytical Method: | SM 2320B | Prep Method: | N/A |
| QC Batch: | 63228 | Date Analyzed: | 2009-09-01 | Analyzed By: | JG |
| Prep Batch: | 53964 | Sample Preparation: | | Prepared By: | JG |

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Hydroxide Alkalinity | U | <1.00 | <1.00 | <1.00 | mg/L as CaCo3 | 1 | 1.00 | 1 | 1 |
| Carbonate Alkalinity | U | <1.00 | <1.00 | <1.00 | mg/L as CaCo3 | 1 | 1.00 | 1 | 1 |
| Bicarbonate Alkalinity | | **220** | **220** | <4.00 | mg/L as CaCo3 | 1 | 4.00 | 4 | 4 |
| Total Alkalinity | | **220** | **220** | <4.00 | mg/L as CaCo3 | 1 | 4.00 | 4 | 4 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Lubbock | | | | |
| Analysis: | Ammonia | Analytical Method: | SM 4500-NH3 B,C | Prep Method: | N/A |
| QC Batch: | 62985 | Date Analyzed: | 2009-08-26 | Analyzed By: | AH |
| Prep Batch: | 53749 | Sample Preparation: | 2009-08-26 | Prepared By: | AH |

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia-N | J | **0.784** | <1.00 | <0.353 | mg/L | 1 | 0.353 | 1 | 0.353 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: As, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 Sample Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Arsenic | U | <0.00448 | <0.0100 | <0.00448 | mg/L | 1 | 0.00448 | 0.01 | 0.00448 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: Ba, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 Sample Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Barium | | **0.0150** | **0.0150** | <0.00105 | mg/L | 1 | 0.00105 | 0.005 | 0.00105 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: Be, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 Sample Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Beryllium | U | <0.000450 | <0.00200 | <0.000450 | mg/L | 1 | 0.000450 | 0.002 | 0.00045 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: Bromide (IC) Analytical Method: E 300.0 Prep Method: N/A

QC Batch: 62908 Date Analyzed: 2009-08-26 Analyzed By: SS
Prep Batch: 53693 Sample Preparation: 2009-08-25 Prepared By: SS

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Bromide | U | <0.960 | <2.50 | <0.960 | mg/L | 5 | 0.960 | 0.5 | 0.192 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: Ca, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR
Prep Batch: 53681 Sample Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Calcium | | **454** | **454** | <1.17 | mg/L | 10 | 1.17 | 1 | 0.117 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: Cd, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 Sample Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Cadmium | U | <0.000303 | <0.00200 | <0.000303 | mg/L | 1 | 0.000303 | 0.002 | 0.000303 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 62950 Date Analyzed: 2009-08-26 Analyzed By: SS
Prep Batch: 53722 Sample Preparation: 2009-08-26 Prepared By: SS

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | | **1140** | **1140** | <7.85 | mg/L | 50 | 7.85 | 2.5 | 0.157 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: El Paso
Analysis: Chromium, Hexavalent Analytical Method: SM 3500-Cr B Prep Method: N/A
QC Batch: 63011 Date Analyzed: 2009-08-21 Analyzed By: MD
Prep Batch: 53772 Sample Preparation: 2009-08-21 Prepared By: MD

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | U | <0.00594 | <0.0100 | <0.00594 | mg/L | 1 | 0.00594 | 0.01 | 0.00594 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: Co, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 Sample Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Cobalt | U | <0.000822 | <0.00200 | <0.000822 | mg/L | 1 | 0.000822 | 0.002 | 0.000822 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: Cr, Dissolved Analytical Method: S 6010B Prep Method: S 3005A
QC Batch: 63220 Date Analyzed: 2009-09-03 Analyzed By: RR
Prep Batch: 53950 Sample Preparation: 2009-09-03 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Dissolved Chromium | | **0.00300** | **0.00300** | <0.000583 | mg/L | 1 | 0.000583 | 0.001 | 0.000583 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: Cr, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 Sample Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Chromium | J | **0.00400** | <0.00500 | <0.000583 | mg/L | 1 | 0.000583 | 0.005 | 0.000583 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Lubbock | | | | |
| Analysis: | Cu, Total | Analytical Method: | S 6010B | Prep Method: | S 3010A |
| QC Batch: | 62912 | Date Analyzed: | 2009-08-26 | Analyzed By: | RR |
| Prep Batch: | 53681 | Sample Preparation: | 2009-08-26 | Prepared By: | KV |

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Copper | J | **0.00300** | <0.00500 | <0.000843 | mg/L | 1 | 0.000843 | 0.005 | 0.000843 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Lubbock | | | | |
| Analysis: | Explosives (8330) | Analytical Method: | S 8330-C18 | Prep Method: | S 3535A |
| QC Batch: | 62929 | Date Analyzed: | 2009-08-26 | Analyzed By: | DS |
| Prep Batch: | 53708 | Sample Preparation: | 2009-08-26 | Prepared By: | DS |

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| HMX | U | <0.123 | <0.500 | <0.123 | μg/L | 1 | 0.123 | 0.5 | 0.123 |
| RDX | U | <0.298 | <0.500 | <0.298 | μg/L | 1 | 0.298 | 0.5 | 0.298 |
| 1,3,5-Trinitrobenzene | U | <0.339 | <0.500 | <0.339 | μg/L | 1 | 0.339 | 0.5 | 0.339 |
| 1,3-Dinitrobenzene | U | <0.389 | <0.500 | <0.389 | μg/L | 1 | 0.389 | 0.5 | 0.389 |
| Nitrobenzene | U | <0.379 | <0.500 | <0.379 | μg/L | 1 | 0.379 | 0.5 | 0.379 |
| Tetryl | U | <0.413 | <0.500 | <0.413 | μg/L | 1 | 0.413 | 0.5 | 0.413 |
| TNT | U | <0.464 | <0.500 | <0.464 | μg/L | 1 | 0.464 | 0.5 | 0.464 |
| 4-Amino-DNT | U | <0.319 | <0.500 | <0.319 | μg/L | 1 | 0.319 | 0.5 | 0.319 |
| 2-Amino-DNT | U | <0.391 | <0.500 | <0.391 | μg/L | 1 | 0.391 | 0.5 | 0.391 |
| 2,6-DNT | U | <0.323 | <0.500 | <0.323 | μg/L | 1 | 0.323 | 0.5 | 0.323 |
| 2,4-DNT | U | <0.366 | <0.500 | <0.366 | μg/L | 1 | 0.366 | 0.5 | 0.366 |
| 2-NT | U | <0.379 | <0.500 | <0.379 | μg/L | 1 | 0.379 | 0.5 | 0.379 |
| 4-NT | U | <0.398 | <0.500 | <0.398 | μg/L | 1 | 0.398 | 0.5 | 0.398 |
| 3-NT | U | <0.346 | <0.500 | <0.346 | μg/L | 1 | 0.346 | 0.5 | 0.346 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | | 1.96 | μg/L | 1 | 2.50 | 78 | 19.8 - 160 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Lubbock | | | | |
| Analysis: | Fe, Total | Analytical Method: | S 6010B | Prep Method: | S 3010A |
| QC Batch: | 62912 | Date Analyzed: | 2009-08-26 | Analyzed By: | RR |
| Prep Batch: | 53681 | Sample Preparation: | 2009-08-26 | Prepared By: | KV |

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Iron | | **0.0980** | **0.0980** | <0.000872 | mg/L | 1 | 0.000872 | 0.01 | 0.000872 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Lubbock | | | | |
| Analysis: | Fluoride (IC) | Analytical Method: | E 300.0 | Prep Method: | N/A |
| QC Batch: | 62908 | Date Analyzed: | 2009-08-26 | Analyzed By: | SS |
| Prep Batch: | 53693 | Sample Preparation: | 2009-08-25 | Prepared By: | SS |

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Fluoride | U | <1.02 | <2.50 | <1.02 | mg/L | 5 | 1.02 | 0.5 | 0.204 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Lubbock | | | | |
| Analysis: | Hg, Total | Analytical Method: | S 7470A | Prep Method: | N/A |
| QC Batch: | 62974 | Date Analyzed: | 2009-08-27 | Analyzed By: | TP |
| Prep Batch: | 53720 | Sample Preparation: | 2009-08-27 | Prepared By: | TP |

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Mercury | U | <0.0000329 | <0.000200 | <0.0000329 | mg/L | 1 | 0.0000329 | 0.0002 | 3.29e-05 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Lubbock | | | | |
| Analysis: | K, Total | Analytical Method: | S 6010B | Prep Method: | S 3010A |
| QC Batch: | 62934 | Date Analyzed: | 2009-08-27 | Analyzed By: | RR |
| Prep Batch: | 53681 | Sample Preparation: | 2009-08-26 | Prepared By: | KV |

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Potassium | | **56.8** | **56.8** | <0.172 | mg/L | 1 | 0.172 | 1 | 0.172 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Lubbock | | | | |
| Analysis: | Mg, Total | Analytical Method: | S 6010B | Prep Method: | S 3010A |

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR
Prep Batch: 53681 Sample Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Magnesium | | **630** | **630** | <1.60 | mg/L | 10 | 1.60 | 1 | 0.16 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: Mn, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 Sample Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Manganese | | **0.00600** | **0.00600** | <0.000305 | mg/L | 1 | 0.000305 | 0.0025 | 0.000305 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: Mo, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 Sample Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Molybdenum | | **0.0520** | **0.0520** | <0.00119 | mg/L | 1 | 0.00119 | 0.01 | 0.00119 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: Na, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR
Prep Batch: 53681 Sample Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Sodium | | **2330** | **2330** | <0.500 | mg/L | 10 | 0.500 | 1 | 0.05 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: Ni, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 Sample Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Nickel | J | **0.00300** | <0.00500 | <0.00121 | mg/L | 1 | 0.00121 | 0.005 | 0.00121 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: Nitrate and Nitrite as N Analytical Method: SM 4500-NO3 E Prep Method: N/A
QC Batch: 63168 Date Analyzed: 2009-08-28 Analyzed By: KV
Prep Batch: 53917 Sample Preparation: 2009-08-28 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate and Nitrite as N | | **82.5** | **82.5** | <0.00 | mg/L | 0 | 0.00 | 0.1 | 0.035 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: El Paso
Analysis: O/G Analytical Method: E 1664 Prep Method: N/A
QC Batch: 63270 Date Analyzed: 2009-09-02 Analyzed By: MD
Prep Batch: 54005 Sample Preparation: 2009-09-01 Prepared By: MD

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Oil and Grease | U | <3.60 | <5.00 | <3.60 | mg/L | 1 | 3.60 | 5 | 3.6 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: P, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 Sample Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Phosphorous | | **0.0280** | **0.0280** | <0.00289 | mg/L | 1 | 0.00289 | 0.025 | 0.00289 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Lubbock | | | | |
| Analysis: | Pb, Total | Analytical Method: | S 6010B | Prep Method: | S 3010A |
| QC Batch: | 62912 | Date Analyzed: | 2009-08-26 | Analyzed By: | RR |
| Prep Batch: | 53681 | Sample Preparation: | 2009-08-26 | Prepared By: | KV |

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Lead | U | <0.00326 | <0.00500 | <0.00326 | mg/L | 1 | 0.00326 | 0.005 | 0.00326 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Lubbock | | | | |
| Analysis: | Pesticides | Analytical Method: | S 8081A | Prep Method: | S 3510C |
| QC Batch: | 62924 | Date Analyzed: | 2009-08-26 | Analyzed By: | DS |
| Prep Batch: | 53706 | Sample Preparation: | 2009-08-26 | Prepared By: | DS |

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | U | <0.0000255 | <0.000500 | <0.0000255 | mg/L | 1 | 0.0000255 | 0.0005 | 2.55e-05 |
| gamma-BHC (Lindane) | U | <0.0000338 | <0.000500 | <0.0000338 | mg/L | 1 | 0.0000338 | 0.0005 | 3.38e-05 |
| beta-BHC | U | <0.0000309 | <0.000500 | <0.0000309 | mg/L | 1 | 0.0000309 | 0.0005 | 3.09e-05 |
| delta-BHC | U | <0.0000858 | <0.000500 | <0.0000858 | mg/L | 1 | 0.0000858 | 0.0005 | 8.58e-05 |
| Heptachlor | U | <0.0000372 | <0.000500 | <0.0000372 | mg/L | 1 | 0.0000372 | 0.0005 | 3.72e-05 |
| Aldrin | U | <0.00000971 | <0.000500 | <0.00000971 | mg/L | 1 | 0.00000971 | 0.0005 | 9.71e-06 |
| Heptachlor Epoxide | U | <0.0000215 | <0.000500 | <0.0000215 | mg/L | 1 | 0.0000215 | 0.0005 | 2.15e-05 |
| gamma-Chlordane | U | <0.0000305 | <0.000500 | <0.0000305 | mg/L | 1 | 0.0000305 | 0.0005 | 3.05e-05 |
| alpha-Chlordane | U | <0.0000501 | <0.000500 | <0.0000501 | mg/L | 1 | 0.0000501 | 0.0005 | 5.01e-05 |
| Endosulfan I | U | <0.0000186 | <0.000500 | <0.0000186 | mg/L | 1 | 0.0000186 | 0.0005 | 1.86e-05 |
| p,p-DDE | U | <0.0000387 | <0.000500 | <0.0000387 | mg/L | 1 | 0.0000387 | 0.0005 | 3.87e-05 |
| Dieldrin | U | <0.0000185 | <0.000500 | <0.0000185 | mg/L | 1 | 0.0000185 | 0.0005 | 1.85e-05 |
| Endrin | U | <0.0000745 | <0.000500 | <0.0000745 | mg/L | 1 | 0.0000745 | 0.0005 | 7.45e-05 |
| Endosulfan II | U | <0.00000955 | <0.000500 | <0.00000955 | mg/L | 1 | 0.00000955 | 0.0005 | 9.55e-06 |
| p,p-DDD | U | <0.0000182 | <0.000500 | <0.0000182 | mg/L | 1 | 0.0000182 | 0.0005 | 1.82e-05 |
| Endrin aldehyde | U | <0.000146 | <0.000500 | <0.000146 | mg/L | 1 | 0.000146 | 0.0005 | 0.000146 |
| p,p-DDT | U | <0.0000222 | <0.000500 | <0.0000222 | mg/L | 1 | 0.0000222 | 0.0005 | 2.22e-05 |
| Endosulfan sulfate | U | <0.0000183 | <0.000500 | <0.0000183 | mg/L | 1 | 0.0000183 | 0.0005 | 1.83e-05 |
| Methoxychlor | U | <0.00000734 | <0.000500 | <0.00000734 | mg/L | 1 | 0.00000734 | 0.0005 | 7.34e-06 |
| Endrin Ketone | U | <0.00000806 | <0.000500 | 0.0000873 | mg/L | 1 | 0.00000806 | 0.0005 | 8.06e-06 |
| Toxaphene | U | <0.00102 | <0.00500 | <0.00102 | mg/L | 1 | 0.00102 | 0.005 | 0.00102 |
| Technical Chlordane | U | <0.000277 | <0.00500 | <0.000277 | mg/L | 1 | 0.000277 | 0.005 | 0.000277 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | | 0.000677 | mg/L | 1 | 0.00100 | 68 | 16 - 138 |
| Deca chlorobiphenyl | | 0.00101 | mg/L | 1 | 0.00100 | 101 | 29.3 - 129 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | El Paso | | | | |
| Analysis: | pH | Analytical Method: | SM 4500-H+ | Prep Method: | N/A |
| QC Batch: | 63078 | Date Analyzed: | 2009-08-21 | Analyzed By: | JG |
| Prep Batch: | 53837 | Sample Preparation: | 2009-08-21 | Prepared By: | JR |

| Parameter | Flag | RL Result | Units | Dilution | RL |
|---|---|---|---|---|---|
| pH | | 7.31 | s.u. | 1 | |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Lubbock | | | | |
| Analysis: | Sb, Total | Analytical Method: | S 6010B | Prep Method: | S 3010A |
| QC Batch: | 62912 | Date Analyzed: | 2009-08-26 | Analyzed By: | RR |
| Prep Batch: | 53681 | Sample Preparation: | 2009-08-26 | Prepared By: | KV |

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Antimony | U | <0.00440 | <0.0200 | <0.00440 | mg/L | 1 | 0.00440 | 0.02 | 0.0044 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Lubbock | | | | |
| Analysis: | Se, Total | Analytical Method: | S 6010B | Prep Method: | S 3010A |
| QC Batch: | 62912 | Date Analyzed: | 2009-08-26 | Analyzed By: | RR |
| Prep Batch: | 53681 | Sample Preparation: | 2009-08-26 | Prepared By: | KV |

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Selenium | | **0.0520** | **0.0520** | <0.00508 | mg/L | 1 | 0.00508 | 0.02 | 0.00508 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Lubbock | | | | |
| Analysis: | Semivolatiles | Analytical Method: | S 8270C | Prep Method: | S 3510C |
| QC Batch: | 63035 | Date Analyzed: | 2009-08-28 | Analyzed By: | MN |
| Prep Batch: | 53805 | Sample Preparation: | 2009-08-28 | Prepared By: | MN |

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Pyridine | U | <0.000675 | <0.00556 | <0.000675 | mg/L | 1.111 | 0.000675 | 0.005 | 0.000608 |

*continued . . .*

*sample 207473 continued ...*

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| N-Nitrosodimethylamine | U | <0.000613 | <0.00556 | <0.000613 | mg/L | 1.111 | 0.000613 | 0.005 | 0.000552 |
| 2-Picoline | U | <0.000453 | <0.00556 | <0.000453 | mg/L | 1.111 | 0.000453 | 0.005 | 0.000408 |
| Methyl methanesulfonate | U | <0.000389 | <0.00556 | <0.000389 | mg/L | 1.111 | 0.000389 | 0.005 | 0.00035 |
| Ethyl methanesulfonate | U | <0.000498 | <0.00556 | <0.000498 | mg/L | 1.111 | 0.000498 | 0.005 | 0.000448 |
| Phenol | U | <0.000565 | <0.00556 | <0.000565 | mg/L | 1.111 | 0.000565 | 0.005 | 0.000509 |
| Aniline | U | <0.000768 | <0.00556 | <0.000768 | mg/L | 1.111 | 0.000768 | 0.005 | 0.000691 |
| bis(2-chloroethyl)ether | U | <0.000489 | <0.00556 | <0.000489 | mg/L | 1.111 | 0.000489 | 0.005 | 0.00044 |
| 2-Chlorophenol | U | <0.000597 | <0.00556 | <0.000597 | mg/L | 1.111 | 0.000597 | 0.005 | 0.000537 |
| 1,3-Dichlorobenzene (meta) | U | <0.000490 | <0.00556 | <0.000490 | mg/L | 1.111 | 0.000490 | 0.005 | 0.000441 |
| 1,4-Dichlorobenzene (para) | U | <0.000489 | <0.00556 | <0.000489 | mg/L | 1.111 | 0.000489 | 0.005 | 0.00044 |
| Benzyl alcohol | U | <0.000598 | <0.00556 | <0.000598 | mg/L | 1.111 | 0.000598 | 0.005 | 0.000538 |
| 1,2-Dichlorobenzene (ortho) | U | <0.000492 | <0.00556 | <0.000492 | mg/L | 1.111 | 0.000492 | 0.005 | 0.000443 |
| 2-Methylphenol | U | <0.000806 | <0.00556 | <0.000806 | mg/L | 1.111 | 0.000806 | 0.005 | 0.000726 |
| bis(2-chloroisopropyl)ether | U | <0.000559 | <0.00556 | <0.000559 | mg/L | 1.111 | 0.000559 | 0.005 | 0.000503 |
| 4-Methylphenol / 3-Methylphenol | U | <0.000569 | <0.00556 | <0.000569 | mg/L | 1.111 | 0.000569 | 0.005 | 0.000512 |
| N-Nitrosodi-n-propylamine | U | <0.000813 | <0.00556 | <0.000813 | mg/L | 1.111 | 0.000813 | 0.005 | 0.000732 |
| Hexachloroethane | U | <0.000563 | <0.00556 | <0.000563 | mg/L | 1.111 | 0.000563 | 0.005 | 0.000507 |
| Acetophenone | U | <0.000471 | <0.00556 | <0.000471 | mg/L | 1.111 | 0.000471 | 0.005 | 0.000424 |
| Nitrobenzene | U | <0.000517 | <0.00556 | <0.000517 | mg/L | 1.111 | 0.000517 | 0.005 | 0.000465 |
| N-Nitrosopiperidine | U | <0.000492 | <0.00556 | <0.000492 | mg/L | 1.111 | 0.000492 | 0.005 | 0.000443 |
| Isophorone | U | <0.000688 | <0.00556 | <0.000688 | mg/L | 1.111 | 0.000688 | 0.005 | 0.000619 |
| 2-Nitrophenol | U | <0.000451 | <0.00556 | <0.000451 | mg/L | 1.111 | 0.000451 | 0.005 | 0.000406 |
| 2,4-Dimethylphenol | U | <0.000530 | <0.00556 | <0.000530 | mg/L | 1.111 | 0.000530 | 0.005 | 0.000477 |
| bis(2-chloroethoxy)methane | U | <0.000480 | <0.00556 | <0.000480 | mg/L | 1.111 | 0.000480 | 0.005 | 0.000432 |
| 2,4-Dichlorophenol | U | <0.000444 | <0.00556 | <0.000444 | mg/L | 1.111 | 0.000444 | 0.005 | 0.0004 |
| 1,2,4-Trichlorobenzene | U | <0.000449 | <0.00556 | <0.000449 | mg/L | 1.111 | 0.000449 | 0.005 | 0.000404 |
| Benzoic acid | U | <0.00181 | <0.00556 | <0.00181 | mg/L | 1.111 | 0.00181 | 0.005 | 0.00163 |
| Naphthalene | U | <0.000543 | <0.00556 | <0.000543 | mg/L | 1.111 | 0.000543 | 0.005 | 0.000489 |
| a,a-Dimethylphenethylamine | U | <0.00143 | <0.00556 | <0.00143 | mg/L | 1.111 | 0.00143 | 0.005 | 0.00129 |
| 4-Chloroaniline | U | <0.000420 | <0.00556 | <0.000420 | mg/L | 1.111 | 0.000420 | 0.005 | 0.000378 |
| 2,6-Dichlorophenol | U | <0.000538 | <0.0111 | <0.000538 | mg/L | 1.111 | 0.000538 | 0.01 | 0.000484 |
| Hexachlorobutadiene | U | <0.000574 | <0.00556 | <0.000574 | mg/L | 1.111 | 0.000574 | 0.005 | 0.000517 |
| N-Nitroso-di-n-butylamine | U | <0.000729 | <0.00556 | <0.000729 | mg/L | 1.111 | 0.000729 | 0.005 | 0.000656 |
| 4-Chloro-3-methylphenol | U | <0.000580 | <0.00556 | <0.000580 | mg/L | 1.111 | 0.000580 | 0.005 | 0.000522 |
| 2-Methylnaphthalene | U | <0.000470 | <0.00556 | <0.000470 | mg/L | 1.111 | 0.000470 | 0.005 | 0.000423 |
| 1-Methylnaphthalene | U | <0.000550 | <0.00556 | <0.000550 | mg/L | 1.111 | 0.000550 | 0.005 | 0.000495 |
| 1,2,4,5-Tetrachlorobenzene | U | <0.000680 | <0.00556 | <0.000680 | mg/L | 1.111 | 0.000680 | 0.005 | 0.000612 |
| Hexachlorocyclopentadiene | U | <0.000620 | <0.00556 | <0.000620 | mg/L | 1.111 | 0.000620 | 0.005 | 0.000558 |
| 2,4,6-Trichlorophenol | U | <0.000882 | <0.0111 | <0.000882 | mg/L | 1.111 | 0.000882 | 0.01 | 0.000794 |
| 2,4,5-Trichlorophenol | U | <0.000926 | <0.00556 | <0.000926 | mg/L | 1.111 | 0.000926 | 0.005 | 0.000834 |
| 2-Chloronaphthalene | U | <0.000462 | <0.00556 | <0.000462 | mg/L | 1.111 | 0.000462 | 0.005 | 0.000416 |
| 1-Chloronaphthalene | U | <0.000529 | <0.00556 | <0.000529 | mg/L | 1.111 | 0.000529 | 0.005 | 0.000476 |
| 2-Nitroaniline | U | <0.000844 | <0.00556 | <0.000844 | mg/L | 1.111 | 0.000844 | 0.005 | 0.00076 |
| Dimethylphthalate | U | <0.000714 | <0.00556 | <0.000714 | mg/L | 1.111 | 0.000714 | 0.005 | 0.000643 |
| Acenaphthylene | U | <0.000651 | <0.00556 | <0.000651 | mg/L | 1.111 | 0.000651 | 0.005 | 0.000586 |

*continued ...*

*sample 207473 continued ...*

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| 2,6-Dinitrotoluene | U | <0.000711 | <0.00556 | <0.000711 | mg/L | 1.111 | 0.000711 | 0.005 | 0.00064 |
| 3-Nitroaniline | U | <0.000801 | <0.00556 | <0.000801 | mg/L | 1.111 | 0.000801 | 0.005 | 0.000721 |
| Acenaphthene | U | <0.000470 | <0.00556 | <0.000470 | mg/L | 1.111 | 0.000470 | 0.005 | 0.000423 |
| 2,4-Dinitrophenol | U | <0.000244 | <0.00556 | <0.000244 | mg/L | 1.111 | 0.000244 | 0.005 | 0.00022 |
| Dibenzofuran | U | <0.000453 | <0.00556 | <0.000453 | mg/L | 1.111 | 0.000453 | 0.005 | 0.000408 |
| Pentachlorobenzene | U | <0.000634 | <0.00556 | <0.000634 | mg/L | 1.111 | 0.000634 | 0.005 | 0.000571 |
| 4-Nitrophenol | U | <0.00206 | <0.0278 | <0.00206 | mg/L | 1.111 | 0.00206 | 0.025 | 0.00185 |
| 2,4-Dinitrotoluene | U | <0.00101 | <0.00556 | <0.00101 | mg/L | 1.111 | 0.00101 | 0.005 | 0.000911 |
| 1-Naphthylamine | U | <0.000764 | <0.00556 | <0.000764 | mg/L | 1.111 | 0.000764 | 0.005 | 0.000688 |
| 2,3,4,6-Tetrachlorophenol | U | <0.000628 | <0.0111 | <0.000628 | mg/L | 1.111 | 0.000628 | 0.01 | 0.000565 |
| 2-Naphthylamine | U | <0.000776 | <0.00556 | <0.000776 | mg/L | 1.111 | 0.000776 | 0.005 | 0.000699 |
| Fluorene | U | <0.000720 | <0.00556 | <0.000720 | mg/L | 1.111 | 0.000720 | 0.005 | 0.000648 |
| 4-Chlorophenyl-phenylether | U | <0.000688 | <0.00556 | <0.000688 | mg/L | 1.111 | 0.000688 | 0.005 | 0.000619 |
| Diethylphthalate | U | <0.000920 | <0.00556 | <0.000920 | mg/L | 1.111 | 0.000920 | 0.005 | 0.000828 |
| 4-Nitroaniline | U | <0.000780 | <0.00556 | <0.000780 | mg/L | 1.111 | 0.000780 | 0.005 | 0.000702 |
| Diphenylhydrazine | U | <0.000730 | <0.00556 | <0.000730 | mg/L | 1.111 | 0.000730 | 0.005 | 0.000657 |
| 4,6-Dinitro-2-methylphenol | U | <0.00220 | <0.00556 | <0.00220 | mg/L | 1.111 | 0.00220 | 0.005 | 0.00198 |
| Diphenylamine | U | <0.000489 | <0.00556 | <0.000489 | mg/L | 1.111 | 0.000489 | 0.005 | 0.00044 |
| 4-Bromophenyl-phenylether | U | <0.000611 | <0.00556 | <0.000611 | mg/L | 1.111 | 0.000611 | 0.005 | 0.00055 |
| Phenacetin | U | <0.000672 | <0.00556 | <0.000672 | mg/L | 1.111 | 0.000672 | 0.005 | 0.000605 |
| Hexachlorobenzene | U | <0.000562 | <0.00556 | <0.000562 | mg/L | 1.111 | 0.000562 | 0.005 | 0.000506 |
| 4-Aminobiphenyl | U | <0.000585 | <0.00556 | <0.000585 | mg/L | 1.111 | 0.000585 | 0.005 | 0.000527 |
| Pentachlorophenol | U | <0.000483 | <0.0111 | <0.000483 | mg/L | 1.111 | 0.000483 | 0.01 | 0.000435 |
| Anthracene | U | <0.000476 | <0.00556 | <0.000476 | mg/L | 1.111 | 0.000476 | 0.005 | 0.000428 |
| Pentachloronitrobenzene | U | <0.000453 | <0.00556 | <0.000453 | mg/L | 1.111 | 0.000453 | 0.005 | 0.000408 |
| Pronamide | U | <0.000529 | <0.00556 | <0.000529 | mg/L | 1.111 | 0.000529 | 0.005 | 0.000476 |
| Phenanthrene | U | <0.000609 | <0.00556 | <0.000609 | mg/L | 1.111 | 0.000609 | 0.005 | 0.000548 |
| Di-n-butylphthalate | U | <0.000537 | <0.00556 | <0.000537 | mg/L | 1.111 | 0.000537 | 0.005 | 0.000483 |
| Fluoranthene | U | <0.000702 | <0.00556 | <0.000702 | mg/L | 1.111 | 0.000702 | 0.005 | 0.000632 |
| Benzidine | U | <0.00264 | <0.0278 | <0.00264 | mg/L | 1.111 | 0.00264 | 0.025 | 0.00238 |
| Pyrene | U | <0.000803 | <0.00556 | <0.000803 | mg/L | 1.111 | 0.000803 | 0.005 | 0.000723 |
| p-Dimethylaminoazobenzene | U | <0.00100 | <0.00556 | <0.00100 | mg/L | 1.111 | 0.00100 | 0.005 | 0.000902 |
| Butylbenzylphthalate | U | <0.000494 | <0.00556 | <0.000494 | mg/L | 1.111 | 0.000494 | 0.005 | 0.000445 |
| Benzo(a)anthracene | U | <0.000585 | <0.00556 | <0.000585 | mg/L | 1.111 | 0.000585 | 0.005 | 0.000527 |
| 3,3-Dichlorobenzidine | U | <0.00131 | <0.00556 | <0.00131 | mg/L | 1.111 | 0.00131 | 0.005 | 0.00118 |
| Chrysene | U | <0.000709 | <0.00556 | <0.000709 | mg/L | 1.111 | 0.000709 | 0.005 | 0.000638 |
| bis(2-ethylhexyl)phthalate | U | <0.000623 | <0.00556 | <0.000623 | mg/L | 1.111 | 0.000623 | 0.005 | 0.000561 |
| Di-n-octylphthalate | U | <0.00129 | <0.00556 | <0.00129 | mg/L | 1.111 | 0.00129 | 0.005 | 0.00116 |
| Benzo(b)fluoranthene | U | <0.000976 | <0.00556 | <0.000976 | mg/L | 1.111 | 0.000976 | 0.005 | 0.000879 |
| Benzo(k)fluoranthene | U | <0.000939 | <0.00556 | <0.000939 | mg/L | 1.111 | 0.000939 | 0.005 | 0.000845 |
| 7,12-Dimethylbenz(a)anthracene | U | <0.00113 | <0.00556 | <0.00113 | mg/L | 1.111 | 0.00113 | 0.005 | 0.00102 |
| Benzo(a)pyrene | U | <0.00186 | <0.00556 | <0.00186 | mg/L | 1.111 | 0.00186 | 0.005 | 0.00167 |
| 3-Methylcholanthrene | U | <0.00101 | <0.00556 | <0.00101 | mg/L | 1.111 | 0.00101 | 0.005 | 0.000908 |
| Dibenzo(a,j)acridine | U | <0.00143 | <0.00556 | <0.00143 | mg/L | 1.111 | 0.00143 | 0.005 | 0.00129 |
| Indeno(1,2,3-cd)pyrene | U | <0.000958 | <0.00556 | <0.000958 | mg/L | 1.111 | 0.000958 | 0.005 | 0.000862 |

*continued ...*

*sample 207473 continued ...*

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Dibenzo(a,h)anthracene | U | <0.000899 | <0.00556 | <0.000899 | mg/L | 1.111 | 0.000899 | 0.005 | 0.000809 |
| Benzo(g,h,i)perylene | U | <0.00105 | <0.00556 | <0.00105 | mg/L | 1.111 | 0.00105 | 0.005 | 0.000949 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | | 0.0239 | mg/L | 1.111 | 0.0800 | 30 | 10 - 53.1 |
| Phenol-d5 | | 0.0153 | mg/L | 1.111 | 0.0800 | 19 | 10 - 36.9 |
| Nitrobenzene-d5 | | 0.0431 | mg/L | 1.111 | 0.0800 | 54 | 23.8 - 108 |
| 2-Fluorobiphenyl | | 0.0400 | mg/L | 1.111 | 0.0800 | 50 | 15.9 - 127 |
| 2,4,6-Tribromophenol | | 0.0522 | mg/L | 1.111 | 0.0800 | 65 | 10 - 123 |
| Terphenyl-d14 | | 0.0494 | mg/L | 1.111 | 0.0800 | 62 | 17.2 - 160 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Lubbock | | | | |
| Analysis: | SO4 (IC) | Analytical Method: | E 300.0 | Prep Method: | N/A |
| QC Batch: | 62908 | Date Analyzed: | 2009-08-26 | Analyzed By: | SS |
| Prep Batch: | 53693 | Sample Preparation: | 2009-08-25 | Prepared By: | SS |

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | | **6420** | **6420** | <76.5 | mg/L | 500 | 76.5 | 2.5 | 0.153 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | El Paso | | | | |
| Analysis: | TDS | Analytical Method: | SM 2540C | Prep Method: | N/A |
| QC Batch: | 63016 | Date Analyzed: | 2009-08-21 | Analyzed By: | MD |
| Prep Batch: | 53777 | Sample Preparation: | 2009-08-21 | Prepared By: | MD |

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | **12000** | **12000** | <5.00 | mg/L | 1 | 5.00 | | 5 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

| | | | | | |
|---|---|---|---|---|---|
| Laboratory: | Lubbock | | | | |
| Analysis: | TKN | Analytical Method: | E 351.3 | Prep Method: | N/A |
| QC Batch: | 63112 | Date Analyzed: | 2009-08-31 | Analyzed By: | AH |

Prep Batch: 53865 Sample Preparation: 2009-08-31 Prepared By: AH

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Kjeldahl Nitrogen - N | J | **2.80** | <10.0 | <2.45 | mg/L | 1 | 2.45 | 10 | 2.45 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: Tl, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 Sample Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Thallium | U | <0.00488 | <0.0500 | <0.00488 | mg/L | 1 | 0.00488 | 0.05 | 0.00488 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: TOC Analytical Method: SM 5310C Prep Method: N/A
QC Batch: 63285 Date Analyzed: 2009-09-04 Analyzed By: KV
Prep Batch: 54014 Sample Preparation: 2009-09-04 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | J | **0.969** | <1.00 | <0.401 | mg/L | 1 | 0.401 | 1 | 0.401 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: Total Cyanide Analytical Method: SM 4500-CN C,E Prep Method: N/A
QC Batch: 62909 Date Analyzed: 2009-08-26 Analyzed By: AH
Prep Batch: 53696 Sample Preparation: Prepared By: AH

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Cyanide | U | <0.0110 | <0.0150 | <0.0110 | mg/L | 1 | 0.0110 | 0.015 | 0.011 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: TPH DRO Analytical Method: Mod. 8015B Prep Method: N/A
QC Batch: 62885 Date Analyzed: 2009-08-25 Analyzed By:
Prep Batch: 53675 Sample Preparation: 2009-08-25 Prepared By:

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| DRO | U | <0.876 | <5.00 | <0.876 | mg/L | 1 | 0.876 | 5 | 0.876 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| n-Triacontane | | 9.09 | mg/L | 1 | 10.0 | 91 | 34.4 - 185 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: TPH GRO Analytical Method: S 8015B Prep Method: S 5030B
QC Batch: 62877 Date Analyzed: 2009-08-25 Analyzed By: ER
Prep Batch: 53669 Sample Preparation: 2009-08-25 Prepared By: ER

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| GRO | U | <0.152 | <0.200 | <0.152 | mg/L | 1 | 0.152 | 0.2 | 0.152 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| Trifluorotoluene (TFT) | | 0.104 | mg/L | 1 | 0.100 | 104 | 70.8 - 112 |
| 4-Bromofluorobenzene (4-BFB) | | 0.103 | mg/L | 1 | 0.100 | 103 | 80 - 109 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: V, Total Analytical Method: S 6010B Prep Method: S 3010A
QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 Sample Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Vanadium | | **0.0200** | **0.0200** | <0.000426 | mg/L | 1 | 0.000426 | 0.005 | 0.000426 |

**Sample: 207473 - HLSF-3839-HMW-029-0809**

Laboratory: Lubbock
Analysis: Zn, Total Analytical Method: S 6010B Prep Method: S 3010A

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 Sample Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | SDL Based Result | MQL Based Result | Method Blank Result | Units | Dilution | SDL | MQL (Unadjusted) | MDL (Unadjusted) |
|---|---|---|---|---|---|---|---|---|---|
| Total Zinc | | **0.0140** | **0.0140** | <0.000465 | mg/L | 1 | 0.000465 | 0.005 | 0.000465 |

**Method Blank (1)**

QC Batch: 62877 Date Analyzed: 2009-08-25 Analyzed By: ER
Prep Batch: 53669 QC Preparation: 2009-08-25 Prepared By: ER

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| GRO | | <0.152 | mg/L | 0.152 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| Trifluorotoluene (TFT) | | 0.0997 | mg/L | 1 | 0.100 | 100 | 70.8 - 112 |
| 4-Bromofluorobenzene (4-BFB) | | 0.0978 | mg/L | 1 | 0.100 | 98 | 80 - 109 |

**Method Blank (1)**

QC Batch: 62885 Date Analyzed: 2009-08-25 Analyzed By:
Prep Batch: 53675 QC Preparation: 2009-08-25 Prepared By:

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| DRO | | <0.876 | mg/L | 0.876 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| n-Triacontane | | 9.01 | mg/L | 1 | 10.0 | 90 | 34.4 - 185 |

**Method Blank (1)**

QC Batch: 62908 Date Analyzed: 2009-08-26 Analyzed By: SS
Prep Batch: 53693 QC Preparation: 2009-08-25 Prepared By: SS

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Bromide | | <0.192 | mg/L | 0.192 |

**Method Blank (1)**

QC Batch: 62908 Date Analyzed: 2009-08-26 Analyzed By: SS
Prep Batch: 53693 QC Preparation: 2009-08-25 Prepared By: SS

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Fluoride | | <0.204 | mg/L | 0.204 |

**Method Blank (1)**

QC Batch: 62908 Date Analyzed: 2009-08-26 Analyzed By: SS
Prep Batch: 53693 QC Preparation: 2009-08-25 Prepared By: SS

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Sulfate | | <0.153 | mg/L | 0.153 |

**Method Blank (1)**

QC Batch: 62909 Date Analyzed: 2009-08-26 Analyzed By: AH
Prep Batch: 53696 QC Preparation: 2009-08-26 Prepared By: AH

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Cyanide | | <0.0110 | mg/L | 0.011 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Silver | | <0.00111 | mg/L | 0.00111 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Aluminum | | <0.00301 | mg/L | 0.00301 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Arsenic | | <0.00448 | mg/L | 0.00448 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Barium | | <0.00105 | mg/L | 0.00105 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Beryllium | | <0.000450 | mg/L | 0.00045 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Cadmium | | <0.000303 | mg/L | 0.000303 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Cobalt | | <0.000822 | mg/L | 0.000822 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Chromium | | <0.000583 | mg/L | 0.000583 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Copper | | <0.000843 | mg/L | 0.000843 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Iron | | <0.000872 | mg/L | 0.000872 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Manganese | | <0.000305 | mg/L | 0.000305 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Molybdenum | | <0.00119 | mg/L | 0.00119 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Nickel | | <0.00121 | mg/L | 0.00121 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Phosphorous | | <0.00289 | mg/L | 0.00289 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Lead | | <0.00326 | mg/L | 0.00326 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Antimony | | <0.00440 | mg/L | 0.0044 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Selenium | | <0.00508 | mg/L | 0.00508 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Thallium | | <0.00488 | mg/L | 0.00488 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Vanadium | | <0.000426 | mg/L | 0.000426 |

**Method Blank (1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Zinc | | <0.000465 | mg/L | 0.000465 |

**Method Blank (1)**

QC Batch: 62924 Date Analyzed: 2009-08-26 Analyzed By: DS
Prep Batch: 53706 QC Preparation: 2009-08-26 Prepared By: DS

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| alpha-BHC | | <0.0000255 | mg/L | 2.55e-05 |
| gamma-BHC (Lindane) | | <0.0000338 | mg/L | 3.38e-05 |
| beta-BHC | | <0.0000309 | mg/L | 3.09e-05 |
| delta-BHC | | <0.0000858 | mg/L | 8.58e-05 |
| Heptachlor | | <0.0000372 | mg/L | 3.72e-05 |
| Aldrin | | <0.00000971 | mg/L | 9.71e-06 |
| Heptachlor Epoxide | | <0.0000215 | mg/L | 2.15e-05 |
| gamma-Chlordane | | <0.0000305 | mg/L | 3.05e-05 |
| alpha-Chlordane | | <0.0000501 | mg/L | 5.01e-05 |
| Endosulfan I | | <0.0000186 | mg/L | 1.86e-05 |
| p,p-DDE | | <0.0000387 | mg/L | 3.87e-05 |
| Dieldrin | | <0.0000185 | mg/L | 1.85e-05 |

*continued ...*

*method blank continued . . .*

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Endrin | | <0.0000745 | mg/L | 7.45e-05 |
| Endosulfan II | | <0.00000955 | mg/L | 9.55e-06 |
| p,p-DDD | | <0.0000182 | mg/L | 1.82e-05 |
| Endrin aldehyde | | <0.000146 | mg/L | 0.000146 |
| p,p-DDT | | <0.0000222 | mg/L | 2.22e-05 |
| Endosulfan sulfate | | <0.0000183 | mg/L | 1.83e-05 |
| Methoxychlor | | <0.00000734 | mg/L | 7.34e-06 |
| Endrin Ketone | | 0.0000873 | mg/L | 8.06e-06 |
| Toxaphene | | <0.00102 | mg/L | 0.00102 |
| Technical Chlordane | | <0.000277 | mg/L | 0.000277 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | | 0.000681 | mg/L | 1 | 0.00100 | 68 | 16 - 138 |
| Deca chlorobiphenyl | | 0.000850 | mg/L | 1 | 0.00100 | 85 | 29.3 - 129 |

**Method Blank (1)**

QC Batch: 62929 Date Analyzed: 2009-08-26 Analyzed By: DS
Prep Batch: 53708 QC Preparation: 2009-08-26 Prepared By: DS

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| HMX | | <0.123 | μg/L | 0.123 |
| RDX | | <0.298 | μg/L | 0.298 |
| 1,3,5-Trinitrobenzene | | <0.339 | μg/L | 0.339 |
| 1,3-Dinitrobenzene | | <0.389 | μg/L | 0.389 |
| Nitrobenzene | | <0.379 | μg/L | 0.379 |
| Tetryl | | <0.413 | μg/L | 0.413 |
| TNT | | <0.464 | μg/L | 0.464 |
| 4-Amino-DNT | | <0.319 | μg/L | 0.319 |
| 2-Amino-DNT | | <0.391 | μg/L | 0.391 |
| 2,6-DNT | | <0.323 | μg/L | 0.323 |
| 2,4-DNT | | <0.366 | μg/L | 0.366 |
| 2-NT | | <0.379 | μg/L | 0.379 |
| 4-NT | | <0.398 | μg/L | 0.398 |
| 3-NT | | <0.346 | μg/L | 0.346 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | | 2.62 | μg/L | 1 | 2.50 | 105 | 19.8 - 160 |

**Method Blank (1)**

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Calcium | | <0.117 | mg/L | 0.117 |

**Method Blank (1)**

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Potassium | | <0.172 | mg/L | 0.172 |

**Method Blank (1)**

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Magnesium | | <0.160 | mg/L | 0.16 |

**Method Blank (1)**

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Sodium | | <0.0500 | mg/L | 0.05 |

**Method Blank (1)**

QC Batch: 62950 Date Analyzed: 2009-08-26 Analyzed By: SS
Prep Batch: 53722 QC Preparation: 2009-08-26 Prepared By: SS

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Chloride | | <0.157 | mg/L | 0.157 |

**Method Blank (1)**

QC Batch: 62974 Date Analyzed: 2009-08-27 Analyzed By: TP
Prep Batch: 53720 QC Preparation: 2009-08-27 Prepared By: TP

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Mercury | | <0.0000329 | mg/L | 3.29e-05 |

**Method Blank (1)**

QC Batch: 62985 Date Analyzed: 2009-08-26 Analyzed By: AH
Prep Batch: 53749 QC Preparation: 2009-08-26 Prepared By: AH

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Ammonia-N | | <0.353 | mg/L | 0.353 |

**Method Blank (1)**

QC Batch: 63011 Date Analyzed: 2009-08-21 Analyzed By: MD
Prep Batch: 53772 QC Preparation: 2009-08-21 Prepared By: MD

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Hexavalent Chromium | | <0.010 | mg/L | 0.00594 |

**Method Blank (1)**

QC Batch: 63016 Date Analyzed: 2009-08-21 Analyzed By: MD
Prep Batch: 53777 QC Preparation: 2009-08-21 Prepared By: MD

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Dissolved Solids | | <1.00 | mg/L | 5 |

**Method Blank (1)**

QC Batch: 63035 Date Analyzed: 2009-08-28 Analyzed By: MN
Prep Batch: 53805 QC Preparation: 2009-08-28 Prepared By: MN

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Pyridine | | <0.000608 | mg/L | 0.000608 |
| N-Nitrosodimethylamine | | <0.000552 | mg/L | 0.000552 |

*continued ...*

*method blank continued . . .*

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| 2-Picoline | | <0.000408 | mg/L | 0.000408 |
| Methyl methanesulfonate | | <0.000350 | mg/L | 0.00035 |
| Ethyl methanesulfonate | | <0.000448 | mg/L | 0.000448 |
| Phenol | | <0.000509 | mg/L | 0.000509 |
| Aniline | | <0.000691 | mg/L | 0.000691 |
| bis(2-chloroethyl)ether | | <0.000440 | mg/L | 0.00044 |
| 2-Chlorophenol | | <0.000537 | mg/L | 0.000537 |
| 1,3-Dichlorobenzene (meta) | | <0.000441 | mg/L | 0.000441 |
| 1,4-Dichlorobenzene (para) | | <0.000440 | mg/L | 0.00044 |
| Benzyl alcohol | | <0.000538 | mg/L | 0.000538 |
| 1,2-Dichlorobenzene (ortho) | | <0.000443 | mg/L | 0.000443 |
| 2-Methylphenol | | <0.000726 | mg/L | 0.000726 |
| bis(2-chloroisopropyl)ether | | <0.000503 | mg/L | 0.000503 |
| 4-Methylphenol / 3-Methylphenol | | <0.000512 | mg/L | 0.000512 |
| N-Nitrosodi-n-propylamine | | <0.000732 | mg/L | 0.000732 |
| Hexachloroethane | | <0.000507 | mg/L | 0.000507 |
| Acetophenone | | <0.000424 | mg/L | 0.000424 |
| Nitrobenzene | | <0.000465 | mg/L | 0.000465 |
| N-Nitrosopiperidine | | <0.000443 | mg/L | 0.000443 |
| Isophorone | | <0.000619 | mg/L | 0.000619 |
| 2-Nitrophenol | | <0.000406 | mg/L | 0.000406 |
| 2,4-Dimethylphenol | | <0.000477 | mg/L | 0.000477 |
| bis(2-chloroethoxy)methane | | <0.000432 | mg/L | 0.000432 |
| 2,4-Dichlorophenol | | <0.000400 | mg/L | 0.0004 |
| 1,2,4-Trichlorobenzene | | <0.000404 | mg/L | 0.000404 |
| Benzoic acid | | <0.00163 | mg/L | 0.00163 |
| Naphthalene | | <0.000489 | mg/L | 0.000489 |
| a,a-Dimethylphenethylamine | | <0.00129 | mg/L | 0.00129 |
| 4-Chloroaniline | | <0.000378 | mg/L | 0.000378 |
| 2,6-Dichlorophenol | | <0.000484 | mg/L | 0.000484 |
| Hexachlorobutadiene | | <0.000517 | mg/L | 0.000517 |
| N-Nitroso-di-n-butylamine | | <0.000656 | mg/L | 0.000656 |
| 4-Chloro-3-methylphenol | | <0.000522 | mg/L | 0.000522 |
| 2-Methylnaphthalene | | <0.000423 | mg/L | 0.000423 |
| 1-Methylnaphthalene | | <0.000495 | mg/L | 0.000495 |
| 1,2,4,5-Tetrachlorobenzene | | <0.000612 | mg/L | 0.000612 |
| Hexachlorocyclopentadiene | | <0.000558 | mg/L | 0.000558 |
| 2,4,6-Trichlorophenol | | <0.000794 | mg/L | 0.000794 |
| 2,4,5-Trichlorophenol | | <0.000834 | mg/L | 0.000834 |
| 2-Chloronaphthalene | | <0.000416 | mg/L | 0.000416 |
| 1-Chloronaphthalene | | <0.000476 | mg/L | 0.000476 |
| 2-Nitroaniline | | <0.000760 | mg/L | 0.00076 |
| Dimethylphthalate | | <0.000643 | mg/L | 0.000643 |
| Acenaphthylene | | <0.000586 | mg/L | 0.000586 |
| 2,6-Dinitrotoluene | | <0.000640 | mg/L | 0.00064 |
| 3-Nitroaniline | | <0.000721 | mg/L | 0.000721 |
| Acenaphthene | | <0.000423 | mg/L | 0.000423 |

*continued . . .*

*method blank continued . . .*

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| 2,4-Dinitrophenol | | <0.000220 | mg/L | 0.00022 |
| Dibenzofuran | | <0.000408 | mg/L | 0.000408 |
| Pentachlorobenzene | | <0.000571 | mg/L | 0.000571 |
| 4-Nitrophenol | | <0.00185 | mg/L | 0.00185 |
| 2,4-Dinitrotoluene | | <0.000911 | mg/L | 0.000911 |
| 1-Naphthylamine | | <0.000688 | mg/L | 0.000688 |
| 2,3,4,6-Tetrachlorophenol | | <0.000565 | mg/L | 0.000565 |
| 2-Naphthylamine | | <0.000699 | mg/L | 0.000699 |
| Fluorene | | <0.000648 | mg/L | 0.000648 |
| 4-Chlorophenyl-phenylether | | <0.000619 | mg/L | 0.000619 |
| Diethylphthalate | | <0.000828 | mg/L | 0.000828 |
| 4-Nitroaniline | | <0.000702 | mg/L | 0.000702 |
| Diphenylhydrazine | | <0.000657 | mg/L | 0.000657 |
| 4,6-Dinitro-2-methylphenol | | <0.00198 | mg/L | 0.00198 |
| Diphenylamine | | <0.000440 | mg/L | 0.00044 |
| 4-Bromophenyl-phenylether | | <0.000550 | mg/L | 0.00055 |
| Phenacetin | | <0.000605 | mg/L | 0.000605 |
| Hexachlorobenzene | | <0.000506 | mg/L | 0.000506 |
| 4-Aminobiphenyl | | <0.000527 | mg/L | 0.000527 |
| Pentachlorophenol | | <0.000435 | mg/L | 0.000435 |
| Anthracene | | <0.000428 | mg/L | 0.000428 |
| Pentachloronitrobenzene | | <0.000408 | mg/L | 0.000408 |
| Pronamide | | <0.000476 | mg/L | 0.000476 |
| Phenanthrene | | <0.000548 | mg/L | 0.000548 |
| Di-n-butylphthalate | | <0.000483 | mg/L | 0.000483 |
| Fluoranthene | | <0.000632 | mg/L | 0.000632 |
| Benzidine | | <0.00238 | mg/L | 0.00238 |
| Pyrene | | <0.000723 | mg/L | 0.000723 |
| p-Dimethylaminoazobenzene | | <0.000902 | mg/L | 0.000902 |
| Butylbenzylphthalate | | 0.000480 | mg/L | 0.000445 |
| Benzo(a)anthracene | | <0.000527 | mg/L | 0.000527 |
| 3,3-Dichlorobenzidine | | <0.00118 | mg/L | 0.00118 |
| Chrysene | | <0.000638 | mg/L | 0.000638 |
| bis(2-ethylhexyl)phthalate | | <0.000561 | mg/L | 0.000561 |
| Di-n-octylphthalate | | <0.00116 | mg/L | 0.00116 |
| Benzo(b)fluoranthene | | <0.000879 | mg/L | 0.000879 |
| Benzo(k)fluoranthene | | <0.000845 | mg/L | 0.000845 |
| 7,12-Dimethylbenz(a)anthracene | | <0.00102 | mg/L | 0.00102 |
| Benzo(a)pyrene | | <0.00167 | mg/L | 0.00167 |
| 3-Methylcholanthrene | | <0.000908 | mg/L | 0.000908 |
| Dibenzo(a,j)acridine | | <0.00129 | mg/L | 0.00129 |
| Indeno(1,2,3-cd)pyrene | | <0.000862 | mg/L | 0.000862 |
| Dibenzo(a,h)anthracene | | <0.000809 | mg/L | 0.000809 |
| Benzo(g,h,i)perylene | | <0.000949 | mg/L | 0.000949 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limits |
|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | | 0.0192 | mg/L | 1 | 0.0800 | 24 | 10 - 53.1 |
| Phenol-d5 | | 0.0125 | mg/L | 1 | 0.0800 | 16 | 10 - 36.9 |
| Nitrobenzene-d5 | | 0.0367 | mg/L | 1 | 0.0800 | 46 | 23.8 - 108 |
| 2-Fluorobiphenyl | | 0.0354 | mg/L | 1 | 0.0800 | 44 | 15.9 - 127 |
| 2,4,6-Tribromophenol | | 0.0445 | mg/L | 1 | 0.0800 | 56 | 10 - 123 |
| Terphenyl-d14 | | 0.0540 | mg/L | 1 | 0.0800 | 68 | 17.2 - 160 |

**Method Blank (1)**

QC Batch: 63112 Date Analyzed: 2009-08-31 Analyzed By: AH
Prep Batch: 53865 QC Preparation: 2009-08-31 Prepared By: AH

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Kjeldahl Nitrogen - N | | <2.45 | mg/L | 2.45 |

**Method Blank (1)**

QC Batch: 63168 Date Analyzed: 2009-08-28 Analyzed By: KV
Prep Batch: 53917 QC Preparation: 2009-08-28 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Nitrate and Nitrite as N | | <0.0350 | mg/L | 0.035 |

**Method Blank (1)**

QC Batch: 63220 Date Analyzed: 2009-09-03 Analyzed By: RR
Prep Batch: 53950 QC Preparation: 2009-09-03 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Dissolved Chromium | | <0.000583 | mg/L | 0.000583 |

**Method Blank (1)**

QC Batch: 63228 Date Analyzed: 2009-09-01 Analyzed By: JG
Prep Batch: 53964 QC Preparation: 2009-09-01 Prepared By: JG

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Hydroxide Alkalinity | | <1.00 | mg/L as CaCo3 | 1 |
| Carbonate Alkalinity | | <1.00 | mg/L as CaCo3 | 1 |

*continued . . .*

*method blank continued . . .*

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Bicarbonate Alkalinity | | <4.00 | mg/L as CaCo3 | 4 |
| Total Alkalinity | | <4.00 | mg/L as CaCo3 | 4 |

**Method Blank (1)**

QC Batch: 63270 Date Analyzed: 2009-09-02 Analyzed By: MD
Prep Batch: 54005 QC Preparation: 2009-09-01 Prepared By: MD

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Oil and Grease | | <6.20 | mg/L | 3.6 |

**Method Blank (1)**

QC Batch: 63285 Date Analyzed: 2009-09-04 Analyzed By: KV
Prep Batch: 54014 QC Preparation: 2009-09-04 Prepared By: KV

| Parameter | Flag | Result | Units | Reporting Limits |
|---|---|---|---|---|
| Total Organic Carbon | | 0.571 | mg/L | 0.401 |

**Duplicate (1)** Duplicated Sample: 207065

QC Batch: 63016 Date Analyzed: 2009-08-21 Analyzed By: MD
Prep Batch: 53777 QC Preparation: 2009-08-21 Prepared By: MD

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|---|---|---|---|---|---|---|
| Total Dissolved Solids | 11800 | 11500 | mg/L | 1 | 3 | 10 |

**Duplicate (1)** Duplicated Sample: 207498

QC Batch: 63078 Date Analyzed: 2009-08-21 Analyzed By: JG
Prep Batch: 53837 QC Preparation: 2009-08-21 Prepared By: JG

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|---|---|---|---|---|---|---|
| pH | 7.11 | 7.13 | s.u. | 1 | 0 | 1.1 |

**Duplicate (1)** Duplicated Sample: 207066

QC Batch: 63228 Date Analyzed: 2009-09-01 Analyzed By: JG
Prep Batch: 53964 QC Preparation: 2009-09-01 Prepared By: JG

| Param | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|---|---|---|---|---|---|---|
| Hydroxide Alkalinity | <1.00 | <1.00 | mg/L as CaCo3 | 1 | 0 | 20 |
| Carbonate Alkalinity | <1.00 | <1.00 | mg/L as CaCo3 | 1 | 0 | 20 |
| Bicarbonate Alkalinity | 178 | 178 | mg/L as CaCo3 | 1 | 0 | 20 |
| Total Alkalinity | 178 | 178 | mg/L as CaCo3 | 1 | 0 | 20 |

**Laboratory Control Spike (LCS-1)**

QC Batch: 62877 Date Analyzed: 2009-08-25 Analyzed By: ER
Prep Batch: 53669 QC Preparation: 2009-08-25 Prepared By: ER

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| GRO | 1.07 | mg/L | 1 | 1.00 | <0.152 | 107 | 75.5 - 118 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| GRO | 1.06 | mg/L | 1 | 1.00 | <0.152 | 106 | 75.5 - 118 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| Trifluorotoluene (TFT) | 0.106 | 0.106 | mg/L | 1 | 0.100 | 106 | 106 | 78.2 - 121 |
| 4-Bromofluorobenzene (4-BFB) | 0.103 | 0.104 | mg/L | 1 | 0.100 | 103 | 104 | 82.2 - 118 |

**Laboratory Control Spike (LCS-1)**

QC Batch: 62885 Date Analyzed: 2009-08-25 Analyzed By:
Prep Batch: 53675 QC Preparation: 2009-08-25 Prepared By:

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| DRO | 27.7 | mg/L | 1 | 25.0 | <0.876 | 111 | 74.3 - 158 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| DRO | 24.4 | mg/L | 1 | 25.0 | <0.876 | 98 | 74.3 - 158 | 13 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| n-Triacontane | 8.94 | 8.92 | mg/L | 1 | 10.0 | 89 | 89 | 34.4 - 149 |

**Laboratory Control Spike (LCS-1)**

QC Batch: 62908 Date Analyzed: 2009-08-26 Analyzed By: SS
Prep Batch: 53693 QC Preparation: 2009-08-25 Prepared By: SS

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Bromide | 4.83 | mg/L | 1 | 5.00 | <0.192 | 97 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Bromide | 5.06 | mg/L | 1 | 5.00 | <0.192 | 101 | 90 - 110 | 5 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62908 Date Analyzed: 2009-08-26 Analyzed By: SS
Prep Batch: 53693 QC Preparation: 2009-08-25 Prepared By: SS

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Fluoride | 5.16 | mg/L | 1 | 5.00 | <0.204 | 103 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Fluoride | 5.25 | mg/L | 1 | 5.00 | <0.204 | 105 | 90 - 110 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62908 Date Analyzed: 2009-08-26 Analyzed By: SS
Prep Batch: 53693 QC Preparation: 2009-08-25 Prepared By: SS

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Sulfate | 23.9 | mg/L | 1 | 25.0 | <0.153 | 96 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 23.8 | mg/L | 1 | 25.0 | <0.153 | 95 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Silver | 0.126 | mg/L | 1 | 0.125 | <0.00111 | 101 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Silver | 0.123 | mg/L | 1 | 0.125 | <0.00111 | 98 | 85 - 115 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Aluminum | 0.951 | mg/L | 1 | 1.00 | <0.00301 | 95 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Aluminum | 0.930 | mg/L | 1 | 1.00 | <0.00301 | 93 | 85 - 115 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Arsenic | 0.493 | mg/L | 1 | 0.500 | <0.00448 | 99 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Arsenic | 0.481 | mg/L | 1 | 0.500 | <0.00448 | 96 | 85 - 115 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Barium | 1.03 | mg/L | 1 | 1.00 | <0.00105 | 103 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Barium | 0.997 | mg/L | 1 | 1.00 | <0.00105 | 100 | 85 - 115 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Beryllium | 0.0254 | mg/L | 1 | 0.0250 | <0.000450 | 102 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Beryllium | 0.0250 | mg/L | 1 | 0.0250 | <0.000450 | 100 | 85 - 115 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Cadmium | 0.254 | mg/L | 1 | 0.250 | <0.000303 | 102 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Cadmium | 0.249 | mg/L | 1 | 0.250 | <0.000303 | 100 | 85 - 115 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Cobalt | 0.247 | mg/L | 1 | 0.250 | <0.000822 | 99 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Cobalt | 0.243 | mg/L | 1 | 0.250 | <0.000822 | 97 | 85 - 115 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Chromium | 0.0986 | mg/L | 1 | 0.100 | <0.000583 | 99 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Chromium | 0.0973 | mg/L | 1 | 0.100 | <0.000583 | 97 | 85 - 115 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Copper | 0.127 | mg/L | 1 | 0.125 | <0.000843 | 102 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Copper | 0.125 | mg/L | 1 | 0.125 | <0.000843 | 100 | 85 - 115 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Iron | 0.509 | mg/L | 1 | 0.500 | <0.000872 | 102 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Iron | 0.499 | mg/L | 1 | 0.500 | <0.000872 | 100 | 85 - 115 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Manganese | 0.256 | mg/L | 1 | 0.250 | <0.000305 | 102 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Manganese | 0.252 | mg/L | 1 | 0.250 | <0.000305 | 101 | 85 - 115 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Molybdenum | 0.545 | mg/L | 1 | 0.500 | <0.00119 | 109 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Molybdenum | 0.537 | mg/L | 1 | 0.500 | <0.00119 | 107 | 85 - 115 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Nickel | 0.255 | mg/L | 1 | 0.250 | <0.00121 | 102 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Nickel | 0.251 | mg/L | 1 | 0.250 | <0.00121 | 100 | 85 - 115 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Phosphorous | 0.477 | mg/L | 1 | 0.500 | <0.00289 | 95 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Phosphorous | 0.466 | mg/L | 1 | 0.500 | <0.00289 | 93 | 85 - 115 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Lead | 0.494 | mg/L | 1 | 0.500 | <0.00326 | 99 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Lead | 0.483 | mg/L | 1 | 0.500 | <0.00326 | 97 | 85 - 115 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Antimony | 0.237 | mg/L | 1 | 0.250 | <0.00440 | 95 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Antimony | 0.240 | mg/L | 1 | 0.250 | <0.00440 | 96 | 85 - 115 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Selenium | 0.439 | mg/L | 1 | 0.500 | <0.00508 | 88 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Selenium | 0.439 | mg/L | 1 | 0.500 | <0.00508 | 88 | 85 - 115 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Thallium | 0.508 | mg/L | 1 | 0.500 | <0.00488 | 102 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Thallium | 0.497 | mg/L | 1 | 0.500 | <0.00488 | 99 | 85 - 115 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Vanadium | 0.247 | mg/L | 1 | 0.250 | <0.000426 | 99 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Vanadium | 0.242 | mg/L | 1 | 0.250 | <0.000426 | 97 | 85 - 115 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Zinc | 0.226 | mg/L | 1 | 0.250 | <0.000465 | 90 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Zinc | 0.221 | mg/L | 1 | 0.250 | <0.000465 | 88 | 85 - 115 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62924 Date Analyzed: 2009-08-26 Analyzed By: DS
Prep Batch: 53706 QC Preparation: 2009-08-26 Prepared By: DS

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| alpha-BHC | 0.000998 | mg/L | 1 | 0.00100 | <0.0000255 | 100 | 51.2 - 123 |
| gamma-BHC (Lindane) | 0.000968 | mg/L | 1 | 0.00100 | <0.0000338 | 97 | 48.5 - 122 |
| beta-BHC | 0.000901 | mg/L | 1 | 0.00100 | <0.0000309 | 90 | 54.3 - 122 |

*continued ...*

*control spikes continued ...*

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| delta-BHC | 0.00105 | mg/L | 1 | 0.00100 | <0.0000858 | 105 | 45.5 - 126 |
| Heptachlor | 0.000982 | mg/L | 1 | 0.00100 | <0.0000372 | 98 | 45 - 126 |
| Aldrin | 0.000909 | mg/L | 1 | 0.00100 | <0.00000971 | 91 | 49.7 - 126 |
| Heptachlor Epoxide | 0.000908 | mg/L | 1 | 0.00100 | <0.0000215 | 91 | 43.5 - 127 |
| gamma-Chlordane | 0.000910 | mg/L | 1 | 0.00100 | <0.0000305 | 91 | 48.2 - 126 |
| alpha-Chlordane | 0.000912 | mg/L | 1 | 0.00100 | <0.0000501 | 91 | 45.2 - 126 |
| Endosulfan I | 0.000927 | mg/L | 1 | 0.00100 | <0.0000186 | 93 | 45.1 - 126 |
| p,p-DDE | 0.000946 | mg/L | 1 | 0.00100 | <0.0000387 | 95 | 45.5 - 128 |
| Dieldrin | 0.000921 | mg/L | 1 | 0.00100 | <0.0000185 | 92 | 45.8 - 127 |
| Endrin | 0.000921 | mg/L | 1 | 0.00100 | <0.0000745 | 92 | 30.7 - 140 |
| Endosulfan II | 0.000952 | mg/L | 1 | 0.00100 | <0.00000955 | 95 | 51.5 - 121 |
| p,p-DDD | 0.000989 | mg/L | 1 | 0.00100 | <0.0000182 | 99 | 36.8 - 131 |
| Endrin aldehyde | 0.000888 | mg/L | 1 | 0.00100 | <0.000146 | 89 | 44.2 - 132 |
| p,p-DDT | 0.00101 | mg/L | 1 | 0.00100 | <0.0000222 | 101 | 55.4 - 126 |
| Endosulfan sulfate | 0.000915 | mg/L | 1 | 0.00100 | <0.0000183 | 92 | 30.8 - 142 |
| Methoxychlor | 0.000907 | mg/L | 1 | 0.00100 | <0.00000734 | 91 | 38 - 134 |
| Endrin Ketone | 0.00111 | mg/L | 1 | 0.00100 | 8.73e-05 | 102 | 46.1 - 123 |
| Toxaphene | 0.00506 | mg/L | 1 | 0.00500 | <0.00102 | 101 | 48.8 - 158 |
| Technical Chlordane | 0.00471 | mg/L | 1 | 0.00500 | <0.000277 | 94 | 60.9 - 133 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| alpha-BHC | 0.00100 | mg/L | 1 | 0.00100 | <0.0000255 | 100 | 51.2 - 123 | 0 | 20 |
| gamma-BHC (Lindane) | 0.000974 | mg/L | 1 | 0.00100 | <0.0000338 | 97 | 48.5 - 122 | 1 | 20 |
| beta-BHC | 0.000904 | mg/L | 1 | 0.00100 | <0.0000309 | 90 | 54.3 - 122 | 0 | 20 |
| delta-BHC | 0.00106 | mg/L | 1 | 0.00100 | <0.0000858 | 106 | 45.5 - 126 | 1 | 20 |
| Heptachlor | 0.000985 | mg/L | 1 | 0.00100 | <0.0000372 | 98 | 45 - 126 | 0 | 20 |
| Aldrin | 0.000911 | mg/L | 1 | 0.00100 | <0.00000971 | 91 | 49.7 - 126 | 0 | 20 |
| Heptachlor Epoxide | 0.000905 | mg/L | 1 | 0.00100 | <0.0000215 | 90 | 43.5 - 127 | 0 | 20 |
| gamma-Chlordane | 0.000910 | mg/L | 1 | 0.00100 | <0.0000305 | 91 | 48.2 - 126 | 0 | 20 |
| alpha-Chlordane | 0.000911 | mg/L | 1 | 0.00100 | <0.0000501 | 91 | 45.2 - 126 | 0 | 20 |
| Endosulfan I | 0.000925 | mg/L | 1 | 0.00100 | <0.0000186 | 92 | 45.1 - 126 | 0 | 20 |
| p,p-DDE | 0.000937 | mg/L | 1 | 0.00100 | <0.0000387 | 94 | 45.5 - 128 | 1 | 20 |
| Dieldrin | 0.000921 | mg/L | 1 | 0.00100 | <0.0000185 | 92 | 45.8 - 127 | 0 | 20 |
| Endrin | 0.000921 | mg/L | 1 | 0.00100 | <0.0000745 | 92 | 30.7 - 140 | 0 | 20 |
| Endosulfan II | 0.000952 | mg/L | 1 | 0.00100 | <0.00000955 | 95 | 51.5 - 121 | 0 | 20 |
| p,p-DDD | 0.000983 | mg/L | 1 | 0.00100 | <0.0000182 | 98 | 36.8 - 131 | 1 | 20 |
| Endrin aldehyde | 0.000887 | mg/L | 1 | 0.00100 | <0.000146 | 89 | 44.2 - 132 | 0 | 20 |
| p,p-DDT | 0.00102 | mg/L | 1 | 0.00100 | <0.0000222 | 102 | 55.4 - 126 | 1 | 20 |
| Endosulfan sulfate | 0.000916 | mg/L | 1 | 0.00100 | <0.0000183 | 92 | 30.8 - 142 | 0 | 20 |
| Methoxychlor | 0.000904 | mg/L | 1 | 0.00100 | <0.00000734 | 90 | 38 - 134 | 0 | 20 |
| Endrin Ketone | 0.00111 | mg/L | 1 | 0.00100 | 8.73e-05 | 102 | 46.1 - 123 | 0 | 20 |
| Toxaphene | 0.00468 | mg/L | 1 | 0.00500 | <0.00102 | 94 | 48.8 - 158 | 8 | 20 |
| Technical Chlordane | 0.00474 | mg/L | 1 | 0.00500 | <0.000277 | 95 | 60.9 - 133 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | 0.000897 | 0.000955 | mg/L | 1 | 0.00100 | 90 | 96 | 16 - 138 |
| Deca chlorobiphenyl | 0.000859 | 0.000874 | mg/L | 1 | 0.00100 | 86 | 87 | 29.3 - 129 |

**Laboratory Control Spike (LCS-1)**

QC Batch: 62929 Date Analyzed: 2009-08-26 Analyzed By: DS
Prep Batch: 53708 QC Preparation: 2009-08-26 Prepared By: DS

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| HMX | 2.35 | μg/L | 1 | 2.50 | <0.123 | 94 | 63.5 - 125 |
| RDX | 2.42 | μg/L | 1 | 2.50 | <0.298 | 97 | 74.5 - 124 |
| 1,3,5-Trinitrobenzene | 2.38 | μg/L | 1 | 2.50 | <0.339 | 95 | 54.1 - 131 |
| 1,3-Dinitrobenzene | 2.45 | μg/L | 1 | 2.50 | <0.389 | 98 | 72 - 112 |
| Nitrobenzene | 2.48 | μg/L | 1 | 2.50 | <0.379 | 99 | 72.5 - 126 |
| Tetryl | 2.32 | μg/L | 1 | 2.50 | <0.413 | 93 | 35.9 - 149 |
| TNT | 2.52 | μg/L | 1 | 2.50 | <0.464 | 101 | 40.7 - 129 |
| 4-Amino-DNT | 2.46 | μg/L | 1 | 2.50 | <0.319 | 98 | 80 - 120 |
| 2-Amino-DNT | 2.59 | μg/L | 1 | 2.50 | <0.391 | 104 | 80 - 120 |
| 2,6-DNT | 2.12 | μg/L | 1 | 2.50 | <0.323 | 85 | 80 - 120 |
| 2,4-DNT | 2.50 | μg/L | 1 | 2.50 | <0.366 | 100 | 80 - 120 |
| 2-NT | 2.46 | μg/L | 1 | 2.50 | <0.379 | 98 | 49.8 - 139 |
| 4-NT | 2.43 | μg/L | 1 | 2.50 | <0.398 | 97 | 56.3 - 141 |
| 3-NT | 2.40 | μg/L | 1 | 2.50 | <0.346 | 96 | 66.2 - 129 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| HMX | 2.56 | μg/L | 1 | 2.50 | <0.123 | 102 | 63.5 - 125 | 9 | 20 |
| RDX | 2.48 | μg/L | 1 | 2.50 | <0.298 | 99 | 74.5 - 124 | 2 | 20 |
| 1,3,5-Trinitrobenzene | 2.48 | μg/L | 1 | 2.50 | <0.339 | 99 | 54.1 - 131 | 4 | 20 |
| 1,3-Dinitrobenzene | 2.47 | μg/L | 1 | 2.50 | <0.389 | 99 | 72 - 112 | 1 | 20 |
| Nitrobenzene | 2.53 | μg/L | 1 | 2.50 | <0.379 | 101 | 72.5 - 126 | 2 | 20 |
| Tetryl | 2.45 | μg/L | 1 | 2.50 | <0.413 | 98 | 35.9 - 149 | 5 | 20 |
| TNT | 2.48 | μg/L | 1 | 2.50 | <0.464 | 99 | 40.7 - 129 | 2 | 20 |
| 4-Amino-DNT | 2.48 | μg/L | 1 | 2.50 | <0.319 | 99 | 80 - 120 | 1 | 20 |
| 2-Amino-DNT | 2.66 | μg/L | 1 | 2.50 | <0.391 | 106 | 80 - 120 | 3 | 20 |
| 2,6-DNT | 2.35 | μg/L | 1 | 2.50 | <0.323 | 94 | 80 - 120 | 10 | 20 |
| 2,4-DNT | 2.61 | μg/L | 1 | 2.50 | <0.366 | 104 | 80 - 120 | 4 | 20 |
| 2-NT | 2.58 | μg/L | 1 | 2.50 | <0.379 | 103 | 49.8 - 139 | 5 | 20 |
| 4-NT | 2.50 | μg/L | 1 | 2.50 | <0.398 | 100 | 56.3 - 141 | 3 | 20 |
| 3-NT | 2.38 | μg/L | 1 | 2.50 | <0.346 | 95 | 66.2 - 129 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

*continued ...*

*control spikes continued ...*

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
| 1,2-Dinitrobenzene | 2.32 | 2.52 | $\mu$g/L | 1 | 2.50 | 93 | 101 | 53 - 134 |

**Laboratory Control Spike (LCS-1)**

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Calcium | 54.3 | mg/L | 1 | 50.0 | <0.117 | 109 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Calcium | 53.7 | mg/L | 1 | 50.0 | <0.117 | 107 | 85 - 115 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Potassium | 50.4 | mg/L | 1 | 50.0 | <0.172 | 101 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Potassium | 49.9 | mg/L | 1 | 50.0 | <0.172 | 100 | 85 - 115 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Magnesium | 53.0 | mg/L | 1 | 50.0 | <0.160 | 106 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Magnesium | 52.5 | mg/L | 1 | 50.0 | <0.160 | 105 | 85 - 115 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Sodium | 50.8 | mg/L | 1 | 50.0 | <0.0500 | 102 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Sodium | 52.2 | mg/L | 1 | 50.0 | <0.0500 | 104 | 85 - 115 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62950 Date Analyzed: 2009-08-26 Analyzed By: SS
Prep Batch: 53722 QC Preparation: 2009-08-26 Prepared By: SS

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Chloride | 23.7 | mg/L | 1 | 25.0 | <0.157 | 95 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 23.8 | mg/L | 1 | 25.0 | <0.157 | 95 | 90 - 110 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 62974 Date Analyzed: 2009-08-27 Analyzed By: TP
Prep Batch: 53720 QC Preparation: 2009-08-27 Prepared By: TP

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Mercury | 0.00102 | mg/L | 1 | 0.00100 | <0.0000329 | 102 | 90.3 - 108 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Mercury | 0.00100 | mg/L | 1 | 0.00100 | <0.0000329 | 100 | 90.3 - 108 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 63035 Date Analyzed: 2009-08-28 Analyzed By: MN
Prep Batch: 53805 QC Preparation: 2009-08-28 Prepared By: MN

| Param | | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| Phenol | | 0.0176 | mg/L | 1 | 0.0800 | <0.000509 | 22 | 10 - 66.5 |
| 2-Chlorophenol | | 0.0397 | mg/L | 1 | 0.0800 | <0.000537 | 50 | 11.2 - 108 |
| 1,4-Dichlorobenzene (para) | | 0.0335 | mg/L | 1 | 0.0800 | <0.000440 | 42 | 16 - 101 |
| N-Nitrosodi-n-propylamine | | 0.0430 | mg/L | 1 | 0.0800 | <0.000732 | 54 | 10 - 142 |
| 1,2,4-Trichlorobenzene | | 0.0359 | mg/L | 1 | 0.0800 | <0.000404 | 45 | 18 - 118 |
| Naphthalene | | 0.0370 | mg/L | 1 | 0.0800 | <0.000489 | 46 | 20.2 - 114 |
| 4-Chloro-3-methylphenol | | 0.0587 | mg/L | 1 | 0.0800 | <0.000522 | 73 | 21.5 - 125 |
| Acenaphthylene | | 0.0484 | mg/L | 1 | 0.0800 | <0.000586 | 60 | 25.8 - 121 |
| Acenaphthene | | 0.0474 | mg/L | 1 | 0.0800 | <0.000423 | 59 | 33.5 - 122 |
| 4-Nitrophenol | | 0.0208 | mg/L | 1 | 0.0800 | <0.00185 | 26 | 10 - 125 |
| 2,4-Dinitrotoluene | | 0.0546 | mg/L | 1 | 0.0800 | <0.000911 | 68 | 53 - 130 |
| Fluorene | | 0.0519 | mg/L | 1 | 0.0800 | <0.000648 | 65 | 44.6 - 117 |
| Pentachlorophenol | | 0.0389 | mg/L | 1 | 0.0800 | <0.000435 | 49 | 10 - 139 |
| Anthracene | | 0.0533 | mg/L | 1 | 0.0800 | <0.000428 | 67 | 57.5 - 115 |
| Phenanthrene | | 0.0536 | mg/L | 1 | 0.0800 | <0.000548 | 67 | 55.5 - 118 |
| Fluoranthene | | 0.0566 | mg/L | 1 | 0.0800 | <0.000632 | 71 | 57 - 122 |
| Pyrene | | 0.0522 | mg/L | 1 | 0.0800 | <0.000723 | 65 | 58.5 - 130 |
| Benzo(a)anthracene | [1] | 0.0496 | mg/L | 1 | 0.0800 | <0.000527 | 62 | 63.4 - 109 |
| Chrysene | | 0.0528 | mg/L | 1 | 0.0800 | <0.000638 | 66 | 54.7 - 114 |
| Benzo(b)fluoranthene | [2] | 0.0422 | mg/L | 1 | 0.0800 | <0.000879 | 53 | 64.8 - 120 |
| Benzo(k)fluoranthene | | 0.0707 | mg/L | 1 | 0.0800 | <0.000845 | 88 | 70.3 - 114 |
| Benzo(a)pyrene | | 0.0590 | mg/L | 1 | 0.0800 | <0.00167 | 74 | 63.7 - 120 |
| Indeno(1,2,3-cd)pyrene | | 0.0580 | mg/L | 1 | 0.0800 | <0.000862 | 72 | 65.4 - 119 |
| Dibenzo(a,h)anthracene | | 0.0607 | mg/L | 1 | 0.0800 | <0.000809 | 76 | 68.7 - 117 |
| Benzo(g,h,i)perylene | | 0.0608 | mg/L | 1 | 0.0800 | <0.000949 | 76 | 57.2 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Phenol | 0.0182 | mg/L | 1 | 0.0800 | <0.000509 | 23 | 10 - 66.5 | 3 | 20 |
| 2-Chlorophenol | 0.0410 | mg/L | 1 | 0.0800 | <0.000537 | 51 | 11.2 - 108 | 3 | 20 |
| 1,4-Dichlorobenzene (para) | 0.0348 | mg/L | 1 | 0.0800 | <0.000440 | 44 | 16 - 101 | 4 | 20 |
| N-Nitrosodi-n-propylamine | 0.0437 | mg/L | 1 | 0.0800 | <0.000732 | 55 | 10 - 142 | 2 | 20 |
| 1,2,4-Trichlorobenzene | 0.0365 | mg/L | 1 | 0.0800 | <0.000404 | 46 | 18 - 118 | 2 | 20 |

*continued ...*

[1] Spike analyte out of control limits. Results biased low. •
[2] Spike analyte out of control limits. Results biased low. •

*control spikes continued ...*

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Naphthalene | 0.0372 | mg/L | 1 | 0.0800 | <0.000489 | 46 | 20.2 - 114 | 0 | 20 |
| 4-Chloro-3-methylphenol | 0.0590 | mg/L | 1 | 0.0800 | <0.000522 | 74 | 21.5 - 125 | 0 | 20 |
| Acenaphthylene | 0.0490 | mg/L | 1 | 0.0800 | <0.000586 | 61 | 25.8 - 121 | 1 | 20 |
| Acenaphthene | 0.0487 | mg/L | 1 | 0.0800 | <0.000423 | 61 | 33.5 - 122 | 3 | 20 |
| 4-Nitrophenol | 0.0205 | mg/L | 1 | 0.0800 | <0.00185 | 26 | 10 - 125 | 1 | 20 |
| 2,4-Dinitrotoluene | 0.0552 | mg/L | 1 | 0.0800 | <0.000911 | 69 | 53 - 130 | 1 | 20 |
| Fluorene | 0.0534 | mg/L | 1 | 0.0800 | <0.000648 | 67 | 44.6 - 117 | 3 | 20 |
| Pentachlorophenol | 0.0386 | mg/L | 1 | 0.0800 | <0.000435 | 48 | 10 - 139 | 1 | 20 |
| Anthracene | 0.0558 | mg/L | 1 | 0.0800 | <0.000428 | 70 | 57.5 - 115 | 5 | 20 |
| Phenanthrene | 0.0556 | mg/L | 1 | 0.0800 | <0.000548 | 70 | 55.5 - 118 | 4 | 20 |
| Fluoranthene | 0.0582 | mg/L | 1 | 0.0800 | <0.000632 | 73 | 57 - 122 | 3 | 20 |
| Pyrene | 0.0532 | mg/L | 1 | 0.0800 | <0.000723 | 66 | 58.5 - 130 | 2 | 20 |
| Benzo(a)anthracene | 0.0501 | mg/L | 1 | 0.0800 | <0.000527 | 63 | 63.4 - 109 | 1 | 20 |
| Chrysene | 0.0544 | mg/L | 1 | 0.0800 | <0.000638 | 68 | 54.7 - 114 | 3 | 20 |
| Benzo(b)fluoranthene [3] | 0.0447 | mg/L | 1 | 0.0800 | <0.000879 | 56 | 64.8 - 120 | 6 | 20 |
| Benzo(k)fluoranthene | 0.0738 | mg/L | 1 | 0.0800 | <0.000845 | 92 | 70.3 - 114 | 4 | 20 |
| Benzo(a)pyrene | 0.0612 | mg/L | 1 | 0.0800 | <0.00167 | 76 | 63.7 - 120 | 4 | 20 |
| Indeno(1,2,3-cd)pyrene | 0.0569 | mg/L | 1 | 0.0800 | <0.000862 | 71 | 65.4 - 119 | 2 | 20 |
| Dibenzo(a,h)anthracene | 0.0581 | mg/L | 1 | 0.0800 | <0.000809 | 73 | 68.7 - 117 | 4 | 20 |
| Benzo(g,h,i)perylene | 0.0600 | mg/L | 1 | 0.0800 | <0.000949 | 75 | 57.2 - 125 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | LCS Result | LCSD Result | Units | Dil. | Spike Amount | LCS Rec. | LCSD Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | 0.0240 | 0.0260 | mg/L | 1 | 0.0800 | 30 | 32 | 10 - 53.1 |
| Phenol-d5 | 0.0165 | 0.0169 | mg/L | 1 | 0.0800 | 21 | 21 | 10 - 36.9 |
| Nitrobenzene-d5 | 0.0407 | 0.0411 | mg/L | 1 | 0.0800 | 51 | 51 | 23.8 - 108 |
| 2-Fluorobiphenyl | 0.0394 | 0.0407 | mg/L | 1 | 0.0800 | 49 | 51 | 15.9 - 127 |
| 2,4,6-Tribromophenol | 0.0606 | 0.0609 | mg/L | 1 | 0.0800 | 76 | 76 | 10 - 123 |
| Terphenyl-d14 | 0.0513 | 0.0525 | mg/L | 1 | 0.0800 | 64 | 66 | 17.2 - 160 |

**Laboratory Control Spike (LCS-1)**

QC Batch: 63220 Date Analyzed: 2009-09-03 Analyzed By: RR
Prep Batch: 53950 QC Preparation: 2009-09-03 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Dissolved Chromium | 0.100 | mg/L | 1 | 0.100 | <0.000583 | 100 | 85 - 115 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Dissolved Chromium | 0.0995 | mg/L | 1 | 0.100 | <0.000583 | 100 | 85 - 115 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

[3] Spike analyte out of control limits. Results biased low. •

**Laboratory Control Spike (LCS-1)**

QC Batch: 63270 Date Analyzed: 2009-09-02 Analyzed By: MD
Prep Batch: 54005 QC Preparation: 2009-09-01 Prepared By: MD

| Param | | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| Oil and Grease | [4] | 23.9 | mg/L | 1 | 40.0 | <3.60 | 60 | 78 - 114 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| Oil and Grease | [5] | 21.5 | mg/L | 1 | 40.0 | <3.60 | 54 | 78 - 114 | 11 | 18 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Laboratory Control Spike (LCS-1)**

QC Batch: 63285 Date Analyzed: 2009-09-04 Analyzed By: KV
Prep Batch: 54014 QC Preparation: 2009-09-04 Prepared By: KV

| Param | LCS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 53.2 | mg/L | 1 | 50.0 | <0.401 | 106 | 89.5 - 114 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | LCSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 53.4 | mg/L | 1 | 50.0 | <0.401 | 107 | 89.5 - 114 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207441

QC Batch: 62877 Date Analyzed: 2009-08-25 Analyzed By: ER
Prep Batch: 53669 QC Preparation: 2009-08-25 Prepared By: ER

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| GRO | 0.974 | mg/L | 1 | 1.00 | <0.152 | 97 | 48.4 - 136 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|
| GRO | [6] | 0.678 | mg/L | 1 | 1.00 | <0.152 | 68 | 48.4 - 136 | 36 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

[4]SPECIAL: Sodium Sulfate may have caused low LCS and LCSD recovery. Results may be biased low. •
[5]SPECIAL: Sodium Sulfate may have caused low LCS and LCSD recovery. Results may be biased low. •
[6]MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

| Surrogate | | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|---|
| Trifluorotoluene (TFT) | [7] | 0.0934 | 0.0463 | mg/L | 1 | 0.1 | 93 | 46 | 70.3 - 129 |
| 4-Bromofluorobenzene (4-BFB) | [8] | 0.0931 | 0.0471 | mg/L | 1 | 0.1 | 93 | 47 | 82.5 - 118 |

**Matrix Spike (MS-1)** Spiked Sample: 207442

QC Batch: 62885 Date Analyzed: 2009-08-25 Analyzed By:
Prep Batch: 53675 QC Preparation: 2009-08-25 Prepared By:

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| DRO | 25.7 | mg/L | 1 | 25.0 | <0.876 | 103 | 29.8 - 181 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| DRO | 30.9 | mg/L | 1 | 25.0 | <0.876 | 124 | 29.8 - 181 | 18 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Surrogate | MS Result | MSD Result | Units | Dil. | Spike Amount | MS Rec. | MSD Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|---|
| n-Triacontane | 9.46 | 11.1 | mg/L | 1 | 10 | 95 | 111 | 34.4 - 185 |

**Matrix Spike (MS-1)** Spiked Sample: 207553

QC Batch: 62908 Date Analyzed: 2009-08-26 Analyzed By: SS
Prep Batch: 53693 QC Preparation: 2009-08-25 Prepared By: SS

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Bromide | 26.2 | mg/L | 5 | 25.0 | <0.960 | 105 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Bromide | 26.4 | mg/L | 5 | 25.0 | <0.960 | 106 | 90 - 110 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207553

QC Batch: 62908 Date Analyzed: 2009-08-26 Analyzed By: SS
Prep Batch: 53693 QC Preparation: 2009-08-25 Prepared By: SS

[7] Matrix spike recovery out of control limits. Use LCS/LCSD to demonstrate analysis is under control.
[8] Matrix spike recovery out of control limits. Use LCS/LCSD to demonstrate analysis is under control.

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Fluoride [9] | 29.2 | mg/L | 5 | 25.0 | <1.02 | 117 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Fluoride [10] | 35.7 | mg/L | 5 | 25.0 | <1.02 | 143 | 90 - 110 | 20 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207553

QC Batch: 62908 Date Analyzed: 2009-08-26 Analyzed By: SS
Prep Batch: 53693 QC Preparation: 2009-08-25 Prepared By: SS

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Sulfate | 160 | mg/L | 5 | 125 | 29.2 | 105 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Sulfate | 158 | mg/L | 5 | 125 | 29.2 | 103 | 90 - 110 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62909 Date Analyzed: 2009-08-26 Analyzed By: AH
Prep Batch: 53696 QC Preparation: 2009-08-26 Prepared By: AH

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Cyanide | 0.118 | mg/L | 1 | 0.120 | <0.0110 | 98 | 66.3 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Cyanide | 0.116 | mg/L | 1 | 0.120 | <0.0110 | 97 | 66.3 - 125 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

[9] Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[10] Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Silver | 0.126 | mg/L | 1 | 0.125 | <0.00111 | 101 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Silver | 0.127 | mg/L | 1 | 0.125 | <0.00111 | 102 | 75 - 125 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Aluminum | 1.24 | mg/L | 1 | 1.00 | 0.104 | 114 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Aluminum | 1.26 | mg/L | 1 | 1.00 | 0.104 | 116 | 75 - 125 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Arsenic | 0.437 | mg/L | 1 | 0.500 | <0.00448 | 87 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Arsenic | 0.444 | mg/L | 1 | 0.500 | <0.00448 | 89 | 75 - 125 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Barium | 0.929 | mg/L | 1 | 1.00 | 0.017 | 91 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Barium | 0.935 | mg/L | 1 | 1.00 | 0.017 | 92 | 75 - 125 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Beryllium | 0.0225 | mg/L | 1 | 0.0250 | <0.000450 | 90 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Beryllium | 0.0215 | mg/L | 1 | 0.0250 | <0.000450 | 86 | 75 - 125 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Cadmium | 0.219 | mg/L | 1 | 0.250 | <0.000303 | 88 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Cadmium | 0.222 | mg/L | 1 | 0.250 | <0.000303 | 89 | 75 - 125 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Cobalt | 0.220 | mg/L | 1 | 0.250 | <0.000822 | 88 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Cobalt | 0.219 | mg/L | 1 | 0.250 | <0.000822 | 88 | 75 - 125 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Chromium | 0.0810 | mg/L | 1 | 0.100 | <0.000583 | 81 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Chromium | 0.0810 | mg/L | 1 | 0.100 | <0.000583 | 81 | 75 - 125 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Copper | 0.125 | mg/L | 1 | 0.125 | <0.000843 | 100 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Copper | 0.126 | mg/L | 1 | 0.125 | <0.000843 | 101 | 75 - 125 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Iron | 0.416 | mg/L | 1 | 0.500 | 0.015 | 80 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Iron | 0.423 | mg/L | 1 | 0.500 | 0.015 | 82 | 75 - 125 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Manganese | 0.224 | mg/L | 1 | 0.250 | 0.002 | 89 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Manganese | 0.214 | mg/L | 1 | 0.250 | 0.002 | 85 | 75 - 125 | 5 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Molybdenum | 0.603 | mg/L | 1 | 0.500 | 0.169 | 87 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Molybdenum | 0.607 | mg/L | 1 | 0.500 | 0.169 | 88 | 75 - 125 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Nickel | 0.221 | mg/L | 1 | 0.250 | <0.00121 | 88 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Nickel | 0.218 | mg/L | 1 | 0.250 | <0.00121 | 87 | 75 - 125 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Phosphorous | 0.497 | mg/L | 1 | 0.500 | 0.082 | 83 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Phosphorous | 0.501 | mg/L | 1 | 0.500 | 0.082 | 84 | 75 - 125 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Lead | 0.474 | mg/L | 1 | 0.500 | <0.00326 | 95 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Lead | 0.481 | mg/L | 1 | 0.500 | <0.00326 | 96 | 75 - 125 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Antimony | 0.217 | mg/L | 1 | 0.250 | <0.00440 | 87 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Antimony | 0.225 | mg/L | 1 | 0.250 | <0.00440 | 90 | 75 - 125 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Selenium | 0.413 | mg/L | 1 | 0.500 | <0.00508 | 83 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Selenium | 0.421 | mg/L | 1 | 0.500 | <0.00508 | 84 | 75 - 125 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Thallium | 0.405 | mg/L | 1 | 0.500 | <0.00488 | 81 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Thallium | 0.403 | mg/L | 1 | 0.500 | <0.00488 | 81 | 75 - 125 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Vanadium | 0.228 | mg/L | 1 | 0.250 | 0.022 | 82 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Vanadium | 0.233 | mg/L | 1 | 0.250 | 0.022 | 84 | 75 - 125 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Zinc | 0.226 | mg/L | 1 | 0.250 | <0.000465 | 90 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Zinc | 0.225 | mg/L | 1 | 0.250 | <0.000465 | 90 | 75 - 125 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Calcium | 510 | mg/L | 1 | 50.0 | 461 | 98 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Calcium | 517 | mg/L | 1 | 50.0 | 461 | 112 | 75 - 125 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Potassium | 107 | mg/L | 1 | 50.0 | 58.7 | 97 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Potassium | 110 | mg/L | 1 | 50.0 | 58.7 | 103 | 75 - 125 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Magnesium | 605 | mg/L | 1 | 50.0 | 551 | 108 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Magnesium | 604 | mg/L | 1 | 50.0 | 551 | 106 | 75 - 125 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR
Prep Batch: 53681 QC Preparation: 2009-08-26 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Sodium | 2450 | mg/L | 1 | 50.0 | 2400 | 100 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Sodium | 2450 | mg/L | 1 | 50.0 | 2400 | 100 | 75 - 125 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207825

QC Batch: 62950 Date Analyzed: 2009-08-26 Analyzed By: SS
Prep Batch: 53722 QC Preparation: 2009-08-26 Prepared By: SS

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Chloride | 1420 | mg/L | 50 | 1250 | 138 | 102 | 90 - 110 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 1400 | mg/L | 50 | 1250 | 138 | 101 | 90 - 110 | 1 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (xMS-1)** Spiked Sample:

QC Batch: 62974 Date Analyzed: 2009-08-27 Analyzed By: TP
Prep Batch: 53720 QC Preparation: 2009-08-27 Prepared By: TP

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Mercury | 0.00101 | mg/L | 1 | 0.00100 | <0.0000329 | 101 | 80 - 116 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Mercury | 0.00101 | mg/L | 1 | 0.00100 | <0.0000329 | 101 | 80 - 116 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207473

QC Batch: 62985 Date Analyzed: 2009-08-26 Analyzed By: AH
Prep Batch: 53749 QC Preparation: 2009-08-26 Prepared By: AH

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Ammonia-N | 5.85 | mg/L | 1 | 5.00 | 0.784 | 101 | 57.2 - 133 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Ammonia-N | 5.60 | mg/L | 1 | 5.00 | 0.784 | 96 | 57.2 - 133 | 4 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207441

QC Batch: 63011 Date Analyzed: 2009-08-21 Analyzed By: MD
Prep Batch: 53772 QC Preparation: 2009-08-21 Prepared By: MD

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | 1.34 | mg/L | 1.11 | 0.556 | 0.812 | 95 | 80.1 - 118 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | 1.36 | mg/L | 1.11 | 0.556 | 0.812 | 98 | 80.1 - 118 | 2 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 63112 Date Analyzed: 2009-08-31 Analyzed By: AH
Prep Batch: 53865 QC Preparation: 2009-08-31 Prepared By: AH

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Kjeldahl Nitrogen - N | 46.2 | mg/L | 1 | 50.0 | 3.08 | 86 | 61.2 - 118 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Kjeldahl Nitrogen - N | 44.8 | mg/L | 1 | 50.0 | 3.08 | 83 | 61.2 - 118 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 208086

QC Batch: 63168 Date Analyzed: 2009-08-28 Analyzed By: KV
Prep Batch: 53917 QC Preparation: 2009-08-28 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Nitrate and Nitrite as N [11] | 208 | mg/L | 500 | 0.200 | 141 | 33500 | 80 - 120 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Nitrate and Nitrite as N [12] | 215 | mg/L | 500 | 0.200 | 141 | 37000 | 80 - 120 | 3 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207065

QC Batch: 63220 Date Analyzed: 2009-09-03 Analyzed By: RR
Prep Batch: 53950 QC Preparation: 2009-09-03 Prepared By: KV

[11] Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.
[12] Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Dissolved Chromium | 0.0927 | mg/L | 1 | 0.100 | <0.000583 | 93 | 75 - 125 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Dissolved Chromium | 0.0926 | mg/L | 1 | 0.100 | <0.000583 | 93 | 75 - 125 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1)** Spiked Sample: 207553

QC Batch: 63285 Date Analyzed: 2009-09-04 Analyzed By: KV
Prep Batch: 54014 QC Preparation: 2009-09-04 Prepared By: KV

| Param | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 51.7 | mg/L | 1 | 50.0 | 0.763 | 102 | 66.9 - 121 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param | MSD Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Total Organic Carbon | 51.6 | mg/L | 1 | 50.0 | 0.763 | 102 | 66.9 - 121 | 0 | 20 |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Standard (CCV-1)**

QC Batch: 62877 Date Analyzed: 2009-08-25 Analyzed By: ER

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| GRO | | mg/L | 1.00 | 1.05 | 105 | 80 - 120 | 2009-08-25 |

**Standard (CCV-2)**

QC Batch: 62877 Date Analyzed: 2009-08-25 Analyzed By: ER

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| GRO | | mg/L | 1.00 | 1.07 | 107 | 80 - 120 | 2009-08-25 |

**Standard (CCV-1)**

QC Batch: 62885 Date Analyzed: 2009-08-25 Analyzed By:

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| DRO | | mg/L | 250 | 280 | 112 | 80 - 120 | 2009-08-25 |

**Standard (CCV-2)**

QC Batch: 62885 Date Analyzed: 2009-08-25 Analyzed By:

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| DRO | | mg/L | 250 | 248 | 99 | 80 - 120 | 2009-08-25 |

**Standard (CCV-1)**

QC Batch: 62908 Date Analyzed: 2009-08-26 Analyzed By: SS

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Bromide | | mg/L | 5.00 | 4.85 | 97 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62908 Date Analyzed: 2009-08-26 Analyzed By: SS

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Fluoride | | mg/L | 5.00 | 5.19 | 104 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62908 Date Analyzed: 2009-08-26 Analyzed By: SS

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Sulfate | | mg/L | 25.0 | 23.9 | 96 | 90 - 110 | 2009-08-26 |

**Standard (CCV-2)**

QC Batch: 62908 Date Analyzed: 2009-08-26 Analyzed By: SS

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Bromide | | mg/L | 5.00 | 4.92 | 98 | 90 - 110 | 2009-08-26 |

**Standard (CCV-2)**

QC Batch: 62908 Date Analyzed: 2009-08-26 Analyzed By: SS

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Fluoride | | mg/L | 5.00 | 5.13 | 103 | 90 - 110 | 2009-08-26 |

**Standard (CCV-2)**

QC Batch: 62908 Date Analyzed: 2009-08-26 Analyzed By: SS

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Sulfate | | mg/L | 25.0 | 24.2 | 97 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62909 Date Analyzed: 2009-08-26 Analyzed By: AH

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Cyanide | | mg/L | 0.120 | 0.122 | 102 | 85 - 115 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62909 Date Analyzed: 2009-08-26 Analyzed By: AH

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Cyanide | | mg/L | 0.120 | 0.119 | 99 | 85 - 115 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Silver | | mg/L | 0.250 | 0.250 | 100 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Aluminum | | mg/L | 1.00 | 0.993 | 99 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Arsenic | | mg/L | 2.00 | 2.00 | 100 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Barium | | mg/L | 1.00 | 1.01 | 101 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Beryllium | | mg/L | 1.00 | 1.01 | 101 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Cadmium | | mg/L | 1.00 | 1.03 | 103 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Cobalt | | mg/L | 1.00 | 0.986 | 99 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Chromium | | mg/L | 1.00 | 1.04 | 104 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Copper | | mg/L | 1.00 | 1.01 | 101 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Iron | | mg/L | 1.00 | 1.03 | 103 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Manganese | | mg/L | 1.00 | 1.01 | 101 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Molybdenum | | mg/L | 1.00 | 0.994 | 99 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Nickel | | mg/L | 1.00 | 0.997 | 100 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Phosphorous | | mg/L | 5.00 | 5.01 | 100 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Lead | | mg/L | 2.00 | 2.03 | 102 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Antimony | | mg/L | 2.00 | 2.02 | 101 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Selenium | | mg/L | 1.00 | 1.02 | 102 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Thallium | | mg/L | 5.00 | 5.01 | 100 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Vanadium | | mg/L | 1.00 | 1.04 | 104 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Zinc | | mg/L | 1.00 | 1.04 | 104 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Silver | | mg/L | 0.125 | 0.127 | 102 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Aluminum | | mg/L | 1.00 | 0.985 | 98 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Arsenic | | mg/L | 1.00 | 0.993 | 99 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Barium | | mg/L | 1.00 | 1.02 | 102 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Beryllium | | mg/L | 1.00 | 0.986 | 99 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Cadmium | | mg/L | 1.00 | 1.02 | 102 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Cobalt | | mg/L | 1.00 | 0.995 | 100 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Chromium | | mg/L | 1.00 | 1.01 | 101 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Copper | | mg/L | 1.00 | 0.992 | 99 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Iron | | mg/L | 1.00 | 1.02 | 102 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Manganese | | mg/L | 1.00 | 0.995 | 100 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Molybdenum | | mg/L | 1.00 | 0.988 | 99 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Nickel | | mg/L | 1.00 | 0.986 | 99 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Phosphorous | | mg/L | 5.00 | 4.86 | 97 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Lead | | mg/L | 1.00 | 1.00 | 100 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Antimony | | mg/L | 1.00 | 0.991 | 99 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Selenium | | mg/L | 1.00 | 0.996 | 100 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Thallium | | mg/L | 1.00 | 1.01 | 101 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Vanadium | | mg/L | 1.00 | 1.03 | 103 | 90 - 110 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62912 Date Analyzed: 2009-08-26 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Zinc | | mg/L | 1.00 | 1.01 | 101 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62924 Date Analyzed: 2009-08-26 Analyzed By: DS

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| alpha-BHC | | mg/L | 0.100 | 0.101 | 101 | 85 - 115 | 2009-08-26 |
| gamma-BHC (Lindane) | | mg/L | 0.100 | 0.101 | 101 | 85 - 115 | 2009-08-26 |
| beta-BHC | | mg/L | 0.100 | 0.0993 | 99 | 85 - 115 | 2009-08-26 |
| delta-BHC | | mg/L | 0.100 | 0.101 | 101 | 85 - 115 | 2009-08-26 |
| Heptachlor | | mg/L | 0.100 | 0.105 | 105 | 85 - 115 | 2009-08-26 |
| Aldrin | | mg/L | 0.100 | 0.0948 | 95 | 85 - 115 | 2009-08-26 |
| Heptachlor Epoxide | | mg/L | 0.100 | 0.0955 | 96 | 85 - 115 | 2009-08-26 |
| gamma-Chlordane | | mg/L | 0.100 | 0.0960 | 96 | 85 - 115 | 2009-08-26 |
| alpha-Chlordane | | mg/L | 0.100 | 0.0966 | 97 | 85 - 115 | 2009-08-26 |
| Endosulfan I | | mg/L | 0.100 | 0.0972 | 97 | 85 - 115 | 2009-08-26 |
| p,p-DDE | | mg/L | 0.100 | 0.0976 | 98 | 85 - 115 | 2009-08-26 |
| Dieldrin | | mg/L | 0.100 | 0.0931 | 93 | 85 - 115 | 2009-08-26 |
| Endrin | | mg/L | 0.100 | 0.0974 | 97 | 85 - 115 | 2009-08-26 |
| Endosulfan II | | mg/L | 0.100 | 0.101 | 101 | 85 - 115 | 2009-08-26 |
| p,p-DDD | | mg/L | 0.100 | 0.102 | 102 | 85 - 115 | 2009-08-26 |
| Endrin aldehyde | | mg/L | 0.100 | 0.0920 | 92 | 85 - 115 | 2009-08-26 |
| p,p-DDT | | mg/L | 0.100 | 0.109 | 109 | 85 - 115 | 2009-08-26 |
| Endosulfan sulfate | | mg/L | 0.100 | 0.103 | 103 | 85 - 115 | 2009-08-26 |
| Methoxychlor | | mg/L | 0.100 | 0.101 | 101 | 85 - 115 | 2009-08-26 |
| Endrin Ketone | [13] | mg/L | 0.100 | 0.125 | 125 | 85 - 115 | 2009-08-26 |
| Toxaphene | | mg/L | 1.00 | 1.13 | 113 | 85 - 115 | 2009-08-26 |
| Technical Chlordane | | mg/L | 1.00 | 1.15 | 115 | 85 - 115 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62924 Date Analyzed: 2009-08-26 Analyzed By: DS

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| alpha-BHC | | mg/L | 0.100 | 0.0931 | 93 | 85 - 115 | 2009-08-26 |
| gamma-BHC (Lindane) | | mg/L | 0.100 | 0.0929 | 93 | 85 - 115 | 2009-08-26 |
| beta-BHC | | mg/L | 0.100 | 0.0924 | 92 | 85 - 115 | 2009-08-26 |
| delta-BHC | | mg/L | 0.100 | 0.0943 | 94 | 85 - 115 | 2009-08-26 |
| Heptachlor | | mg/L | 0.100 | 0.0963 | 96 | 85 - 115 | 2009-08-26 |
| Aldrin | | mg/L | 0.100 | 0.0886 | 89 | 85 - 115 | 2009-08-26 |
| Heptachlor Epoxide | | mg/L | 0.100 | 0.0904 | 90 | 85 - 115 | 2009-08-26 |
| gamma-Chlordane | | mg/L | 0.100 | 0.0902 | 90 | 85 - 115 | 2009-08-26 |
| alpha-Chlordane | | mg/L | 0.100 | 0.0906 | 91 | 85 - 115 | 2009-08-26 |
| Endosulfan I | | mg/L | 0.100 | 0.0911 | 91 | 85 - 115 | 2009-08-26 |
| p,p-DDE | | mg/L | 0.100 | 0.0953 | 95 | 85 - 115 | 2009-08-26 |
| Dieldrin | | mg/L | 0.100 | 0.0884 | 88 | 85 - 115 | 2009-08-26 |
| Endrin | | mg/L | 0.100 | 0.0930 | 93 | 85 - 115 | 2009-08-26 |
| Endosulfan II | | mg/L | 0.100 | 0.0977 | 98 | 85 - 115 | 2009-08-26 |
| p,p-DDD | | mg/L | 0.100 | 0.103 | 103 | 85 - 115 | 2009-08-26 |

*continued ...*

[13] Endrin Ketone above the range for calibration verification. Entire QC batch non-detect, bias high. •

*standard continued ...*

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Endrin aldehyde | | mg/L | 0.100 | 0.0888 | 89 | 85 - 115 | 2009-08-26 |
| p,p-DDT | | mg/L | 0.100 | 0.107 | 107 | 85 - 115 | 2009-08-26 |
| Endosulfan sulfate | | mg/L | 0.100 | 0.0968 | 97 | 85 - 115 | 2009-08-26 |
| Methoxychlor | | mg/L | 0.100 | 0.0980 | 98 | 85 - 115 | 2009-08-26 |
| Endrin Ketone | [14] | mg/L | 0.100 | 0.131 | 131 | 85 - 115 | 2009-08-26 |
| Toxaphene | | mg/L | 1.00 | 1.15 | 115 | 85 - 115 | 2009-08-26 |
| Technical Chlordane | | mg/L | 1.00 | 1.12 | 112 | 85 - 115 | 2009-08-26 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limit |
|---|---|---|---|---|---|---|---|
| 2,4,5,6-Tetrachloro-m-xylene | | 0.0994 | mg/L | 1 | 0.100 | 99 | 85 - 115 |
| Deca chlorobiphenyl | | 0.101 | mg/L | 1 | 0.100 | 101 | 85 - 115 |

**Standard (ICV-1)**

QC Batch: 62929 Date Analyzed: 2009-08-26 Analyzed By: DS

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| HMX | | $\mu$g/L | 500 | 496 | 99 | 85 - 115 | 2009-08-26 |
| RDX | | $\mu$g/L | 500 | 479 | 96 | 85 - 115 | 2009-08-26 |
| 1,3,5-Trinitrobenzene | | $\mu$g/L | 500 | 491 | 98 | 85 - 115 | 2009-08-26 |
| 1,3-Dinitrobenzene | | $\mu$g/L | 500 | 506 | 101 | 85 - 115 | 2009-08-26 |
| Nitrobenzene | | $\mu$g/L | 500 | 505 | 101 | 85 - 115 | 2009-08-26 |
| Tetryl | | $\mu$g/L | 500 | 484 | 97 | 85 - 115 | 2009-08-26 |
| TNT | | $\mu$g/L | 500 | 500 | 100 | 85 - 115 | 2009-08-26 |
| 4-Amino-DNT | | $\mu$g/L | 500 | 527 | 105 | 85 - 115 | 2009-08-26 |
| 2-Amino-DNT | | $\mu$g/L | 500 | 561 | 112 | 85 - 115 | 2009-08-26 |
| 2,6-DNT | | $\mu$g/L | 500 | 471 | 94 | 85 - 115 | 2009-08-26 |
| 2,4-DNT | | $\mu$g/L | 500 | 507 | 101 | 85 - 115 | 2009-08-26 |
| 2-NT | | $\mu$g/L | 500 | 518 | 104 | 85 - 115 | 2009-08-26 |
| 4-NT | | $\mu$g/L | 500 | 446 | 89 | 85 - 115 | 2009-08-26 |
| 3-NT | | $\mu$g/L | 500 | 438 | 88 | 85 - 115 | 2009-08-26 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limit |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | | 488 | $\mu$g/L | 1 | 500 | 98 | 85 - 115 |

**Standard (CCV-1)**

QC Batch: 62929 Date Analyzed: 2009-08-26 Analyzed By: DS

[14] Endrin Ketone above the range for calibration verification. Entire QC batch non-detect, bias high. •

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| HMX | | µg/L | 500 | 498 | 100 | 85 - 115 | 2009-08-26 |
| RDX | | µg/L | 500 | 485 | 97 | 85 - 115 | 2009-08-26 |
| 1,3,5-Trinitrobenzene | | µg/L | 500 | 501 | 100 | 85 - 115 | 2009-08-26 |
| 1,3-Dinitrobenzene | | µg/L | 500 | 488 | 98 | 85 - 115 | 2009-08-26 |
| Nitrobenzene | | µg/L | 500 | 522 | 104 | 85 - 115 | 2009-08-26 |
| Tetryl | | µg/L | 500 | 492 | 98 | 85 - 115 | 2009-08-26 |
| TNT | | µg/L | 500 | 484 | 97 | 85 - 115 | 2009-08-26 |
| 4-Amino-DNT | | µg/L | 500 | 496 | 99 | 85 - 115 | 2009-08-26 |
| 2-Amino-DNT | | µg/L | 500 | 552 | 110 | 85 - 115 | 2009-08-26 |
| 2,6-DNT | | µg/L | 500 | 453 | 91 | 85 - 115 | 2009-08-26 |
| 2,4-DNT | | µg/L | 500 | 522 | 104 | 85 - 115 | 2009-08-26 |
| 2-NT | | µg/L | 500 | 500 | 100 | 85 - 115 | 2009-08-26 |
| 4-NT | | µg/L | 500 | 455 | 91 | 85 - 115 | 2009-08-26 |
| 3-NT | | µg/L | 500 | 454 | 91 | 85 - 115 | 2009-08-26 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limit |
|---|---|---|---|---|---|---|---|
| 1,2-Dinitrobenzene | | 474 | µg/L | 1 | 500 | 95 | 85 - 115 |

**Standard (ICV-1)**

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Calcium | | mg/L | 50.0 | 53.8 | 108 | 90 - 110 | 2009-08-27 |

**Standard (ICV-1)**

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Potassium | | mg/L | 50.0 | 49.9 | 100 | 90 - 110 | 2009-08-27 |

**Standard (ICV-1)**

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Magnesium | | mg/L | 50.0 | 53.8 | 108 | 90 - 110 | 2009-08-27 |

**Standard (ICV-1)**

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Sodium | | mg/L | 50.0 | 51.1 | 102 | 90 - 110 | 2009-08-27 |

**Standard (CCV-1)**

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Calcium | | mg/L | 50.0 | 53.1 | 106 | 90 - 110 | 2009-08-27 |

**Standard (CCV-1)**

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Potassium | | mg/L | 50.0 | 49.9 | 100 | 90 - 110 | 2009-08-27 |

**Standard (CCV-1)**

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Magnesium | | mg/L | 50.0 | 53.1 | 106 | 90 - 110 | 2009-08-27 |

**Standard (CCV-1)**

QC Batch: 62934 Date Analyzed: 2009-08-27 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Sodium | | mg/L | 50.0 | 52.4 | 105 | 90 - 110 | 2009-08-27 |

**Standard (CCV-1)**

QC Batch: 62950 Date Analyzed: 2009-08-26 Analyzed By: SS

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Chloride | | mg/L | 25.0 | 23.6 | 94 | 90 - 110 | 2009-08-26 |

**Standard (CCV-2)**

QC Batch: 62950 Date Analyzed: 2009-08-26 Analyzed By: SS

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Chloride | | mg/L | 25.0 | 23.7 | 95 | 90 - 110 | 2009-08-26 |

**Standard (ICV-1)**

QC Batch: 62974 Date Analyzed: 2009-08-27 Analyzed By: TP

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Mercury | | mg/L | 0.00100 | 0.00106 | 106 | 90 - 110 | 2009-08-27 |

**Standard (CCV-1)**

QC Batch: 62974 Date Analyzed: 2009-08-27 Analyzed By: TP

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Mercury | | mg/L | 0.00100 | 0.00102 | 102 | 90 - 110 | 2009-08-27 |

**Standard (ICV-1)**

QC Batch: 62985 Date Analyzed: 2009-08-26 Analyzed By: AH

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Ammonia-N | | mg/L | 5.00 | 4.98 | 100 | 85 - 115 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 62985 Date Analyzed: 2009-08-26 Analyzed By: AH

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Ammonia-N | | mg/L | 5.00 | 5.10 | 102 | 85 - 115 | 2009-08-26 |

**Standard (CCV-1)**

QC Batch: 63011 Date Analyzed: 2009-08-21 Analyzed By: MD

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | | mg/L | 0.500 | 0.489 | 98 | 90 - 110 | 2009-08-21 |

**Standard (CCV-2)**

QC Batch: 63011 Date Analyzed: 2009-08-21 Analyzed By: MD

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Hexavalent Chromium | | mg/L | 0.500 | 0.492 | 98 | 90 - 110 | 2009-08-21 |

**Standard (ICV-1)**

QC Batch: 63016 Date Analyzed: 2009-08-21 Analyzed By: MD

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | mg/L | 1000 | 989 | 99 | 90 - 110 | 2009-08-21 |

**Standard (CCV-1)**

QC Batch: 63016 Date Analyzed: 2009-08-21 Analyzed By: MD

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Dissolved Solids | | mg/L | 1000 | 1000 | 100 | 90 - 110 | 2009-08-21 |

**Standard (CCV-1)**

QC Batch: 63035 Date Analyzed: 2009-08-28 Analyzed By: MN

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Phenol | | mg/L | 60.0 | 59.0 | 98 | 80 - 120 | 2009-08-28 |
| 1,4-Dichlorobenzene (para) | | mg/L | 60.0 | 59.6 | 99 | 80 - 120 | 2009-08-28 |
| 2-Nitrophenol | | mg/L | 60.0 | 64.9 | 108 | 80 - 120 | 2009-08-28 |
| 2,4-Dichlorophenol | | mg/L | 60.0 | 68.8 | 115 | 80 - 120 | 2009-08-28 |
| Hexachlorobutadiene | | mg/L | 60.0 | 59.0 | 98 | 80 - 120 | 2009-08-28 |
| 4-Chloro-3-methylphenol | [15] | mg/L | 60.0 | 76.1 | 127 | 80 - 120 | 2009-08-28 |
| 2,4,6-Trichlorophenol | | mg/L | 60.0 | 65.0 | 108 | 80 - 120 | 2009-08-28 |
| Acenaphthene | | mg/L | 60.0 | 61.1 | 102 | 80 - 120 | 2009-08-28 |
| Diphenylamine | | mg/L | 60.0 | 59.9 | 100 | 80 - 120 | 2009-08-28 |
| Pentachlorophenol | | mg/L | 60.0 | 56.0 | 93 | 80 - 120 | 2009-08-28 |
| Fluoranthene | | mg/L | 60.0 | 58.4 | 97 | 80 - 120 | 2009-08-28 |
| Di-n-octylphthalate | | mg/L | 60.0 | 67.2 | 112 | 80 - 120 | 2009-08-28 |
| Benzo(a)pyrene | | mg/L | 60.0 | 63.4 | 106 | 80 - 120 | 2009-08-28 |

| Surrogate | Flag | Result | Units | Dilution | Spike Amount | Percent Recovery | Recovery Limit |
|---|---|---|---|---|---|---|---|
| 2-Fluorophenol | | 64.0 | mg/L | 1 | 60.0 | 107 | 80 - 120 |
| Phenol-d5 | | 57.6 | mg/L | 1 | 60.0 | 96 | 80 - 120 |
| Nitrobenzene-d5 | | 60.3 | mg/L | 1 | 60.0 | 100 | 80 - 120 |
| 2-Fluorobiphenyl | | 60.8 | mg/L | 1 | 60.0 | 101 | 80 - 120 |
| 2,4,6-Tribromophenol | | 71.4 | mg/L | 1 | 60.0 | 119 | 80 - 120 |
| Terphenyl-d14 | | 59.7 | mg/L | 1 | 60.0 | 100 | 80 - 120 |

**Standard (ICV-1)**

QC Batch: 63078 Date Analyzed: 2009-08-21 Analyzed By: JG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| pH | | s.u. | 7.00 | 6.99 | 100 | 98 - 102 | 2009-08-21 |

**Standard (CCV-1)**

QC Batch: 63078 Date Analyzed: 2009-08-21 Analyzed By: JG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| pH | | s.u. | 7.00 | 6.99 | 100 | 98 - 102 | 2009-08-21 |

**Standard (ICV-1)**

QC Batch: 63112 Date Analyzed: 2009-08-31 Analyzed By: AH

[15] Control analyte out of CCV control limits. Results biased high for analyte. •

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Kjeldahl Nitrogen - N | | mg/L | 5.00 | 4.93 | 99 | 85 - 115 | 2009-08-31 |

**Standard (CCV-1)**

QC Batch: 63112 Date Analyzed: 2009-08-31 Analyzed By: AH

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Kjeldahl Nitrogen - N | | mg/L | 5.00 | 5.04 | 101 | 85 - 115 | 2009-08-31 |

**Standard (ICV-1)**

QC Batch: 63168 Date Analyzed: 2009-08-28 Analyzed By: KV

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Nitrate and Nitrite as N | | mg/L | 0.200 | 0.184 | 92 | 85 - 115 | 2009-08-28 |

**Standard (CCV-1)**

QC Batch: 63168 Date Analyzed: 2009-08-28 Analyzed By: KV

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Nitrate and Nitrite as N | | mg/L | 0.200 | 0.191 | 96 | 85 - 115 | 2009-08-28 |

**Standard (ICV-1)**

QC Batch: 63220 Date Analyzed: 2009-09-03 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Dissolved Chromium | | mg/L | 1.00 | 1.04 | 104 | 90 - 110 | 2009-09-03 |

**Standard (CCV-1)**

QC Batch: 63220 Date Analyzed: 2009-09-03 Analyzed By: RR

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Dissolved Chromium | | mg/L | 1.00 | 1.01 | 101 | 90 - 110 | 2009-09-03 |

**Standard (ICV-1)**

QC Batch: 63228 Date Analyzed: 2009-09-01 Analyzed By: JG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Hydroxide Alkalinity | | mg/L as CaCo3 | 0.00 | <1.00 | | 90 - 110 | 2009-09-01 |
| Carbonate Alkalinity | | mg/L as CaCo3 | 0.00 | 236 | | 90 - 110 | 2009-09-01 |
| Bicarbonate Alkalinity | | mg/L as CaCo3 | 0.00 | 8.00 | | 90 - 110 | 2009-09-01 |
| Total Alkalinity | | mg/L as CaCo3 | 250 | 244 | 98 | 90 - 110 | 2009-09-01 |

**Standard (CCV-1)**

QC Batch: 63228 Date Analyzed: 2009-09-01 Analyzed By: JG

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Hydroxide Alkalinity | | mg/L as CaCo3 | 0.00 | <1.00 | | 90 - 110 | 2009-09-01 |
| Carbonate Alkalinity | | mg/L as CaCo3 | 0.00 | 240 | | 90 - 110 | 2009-09-01 |
| Bicarbonate Alkalinity | | mg/L as CaCo3 | 0.00 | 6.00 | | 90 - 110 | 2009-09-01 |
| Total Alkalinity | | mg/L as CaCo3 | 250 | 246 | 98 | 90 - 110 | 2009-09-01 |

**Standard (CCV-1)**

QC Batch: 63285 Date Analyzed: 2009-09-04 Analyzed By: KV

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | | mg/L | 50.0 | 53.0 | 106 | 80 - 120 | 2009-09-04 |

**Standard (CCV-2)**

QC Batch: 63285 Date Analyzed: 2009-09-04 Analyzed By: KV

| Param | Flag | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|---|---|---|---|---|---|---|---|
| Total Organic Carbon | | mg/L | 50.0 | 52.4 | 105 | 80 - 120 | 2009-09-04 |

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# CHAIN OF CUSTODY RECORD



PROJECT NO.

PROJECT NAME: HELSTF Construction Landfill Groundwater

SAMPLER'S SIGNATURE

| DATE | TIME | SAMPLE ID | MATRIX | LAB NO. | NO. OF CONTAINERS | VOC | DRO | GRO | TOC | SVOC | Explosives | TRPH | Org. Pesticides | Herbicides | Water Quality | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8-20-09 | 1254 | HLSF-3839-HMW-029-0809 | WATER | 207473 | 20 | X | X | X | X | X | X | X | X | X | X | NOTE: 24 HR HOLD TIME ON HEX. CHROME |

| PROJECT INFORMATION | SAMPLES RECEIVED | 1. RELINQUISHED BY: (SIGNATURE) | 2. RELINQUISHED BY: (SIGNATURE) | 3. RECEIVED BY LAB: (SIGNATURE) |
|---|---|---|---|---|
| PROJECT MANAGER: Brad Davis | TOTAL NO. OF CONTAINERS | (PRINTED NAME) GABRIEL GARCIA | (PRINTED NAME) | (PRINTED NAME) HOLLY TAYLOR |
| SHIPPING ID NO. | CHAIN OF CUSTODY SEALS | RECEIVED BY: (SIGNATURE) | RECEIVED BY: (SIGNATURE) | (COMPANY) TRACE |
| | GOOD CONDITION/COOLED By ice 15/6 | (TIME/DATE) 1610 8/20/09 | (TIME/DATE) 17:15 8-20-09 | (TIME/DATE) 10:37 8/22/09 4.9/5.4 °C ~~4.9/9.6~~ °C |
| VIA: Lab Courier | CONFORMS TO RECORD | SPECIAL INSTRUCTIONS/COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS | | CF 8-24-09 |

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# CHAIN OF CUSTODY RECORD



PROJECT NO.

PROJECT NAME: HELSTF Construction Landfill Groundwater

SAMPLER'S SIGNATURE

| DATE | TIME | SAMPLE ID | MATRIX | LAB NO. | NO. OF CONTAINERS | Total Cyanide | Nutrients | Total Metals | Diss. Metals | Diss. Ions | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8-20-09 | 1254 | HLSF-3839-HM00-029-0809 | WATER | 207473 | 20 | X | X | X | X | X | | | | | NOTE: 24 HR HOLD TIME ON HEX. CHROME |

| PROJECT INFORMATION | SAMPLES RECEIVED | 1. RELINQUISHED BY: (SIGNATURE) | 2. RELINQUISHED BY: (SIGNATURE) | 3. RECEIVED BY LAB: (SIGNATURE) |
|---|---|---|---|---|
| PROJECT MANAGER: Brad Davis | TOTAL NO. OF CONTAINERS: | (PRINTED NAME) GABRIEL SANTA | (PRINTED NAME) | (PRINTED NAME) Holly Taylor |
| SHIPPING ID NO. | CHAIN OF CUSTODY SEALS | RECEIVED BY: (SIGNATURE) | RECEIVED BY: (SIGNATURE) | (COMPANY) TRACE |
| | GOOD CONDITION/ALLIED | (TIME/DATE) 1610 8/20/09 | (TIME/DATE) 12:15 8-20-09 | (TIME/DATE) 10:37 8-22-09 4.9/5.4°C ~~4.9/5.6~~°C |
| VIA: Lab Courier | CONFORMS TO RECORD | SPECIAL INSTRUCTIONS/COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS | | CF 8-24-09 |

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