**CBS Corporation**

Environmental Remediation
PNC Center
20 Stanwix Street, 10th Floor
Pittsburgh, PA 15222

February 5, 2010

William P. Murray, P.E.
Environmental Engineer I
New York State Department of Environmental Conservation
Division of Hazardous Waste Remediation
Region 9
270 Michigan Avenue
Buffalo, NY 14203-2999

**Re: Monthly Operation and Maintenance Report**
**NYSDEC Site 9-15-066, Cheektowaga, New York**

Dear Mr. Murray:

On behalf of the Respondents to the Order on Consent and Settlement Agreement, Index No. B9-0381-91-8 (the "Order"), CBS Corporation (CBS) submits this monthly status report for operation and maintenance (O&M) activities at New York State Department of Environmental Conservation (NYSDEC) Site No. 9-15-066 in Cheektowaga, New York (the "Site"). Under an Agreement among the Respondents, CBS is managing the Remedial Program pursuant to the Order. This report covers activities during January 2010 and transmits the discharge monitoring report for this period.

## 1. Site Activities and Status

A. On January 6, 2010, CBS submitted to NYSDEC a monthly report on the status of O&M activities at the Site for December 2009. That status report also transmitted the discharge monitoring data for December 2009.

B. The recovery and treatment system operated throughout January 2010.

C. Conestoga-Rovers & Associates (CRA) conducted routine and non-routine O&M, and TestAmerica Laboratories, Inc. provided analytical laboratory services, as required.

**2. Sampling Results and Other Site Data**

A. In January 2010, the groundwater system recovered and treated an estimated 58,000 gallons.

B. Attachment A provides the discharge monitoring report for January 2010 based on the effluent sample collected on January 21, 2010. Attachment B provides the analytical laboratory report for this effluent sample.

C. In reviewing the treatment system effluent monitoring information, please note the following:

- Flow data are provided via periodic on-site readings. The maximum daily flow was calculated from these data.

- The pH data are provided via periodic on-site readings and laboratory analysis of the monthly effluent sample. Effluent pH data are reported only for measurements taken while the treatment pump is operating and the system is actively discharging.

- The reported daily maximum values (pounds per day) are calculated using the maximum observed daily flow and the results of the monthly effluent monitoring, irrespective of whether the actual maximum daily flow occurred on the day of sampling.

D. For the January 2010 reporting period, the effluent complied with all discharge limitations.

**3. Upcoming Activities**

A. CBS will continue required O&M activities.

B. With NYSDEC approval, CBS will complete the Phase 1 closure of the 002 system by filling and sealing manholes MH-002-09 and MH-002-10.

C. After closing MH-002-09, and MH-002-10, CRA will conduct additional water level measurements, surface water monitoring, and groundwater monitoring per the *Revised Work Plan* (Rev. 1, November 7, 2008).

**4. Operational Problems**

A. Previously reported operational problems associated with elevated pH, pH control, hardness, and inflow continue. These operational problems are expected to be largely resolved with the phased shutdown of the collection system and limitation of inflows to those associated with Sump 003.

B. The post-closure monitoring data indicate that the Phase 1 closure of the 001 groundwater collection system has effectively addressed the previously observed high water levels at Sump 001, which had led to periodic overtopping of that manhole. The ongoing periodic overtopping at Sump 002 will be addressed through the partial closure of that segment of the groundwater collection system.

C. The Phase 1 closure of the 002 system is also expected to reduce the conveyance of groundwater containing volatile organic compounds via storm sewers installed by the Niagara Frontier Transportation Authority as part of airport development.

* * * *

Please contact me if you have questions regarding this status report.

Very truly yours,

Leo M. Brausch
Consultant/Project Engineer

LMB:
Attachments

cc: K. P. Lynch, CRA
K. Minkel, NFTA

# ATTACHMENT A

# DISCHARGE MONITORING REPORT
# JANUARY 2010

**Discharge Monitoring Data**
**Outfall 001 - Treated Groundwater Remediation Discharge**
**NYSDEC Site No. 9-15-006**
**Cheektowaga, New York**

**Reporting Month & Year** **Jan-10**

| Parameter | | Daily Minimum | Daily Maximum | Units | Daily Maximum (lbs/day) | Measurement Frequency | Sample Type |
|---|---|---|---|---|---|---|---|
| Flow | Monitoring Result | | **2,680** | **gpd** | | **Continuous** | **Meter** |
| | Discharge Limitation | | 28,800 | gpd | | Continuous | Meter |
| pH | Monitoring Result | **7.17** | **8.50** | **s.u.** | | **5** | **Grab** |
| | Discharge Limitation | 6.5 | 8.5 | s.u. | | Weekly | Grab |
| Total suspended solids | Monitoring Result | | **< 4.0** | **mg/L** | **< 0.1** | **1** | **Grab** |
| | Discharge Limitation | | 20 | mg/L | | Monthly | Grab |
| Toluene | Monitoring Result | | **< 1.0** | **ug/L** | **< 0.00002** | **1** | **Grab** |
| | Discharge Limitation | | 5 | ug/L | | Monthly | Grab |
| Methylene chloride | Monitoring Result | | **< 1.0** | **ug/L** | **< 0.00003** | **1** | **Grab** |
| | Discharge Limitation | | 10 | ug/L | | Monthly | Grab |
| 1,2-dichlorobenzene | Monitoring Result | | **< 1.0** | **ug/L** | **< 0.00003** | **1** | **Grab** |
| | Discharge Limitation | | 5 | ug/L | | Monthly | Grab |
| cis-1,2-dichloroethylene | Monitoring Result | | **< 1.0** | **ug/L** | **< 0.00003** | **1** | **Grab** |
| | Discharge Limitation | | 10 | ug/L | | Monthly | Grab |
| Trichloroethylene | Monitoring Result | | **< 1.0** | **ug/L** | **< 0.00003** | **1** | **Grab** |
| | Discharge Limitation | | 10 | ug/L | | Monthly | Grab |
| Tetrachloroethylene | Monitoring Result | | **< 1.0** | **ug/L** | **< 0.00003** | **1** | **Grab** |
| | Discharge Limitation | | 50 | ug/L | | Monthly | Grab |
| Cadmium | Monitoring Result | | **< 0.15** | **ug/L** | **< 0.000003** | **1** | **Grab** |
| | Discharge Limitation | | 3 | ug/L | | Monthly | Grab |
| Chromium | Monitoring Result | | **0.67** | **ug/L** | **0.000015** | **1** | **Grab** |
| | Discharge Limitation | | 99 | ug/L | | Monthly | Grab |

# ATTACHMENT B

# ANALYTICAL LABORATORY REPORT
# JANUARY 2010 EFFLUENT SAMPLING

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

# ANALYTICAL REPORT

PROJECT NO. LEO BRAUSCH BUF

Leo Brausch Buffalo Airport

Lot #: C0A220633

Leo Brausch

Leo Brausch Consulting
131 Wedgewood Drive
Gibsonia, PA 15044

TESTAMERICA LABORATORIES, INC.

Carrie L. Gamber
Project Manager

January 29, 2010

301 Alpha Drive Pittsburgh, PA 15238 **tel** 412.963.7058 **fax** 412.963.2468 **www.testamericainc.com**

## NELAC REPORTING:

At the time of analysis the laboratory was in compliance with the current NELAC standards and held accreditation for all analyses performed unless noted by a qualifier. The labs accreditation numbers are listed below. The format and contents of the report meets all applicable NELAC standards except as noted in the narrative and shall not be reproduced except in full, without the written approval of the laboratory. The table below presents a summary of the certifications held by TestAmerica Pittsburgh. Our primary accreditation authority for the Non-potable water and Solid & Hazardous waste programs is Pennsylvania DEP. A more detailed parameter list is available upon request. Please ask your project manager for this information when required.

| Certifying State/Program | Certificate # | Program Types | TestAmerica |
|---|---|---|---|
| NFESC | NA | NAVY | X |
| US Dept of Agriculture | (#P330-07-00101) | Foreign Soil Import Permit | X |
| Arkansas | (#88-0690) | WW | X |
| | | HW | X |
| California – NELAC | 04224CA | WW | X |
| | | HW | X |
| Connecticut | (#PH-0688) | WW | X |
| | | HW | X |
| Florida – NELAC | (#E871008-04) | WW | X |
| | | HW | X |
| Illinois – NELAC | (#002064) | WW | X |
| | | HW | X |
| Kansas – NELAC | (#E-10350) | WW | X |
| | | HW | X |
| Louisiana – NELAC | (#04041) | WW | X |
| | | HW | X |
| New Hampshire – NELAC | (#203008) | WW | X |
| | | – | – |
| New Jersey – NELAC | (PA-005) | WW | X |
| | | HW | X |
| New York – NELAC | (#11182) | WW | X |
| | | HW | X |
| North Carolina | (#434) | WW | X |
| | | HW | X |
| Pennsylvania - NELAC | (#02-00416) | WW | X |
| | | HW | X |
| South Carolina | (#89014002) | WW | X |
| | | HW | X |
| Utah – NELAC | (STLP) | WW | X |
| | | HW | X |
| West Virginia | (#142) | WW | X |
| | | HW | X |
| Wisconsin | 998027800 | WW | X |
| | | HW | X |

The codes utilized for program types are described below:

HW Hazardous Waste certification
WW Non-potable Water and/or Wastewater certification
X Laboratory has some form of certification under the specific program. Many states certify laboratories for specific parameters or tests within a category. The information in the table indicates the lab is certified in a general category of testing. Please contact the laboratory if parameter specific certification information is required.

Updated: 2/5/2009 C:\Documents and Settings\derubeisn\My Documents\NELAC NARRATIVE Pttsburgh.doc

## CASE NARRATIVE

**Leo Brausch Consulting**

Lot # C0A220633

**Sample Receiving:**
TestAmerica's Pittsburgh laboratory received one sample on January 22, 2010. The cooler was received within the proper temperature range.

If project specific QC was not required for samples contained in this report, when batch QC was completed on these samples, anomalous results will be discussed below.

**GC/MS Volatiles:**
TestAmerica's North Canton laboratory performed the 624 analysis. All results are included in the report.

**Metals:**
There were no problems associated with the analysis.

**General Chemistry:**
pH is a field parameter. Laboratory pH analysis was completed at the request of the client.

C0A220633

# CHAIN OF CUSTODY RECORD

**CONESTOGA-ROVERS & ASSOCIATES**
2055 Niagra Falls Blvd
Niagra Falls, NY

**SHIPPED TO (Laboratory Name):** [redacted] Test America Pitts

**REFERENCE NUMBER:** 018036 Buffalo Airport

SAMPLER'S SIGNATURE: _____ PRINTED NAME: Chad Baller

| SEQ. No. | DATE | TIME | SAMPLE No. | SAMPLE TYPE | No. of Containers | 624 VOAs | PARAMETERS pH | 1155 Cl | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| | 1/21/10 | 9:00 | [redacted]009 EFF0110 | Water | 5 | 3 | 1 | 1 | |

TOTAL NUMBER OF CONTAINERS

HEALTH/CHEMICAL HAZARDS

| | | | |
|---|---|---|---|
| RELINQUISHED BY: ① | DATE: 1/21/10 TIME: 9:00 | RECEIVED BY: ① | DATE: TIME: |
| RELINQUISHED BY: ② | DATE: TIME: | RECEIVED BY: ② | DATE: TIME: |
| RELINQUISHED BY: ③ | DATE: TIME: | RECEIVED BY: ③ | DATE: 1/22/10 TIME: 1500 |

METHOD OF SHIPMENT: WAY BILL No.

White —Fully Executed Copy
Yellow —Receiving Laboratory Copy
Pink —Shipper Copy
Goldenrod —Sampler Copy

SAMPLE TEAM: _____

RECEIVED FOR LABORATORY BY: _____ DATE: _____ TIME: _____

Nº CRA 15353

1001 (D) APR 28/97(NF) REV. 0 (F-15)

# METHODS SUMMARY

**C0A220633**

| PARAMETER | ANALYTICAL METHOD | PREPARATION METHOD |
|---|---|---|
| pH (Electrometric) | SM20 4500-H+B | SM20 4500-H B |
| Purgeables | CFR136A 624 | SW846 5030B |
| Total Suspended Solids SM 2540 D | SM20 2540D | SM20 2540D |
| Trace Inductively Coupled Plasma (ICP) Metals | MCAWW 200.7 | MCAWW 200.7 |

**References:**

CFR136A "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SM20 "STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER", 20TH EDITION."

# SAMPLE SUMMARY

**C0A220633**

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|---|---|---|---|---|
| LTMTD | 001 | EFF0110 | 01/21/10 | 09:00 |

**NOTE(S):**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

**Leo Brausch Consulting**

**Client Sample ID: EFF0110**

**GC/MS Volatiles**

**Lot-Sample #...:** C0A220633-001 **Work Order #...:** LTMTD1AD **Matrix.....:** WATER
**Date Sampled...:** 01/21/10 **Date Received..:** 01/22/10 **MS Run #.....:** 0027249
**Prep Date.....:** 01/27/10 **Analysis Date..:** 01/27/10
**Prep Batch #...:** 0027356 **Analysis Time..:** 07:08
**Dilution Factor:** 1

**Method.....:** CFR136A 624

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | MDL |
|---|---|---|---|---|
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | 0.13 |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | 0.17 |
| Methylene chloride | ND | 1.0 | ug/L | 0.33 |
| Tetrachloroethene | ND | 1.0 | ug/L | 0.29 |
| Toluene | ND | 1.0 | ug/L | 0.13 |
| Trichloroethene | ND | 1.0 | ug/L | 0.17 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | (80 - 125) |
| Toluene-d8 | 89 | (84 - 110) |
| Bromofluorobenzene | 86 | (81 - 112) |

## METHOD BLANK REPORT

### GC/MS Volatiles

**Client Lot #...:** C0A220633 **Work Order #...:** LTVER1AA **Matrix.....:** WATER
**MB Lot-Sample #:** A0A270000-356
**Prep Date.....:** 01/26/10 **Analysis Time..:** 18:44
**Analysis Date..:** 01/26/10 **Prep Batch #...:** 0027356
**Dilution Factor:** 1

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD |
|---|---|---|---|---|
| Toluene | ND | 1.0 | ug/L | CFR136A 624 |
| Methylene chloride | ND | 1.0 | ug/L | CFR136A 624 |
| Tetrachloroethene | ND | 1.0 | ug/L | CFR136A 624 |
| Trichloroethene | ND | 1.0 | ug/L | CFR136A 624 |
| 1,2-Dichlorobenzene | ND | 1.0 | ug/L | CFR136A 624 |
| cis-1,2-Dichloroethene | ND | 1.0 | ug/L | CFR136A 624 |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| 1,2-Dichloroethane-d4 | 94 | (80 - 125) |
| Toluene-d8 | 94 | (84 - 110) |
| Bromofluorobenzene | 87 | (81 - 112) |

**NOTE(S):**

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

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** C0A220633 **Work Order #...:** LTVER1AC **Matrix.....:** WATER
**LCS Lot-Sample#:** A0A270000-356
**Prep Date.....:** 01/26/10 **Analysis Date..:** 01/26/10
**Prep Batch #...:** 0027356 **Analysis Time..:** 18:21
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| 1,2-Dichlorobenzene | 91 | (18 - 190) | CFR136A 624 |
| Methylene chloride | 111 | (10 - 221) | CFR136A 624 |
| Tetrachloroethene | 105 | (64 - 148) | CFR136A 624 |
| Toluene | 91 | (47 - 150) | CFR136A 624 |
| Trichloroethene | 105 | (71 - 157) | CFR136A 624 |
| Benzene | 99 | (37 - 151) | CFR136A 624 |
| Bromodichloromethane | 99 | (35 - 155) | CFR136A 624 |
| Bromoform | 80 | (45 - 169) | CFR136A 624 |
| Bromomethane | 92 | (10 - 242) | CFR136A 624 |
| Carbon tetrachloride | 111 | (70 - 140) | CFR136A 624 |
| Chlorobenzene | 92 | (37 - 160) | CFR136A 624 |
| Chloroethane | 91 | (14 - 230) | CFR136A 624 |
| 2-Chloroethyl vinyl ether | 96 | (10 - 305) | CFR136A 624 |
| Chloroform | 99 | (51 - 138) | CFR136A 624 |
| Chloromethane | 89 | (10 - 273) | CFR136A 624 |
| Dibromochloromethane | 86 | (53 - 149) | CFR136A 624 |
| 1,3-Dichlorobenzene | 89 | (59 - 156) | CFR136A 624 |
| 1,4-Dichlorobenzene | 86 | (18 - 190) | CFR136A 624 |
| 1,1-Dichloroethane | 98 | (59 - 155) | CFR136A 624 |
| 1,2-Dichloroethane | 93 | (49 - 155) | CFR136A 624 |
| 1,1-Dichloroethene | 121 | (10 - 234) | CFR136A 624 |
| trans-1,2-Dichloroethene | 102 | (54 - 156) | CFR136A 624 |
| 1,2-Dichloropropane | 96 | (10 - 210) | CFR136A 624 |
| cis-1,3-Dichloropropene | 87 | (10 - 227) | CFR136A 624 |
| trans-1,3-Dichloropropene | 72 | (17 - 183) | CFR136A 624 |
| Ethylbenzene | 89 | (37 - 162) | CFR136A 624 |
| 1,1,2,2-Tetrachloroethane | 85 | (46 - 157) | CFR136A 624 |
| 1,1,1-Trichloroethane | 103 | (52 - 162) | CFR136A 624 |
| 1,1,2-Trichloroethane | 92 | (52 - 150) | CFR136A 624 |
| Trichlorofluoromethane | 119 | (17 - 181) | CFR136A 624 |
| Vinyl chloride | 95 | (10 - 251) | CFR136A 624 |

(Continued on next page)

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Client Lot #...:** C0A220633 **Work Order #...:** LTVER1AC **Matrix.....:** WATER
**LCS Lot-Sample#:** A0A270000-356

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| 1,2-Dichloroethane-d4 | 88 | (80 - 125) |
| Toluene-d8 | 94 | (84 - 110) |
| Bromofluorobenzene | 89 | (81 - 112) |

**NOTE(S):**

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

Bold print denotes control parameters

**MATRIX SPIKE SAMPLE EVALUATION REPORT**

**GC/MS Volatiles**

**Lot-Sample #...:** C0A220633 **Work Order #...:** LTPKR1AC **Matrix.....:** WATER
**MS Lot-Sample #:** A0A250438-002
**Date Sampled...:** 01/25/10 **Date Received..:** 01/25/10
**Prep Date.....:** 01/27/10 **Analysis Date..:** 01/27/10
**Prep Batch #...:** 0027356 **MS Run #.....:** 0027249
**Dilution Factor:** 1

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD |
|---|---|---|---|
| **1,2-Dichlorobenzene** | **91** | **(90 - 115)** | **CFR136A 624** |
| **Methylene chloride** | **120** | **(78 - 131)** | **CFR136A 624** |
| **Tetrachloroethene** | **107** | **(81 - 112)** | **CFR136A 624** |
| **Toluene** | **93** | **(87 - 112)** | **CFR136A 624** |
| **Trichloroethene** | **116 a** | **(85 - 114)** | **CFR136A 624** |
| **Benzene** | **104** | **(90 - 114)** | **CFR136A 624** |
| **Bromodichloromethane** | **96** | **(78 - 123)** | **CFR136A 624** |
| **Bromoform** | **63** | **(40 - 141)** | **CFR136A 624** |
| **Bromomethane** | **95** | **(42 - 160)** | **CFR136A 624** |
| **Carbon tetrachloride** | **75** | **(61 - 129)** | **CFR136A 624** |
| **Chlorobenzene** | **94** | **(90 - 113)** | **CFR136A 624** |
| **Chloroethane** | **97** | **(56 - 133)** | **CFR136A 624** |
| **2-Chloroethyl vinyl ether** | **0.0 a** | **(10 - 185)** | **CFR136A 624** |
| **Chloroform** | **97** | **(90 - 118)** | **CFR136A 624** |
| **Chloromethane** | **98** | **(37 - 127)** | **CFR136A 624** |
| **Dibromochloromethane** | **75** | **(65 - 123)** | **CFR136A 624** |
| **1,3-Dichlorobenzene** | **87 a** | **(90 - 111)** | **CFR136A 624** |
| **1,4-Dichlorobenzene** | **81 a** | **(90 - 112)** | **CFR136A 624** |
| **1,1-Dichloroethane** | **105** | **(90 - 114)** | **CFR136A 624** |
| **1,2-Dichloroethane** | **101** | **(90 - 123)** | **CFR136A 624** |
| **1,1-Dichloroethene** | **129** | **(83 - 129)** | **CFR136A 624** |
| **trans-1,2-Dichloroethene** | **112** | **(85 - 116)** | **CFR136A 624** |
| **1,2-Dichloropropane** | **101** | **(87 - 119)** | **CFR136A 624** |
| **cis-1,3-Dichloropropene** | **78** | **(77 - 115)** | **CFR136A 624** |
| **trans-1,3-Dichloropropene** | **61 a** | **(71 - 114)** | **CFR136A 624** |
| **Ethylbenzene** | **88** | **(88 - 111)** | **CFR136A 624** |
| **1,1,2,2-Tetrachloroethane** | **78** | **(77 - 133)** | **CFR136A 624** |
| **1,1,1-Trichloroethane** | **93** | **(82 - 119)** | **CFR136A 624** |
| **1,1,2-Trichloroethane** | **97** | **(89 - 123)** | **CFR136A 624** |
| **Trichlorofluoromethane** | **115 a** | **(62 - 110)** | **CFR136A 624** |
| **Vinyl chloride** | **95** | **(50 - 119)** | **CFR136A 624** |

| SURROGATE | PERCENT RECOVERY | RECOVERY LIMITS |
|---|---|---|
| 1,2-Dichloroethane-d4 | 89 | (80 - 125) |
| Toluene-d8 | 91 | (84 - 110) |
| Bromofluorobenzene | 86 | (81 - 112) |

(Continued on next page)

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### GC/MS Volatiles

**Lot-Sample #...:** C0A220633 **Work Order #...:** LTPKR1AC **Matrix.....:** WATER
**MS Lot-Sample #:** A0A250438-002

**NOTE(S):**

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

**Leo Brausch Consulting**

**Client Sample ID: EFF0110**

**TOTAL Metals**

**Lot-Sample #...:** C0A220633-001 **Matrix.....:** WATER
**Date Sampled...:** 01/21/10 **Date Received..:** 01/22/10

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **Prep Batch #...:** 0025192 | | | | | | |
| Cadmium | ND | 5.0 | ug/L | MCAWW 200.7 | 01/25-01/28/10 | LTMTD1AA |
| | | Dilution Factor: 1 | | Analysis Time..: 13:56 | MS Run #.....: 0025099 | |
| | | MDL.....: 0.15 | | | | |
| **Chromium** | **0.67 B** | **5.0** | **ug/L** | **MCAWW 200.7** | **01/25-01/28/10** | **LTMTD1AC** |
| | | Dilution Factor: 1 | | Analysis Time..: 13:56 | MS Run #.....: 0025099 | |
| | | MDL.....: 0.51 | | | | |

**NOTE(S):**

B Estimated result. Result is less than RL.

## METHOD BLANK REPORT

## TOTAL Metals

**Client Lot #...:** C0A220633 **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|
| **MB Lot-Sample #:** C0A250000-192 **Prep Batch #...:** 0025192 | | | | | | |
| Cadmium | ND | 5.0 | ug/L | MCAWW 200.7 | 01/25-01/28/10 | LTN7Q1AU |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time..: 13:23 | | | | |
| Chromium | ND | 5.0 | ug/L | MCAWW 200.7 | 01/25-01/28/10 | LTN7Q1AD |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time..: 13:23 | | | | |

**NOTE(S):**

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

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### TOTAL Metals

**Client Lot #...:** C0A220633 **Matrix.....:** WATER

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|
| **LCS Lot-Sample#:** C0A250000-192 **Prep Batch #...:** 0025192 | | | | | |
| Chromium | 103 | (85 - 115) | MCAWW 200.7 | 01/25-01/28/10 | LTN7Q1AM |
| | | Dilution Factor: 1 | Analysis Time..: 13:28 | | |
| Cadmium | 104 | (85 - 115) | MCAWW 200.7 | 01/25-01/28/10 | LTN7Q1AV |
| | | Dilution Factor: 1 | Analysis Time..: 13:28 | | |

**NOTE(S):**

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

## MATRIX SPIKE SAMPLE EVALUATION REPORT

### TOTAL Metals

**Client Lot #...:** C0A220633 **Matrix.....:** WATER
**Date Sampled...:** 01/22/10 **Date Received..:** 01/22/10

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD | RPD LIMITS | METHOD | PREPARATION-ANALYSIS DATE | WORK ORDER # |
|---|---|---|---|---|---|---|---|
| **MS Lot-Sample #:** C0A220426-001 **Prep Batch #...:** 0025192 | | | | | | | |
| Cadmium | 102 | (70 - 130) | | | MCAWW 200.7 | 01/25-01/28/10 | LTK7E1CE |
| | 103 | (70 - 130) | 0.50 | (0-20) | MCAWW 200.7 | 01/25-01/28/10 | LTK7E1CF |
| | | Dilution Factor: 1 | | | | | |
| | | Analysis Time..: 13:45 | | | | | |
| | | MS Run #.....: 0025099 | | | | | |
| Chromium | 102 | (70 - 130) | | | MCAWW 200.7 | 01/25-01/28/10 | LTK7E1A0 |
| | 103 | (70 - 130) | 0.75 | (0-20) | MCAWW 200.7 | 01/25-01/28/10 | LTK7E1A1 |
| | | Dilution Factor: 1 | | | | | |
| | | Analysis Time..: 13:45 | | | | | |
| | | MS Run #.....: 0025099 | | | | | |

**NOTE(S):**

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

**Leo Brausch Consulting**

**Client Sample ID: EFF0110**

**General Chemistry**

**Lot-Sample #...:** C0A220633-001 **Work Order #...:** LTMTD **Matrix.....:** WATER
**Date Sampled...:** 01/21/10 **Date Received..:** 01/22/10

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| **pH** | **8.5** | -- | -- | **SM20 4500-H+B** | **01/23/10** | **0023093** |
| | | Dilution Factor: 1 | | Analysis Time..: 14:04 | MS Run #.....: 0023075 | |
| | | MDL.....: 0.0 | | | | |
| Total Suspended Solids | ND | 4.0 | mg/L | SM20 2540D | 01/24/10 | 0024012 |
| | | Dilution Factor: 1 | | Analysis Time..: 15:02 | MS Run #.....: 0024004 | |
| | | MDL.....: 2.0 | | | | |

**METHOD BLANK REPORT**

**General Chemistry**

**Client Lot #...:** C0A220633 **Matrix.....:** WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|
| Total Suspended Solids | | Work Order #: LTNTK1AA | | MB Lot-Sample #: | C0A240000-012 | |
| | ND | 4.0 | mg/L | SM20 2540D | 01/24/10 | 0024012 |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time..: 15:02 | | | | |

**NOTE(S):**

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

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

### General Chemistry

**Client Lot #...:** C0A220633 **Matrix.....:** WATER

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|
| pH | | Work Order #: LTNC41AA | LCS Lot-Sample#: C0A230000-093 | | |
| | 100 | (99 - 101) | SM20 4500-H+B | 01/23/10 | 0023093 |
| | | Dilution Factor: 1 | Analysis Time..: 14:02 | | |
| Total Suspended Solids | | Work Order #: LTNTK1AC | LCS Lot-Sample#: C0A240000-012 | | |
| | 97 | (80 - 120) | SM20 2540D | 01/24/10 | 0024012 |
| | | Dilution Factor: 1 | Analysis Time..: 15:02 | | |

**NOTE(S):**

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

**SAMPLE DUPLICATE EVALUATION REPORT**

**General Chemistry**

**Client Lot #...:** C0A220633 **Work Order #...:** LTMTD-SMP LTMTD-DUP **Matrix.....:** WATER

**Date Sampled...:** 01/21/10 **Date Received..:** 01/22/10

| PARAM | RESULT | DUPLICATE RESULT | UNITS | RPD | RPD LIMIT | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|---|---|---|---|---|---|---|---|---|
| Total Suspended Solids | | | | | | SD Lot-Sample #: C0A220633-001 | | |
| | ND | ND | mg/L | 0 | (0-20) | SM20 2540D | 01/24/10 | 0024012 |
| | | | Dilution Factor: 1 | | | Analysis Time..: 15:02 | MS Run Number..: 0024004 | |
| pH | | | | | | SD Lot-Sample #: C0A220633-001 | | |
| | 8.5 | 8.6 | -- | 0.47 | (0-2.0) | SM20 4500-H+B | 01/23/10 | 0023093 |
| | | | Dilution Factor: 1 | | | Analysis Time..: 14:04 | MS Run Number..: 0023075 | |