report, 2008-04-15, semi-annual

**Metalico Aluminum Recovery, Inc.**
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APR 16 2008
Bureau of Hazardous Waste & Radiation Management
Division of Solid & Hazardous Materials

April 15, 2008

**OVERNIGHT DELIVERY**

Stephen C. Condon, Senior Engineering Geologist
New York State Department of Environmental Conservation
Bureau of Hazardous Waste & Radiation Management, 9th Floor
Division of Solid & Hazardous Materials
625 Broadway
Albany, New York 12233-7258

Re: *Former Roth Bros. Smelting Corp. Site, 6223 Thompson Road, DeWitt, New York - Consent Order C7-0001-94-10*

Dear Mr. Condon:

Enclosed please find a copy of the CAMU Groundwater Performance Monitoring Report for the December 2007 semi-annual monitoring event.

Sincerely yours,

Dennis Flanagan
Director of Operations
Metalico Aluminum Recovery, Inc.

cc: Mary Jane Peachey, NYSDEC Region 7 (w/enclosure)
Margaret Sheen, Esq. (w/enclosure)
Wabash Alloys, L.L.C. (c/o Doreen Simmons, Esq.) (w/enclosure)
Thompson Corners, LLC (c/o Philip Gitlen, Esq.) (w/enclosure)
C. Mark Hanna, Hazard Evaluations, Inc.(w/o enclosure)
Anthony Scala, Upstate Laboratories, Inc. (w/o enclosure)

# GROUNDWATER PERFORMANCE MONITORING REPORT

## December 2007 Sampling Event

## CORRECTIVE ACTION MANAGEMENT UNIT (CAMU)

Prepared For:
**Metalico Aluminum Recovery, Inc.**
6223 Thompson Road
East Syracuse, New York

Prepared By:
**Hazard Evaluations, Inc.**
3836 North Buffalo Road
Orchard Park, New York

April 2008

HAZARD EVALUATIONS

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## 1.0 INTRODUCTION

This document provides a summary of the Corrective Action Management Unit (CAMU) groundwater monitoring conducted at the former Wabash Aluminum Alloys, LLC (Wabash) facility located at 6223 Thompson Road, East Syracuse, Onondaga County, New York (Site) for the December 2007 semi-annual groundwater sampling event. The Plant #2 portion of the Site is now owned by Metalico Syracuse Realty, Inc. (MSR), and Thompson Corners, LLC owns the Plant # 1 portion of the Site.

Metalico Aluminum Recovery, Inc. (MARI) currently operates a scrap metal recycling facility and a secondary aluminum smelting operation at the MSR portion of the Site, and by agreement with Wabash assumed "Wabash's obligations to conduct ongoing environmental monitoring and testing at the Site." To satisfy this contractual obligation, MARI retained Upstate Laboratories, Inc. (ULI) to perform the on-site sampling and laboratory analysis and Hazard Evaluations, Inc. (HEI) to perform the reporting aspects of this sampling event.

This report is submitted consistent with the Operations and Maintenance (O&M) Plan for the CAMU, which was submitted by Roth Brothers Smelting, Inc. and approved by the New York State Department of Environmental Conservation (NYSDEC) in June 1997. Several revisions to the Sampling and Analysis Plan (SAP) [Appendix D to the Operations and Maintenance Plan] were incorporated in 2002 at the request of the NYSDEC.

Figure 1 (Attachment 1) presents a depiction of the Plant #1 and Plant #2 properties. The asphalt-paved CAMU area is located north of Plant #2. The locations of all site monitoring wells, including the wells associated with the CAMU groundwater performance monitoring, are included on Figure 1.

Groundwater sampling was performed on a quarterly basis prior to June 2005, after which semi-annual monitoring commenced. This report addresses the data generated from the December 2007 groundwater monitoring. It should be noted that in accordance with NYSDEC authorization, this monitoring event functionally replaced the ASP Deliverable monitoring event that was scheduled for June 2007.

## 2.0 CAMU GROUNDWATER PERFORMANCE MONITORING

### 2.1 Monitoring Well Inspection

The following monitoring wells are sampled as part of the CAMU Groundwater Monitoring Performance Program (see Figure 1):

| | | | | |
|---|---|---|---|---|
| B291 | B281 | B290 | B107 | B108 |
| B401 | B402R | B403 | B404 | MW-8R |



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During each monitoring event, the initial activity is to conduct a field inspection of the existing wells. Over the course of time, several CAMU monitoring wells were inadvertently damaged, destroyed or otherwise needed maintenance, including:

- Monitoring well B280, formerly located north of the CAMU, was destroyed in September 2000. Based on its adjacent location, monitoring well B291 replaced monitoring well B280.

- Between the June 2004 and September 2004 sampling events, monitoring well B402 was destroyed. Monitoring well B402R was installed in November 2005 and began to be sampled for the December 2005 sampling event. The destroyed well (B402) was properly decommissioned using a rotary drilling rig on April 24, 2007.

- Monitoring well MW-8, installed as part of the 2001 Groundwater Investigation, was destroyed during construction of scrap yard improvements. Subsequently, monitoring well MW-8R was installed adjacent to the MW-8 location for inclusion in the CAMU Groundwater Performance Monitoring Program. The wellhead for monitoring well MW-8R was replaced on April 24, 2007 due to deterioration.

- On April 24, 2007, the area surrounding well B291 was cleared of vegetation, and the existing damaged flush-mounted well cover was removed and replaced with a stick-up-type protective casing installed in a concrete base. The wellhead was vertically surveyed relative to well B402R, with the new reference elevation being calculated at 410.86. A new, lockable well plug was installed in the well opening.

It should be noted that CAMU Groundwater Performance Monitoring Well B107 was not sampled in December 2007 because it could not be located during the sampling event.

## 2.2 Groundwater Gauging and Sampling

This section sets forth the field and laboratory protocols followed during this groundwater sampling event. Table 1 (Attachment 2) provides a summary of the current sampling frequency and the analytical parameters required for each monitoring well as part of the CAMU groundwater monitoring program that began in 1998.

**Groundwater Gauging** - Prior to the sampling of the groundwater monitoring wells, the static water level of each monitoring well was gauged using an electronic water level sensor capable of measuring to an accuracy of +/- 0.01 foot. The water level probe was decontaminated between wells by washing in an Alconox/water solution and rinsing with distilled water.

**Groundwater Contour Maps** - Figure 2 depicts the groundwater contours developed from the groundwater surface elevations measured during the December 2007 sampling event. The summary groundwater surface elevation data (Table 2)

indicates that overall, the groundwater levels have increased since the July 2007 sampling event. Based on review of groundwater surface elevation data from this sampling event, as well as historic data, these contours generally represent typical seasonal groundwater flow patterns for the Site. Figure 2 indicates that the general groundwater flow direction at the Site is to the northeast toward the South Branch of Ley Creek.

**Groundwater Sampling & Analysis** - Each monitoring well was purged prior to sampling. Water surface elevations and groundwater indicator parameters (pH and Specific Conductance) were measured after purging and following recharge. Consistent with the 2002 revisions to the SAP, purging of monitoring wells was conducted using a low-flow peristaltic pump with dedicated tubing at each location. Purging continued until a minimum of three well volumes were removed or until the well went dry. It should be noted that the December 2007 sampling event was performed on December 31, 2007.

Groundwater samples were collected after purging and recharge using new disposable bailers. After collection, the samples were placed into clean containers by field technicians working for Upstate Laboratories, Inc. (Upstate). Upstate, which is certified by the New York State Department of Health for the analyses required, also completed the laboratory analyses for the project. Samples were packed on ice and kept at 4°C or less until delivered to the laboratory. Attachment 3 includes the laboratory data sheets for all laboratory analyses associated with the recent groundwater sampling and the field logs.

All PCBs analyses were conducted utilizing USEPA Method 8082, with an MDL of 1.0 ug/l (ppb) for this sampling event. Table 3 provides the summary analytical data for PCBs and Total and Dissolved Lead for the monitoring wells included in this program, as well as the field obtained pH and Specific Conductivity data. Table 4 provides the data for Total and Dissolved Barium and Arsenic.

### 2.3 Third Party Validation

It should be noted that this sampling event, rather than the June 2007 event, was performed using the ASP Category "B" protocol as approved by the NYSDEC and a copy of the Data Usability Summary Report is included as Attachment 4. The results of the Data Usability Summary Report indicate that the laboratory analytical data is considered "usable". In that regard, the wells and monitoring parameters that were required for the June 2007 event were also performed for this event. The next ASP Category "B" sampling event will be performed in June 2012.

## 3.0 GROUNDWATER MONITORING RESULTS

This section provides a summary of field data and analytical results from the CAMU Groundwater Performance Monitoring Program for the December 2007 sampling event, along with conclusions regarding groundwater quality. Data in Tables 3 and 4 are highlighted, as appropriate, to indicate detected concentrations that exceed the following NYSDEC Class GA Groundwater Standards:



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| Parameter | Class GA Standard |
|---|---|
| pH | NA |
| Lead | 0.025 mg/l |
| Arsenic | 0.025 mg/l |
| Barium | 1.00 mg/l |
| Aroclor 1016 | 0.09 ug/l* |
| Aroclor 1221 | 0.09 ug/l* |
| Aroclor 1232 | 0.09 ug/l* |
| Aroclor 1242 | 0.09 ug/l* |
| Aroclor 1248 | 0.09 ug/l* |
| Aroclor 1254 | 0.09 ug/l* |
| Aroclor 1260 | 0.09 ug/l* |

Notes: NA = No Class GA Standard for this parameter.
* = The PCB limit applies to the total for all Aroclors

For pH, the parameter that does not have a Class GA Standard, the surface water discharge limits from MARI's SPDES permit (6.5-8.5 S.U.) are referenced for discussion. The following sections summarize the analytical data collected during the December 2007 CAMU Groundwater Performance Monitoring:

**pH** – Two monitoring wells, B281 and B403, exhibited pH measurements outside the range utilized for comparison (6.5-8.5 S.U.) during the December 2007 sampling event with measurements of **8.71 S.U.** and **8.61 S.U.** being obtained, respectively.

**PCBs** – Monitoring well MW-8R exhibited levels of Aroclor 1254 that exceeded the Class GA Groundwater Standard (0.09 ug/l) with a concentration of **0.7 ug/l** being detected for the December 2007 sampling event. None of the other CAMU Groundwater Performance Monitoring Wells exhibited detectable concentrations of any PCB Aroclors during the December 2007 sampling event.

**Total and Dissolved Lead** – Monitoring well B402R exhibited a Total Lead concentration of **0.0423 mg/l** for the December 2007 sampling event, which exceeds the Class GA Groundwater Standard for lead of 0.025 mg/l. None of the other CAMU Groundwater Performance Monitoring wells exhibited Total Lead concentrations exceeding the Class GA Groundwater Standard during the December 2007 sampling event. None of the CAMU Groundwater Performance Monitoring wells exhibited Dissolved Lead concentrations exceeding the Class GA Groundwater Standard for lead during the December 2007 sampling event.

**Total and Dissolved Barium** – Monitoring well B108 exhibited a Total Barium concentration of **1.34 mg/l** for the December 2007 sampling event, which exceeds the Class GA Groundwater Standard (1.0 mg/l). None of the other CAMU Groundwater Performance Monitoring wells exhibited Total Barium concentrations exceed the Class GA Groundwater Standard during the December 2007 sampling event. None of the CAMU Groundwater Performance Monitoring wells exhibited Dissolved Barium concentrations exceeding the Class GA Groundwater Standard



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during the December 2007 sampling event. Table 4 represents the historic CAMU Groundwater Performance Monitoring well analytical results for Total and Dissolved Barium.

**Total and Dissolved Arsenic** – Monitoring well B281 exhibited a Total Arsenic concentration of **0.0642 mg/l** for the December 2007 sampling event, which exceeds the Class GA Groundwater Standard (0.025 mg/l). None of the other CAMU Groundwater Performance Monitoring wells exhibited Total Arsenic concentrations exceeding the Class GA Groundwater Standard during the December 2007 sampling event. None of the CAMU Groundwater Performance Monitoring wells exhibited Dissolved Arsenic concentrations exceeding the Class GA Groundwater Standard during the December 2007 sampling events. Table 4 presents the historic CAMU Groundwater Performance Monitoring analytical results for Total or Dissolved Arsenic.

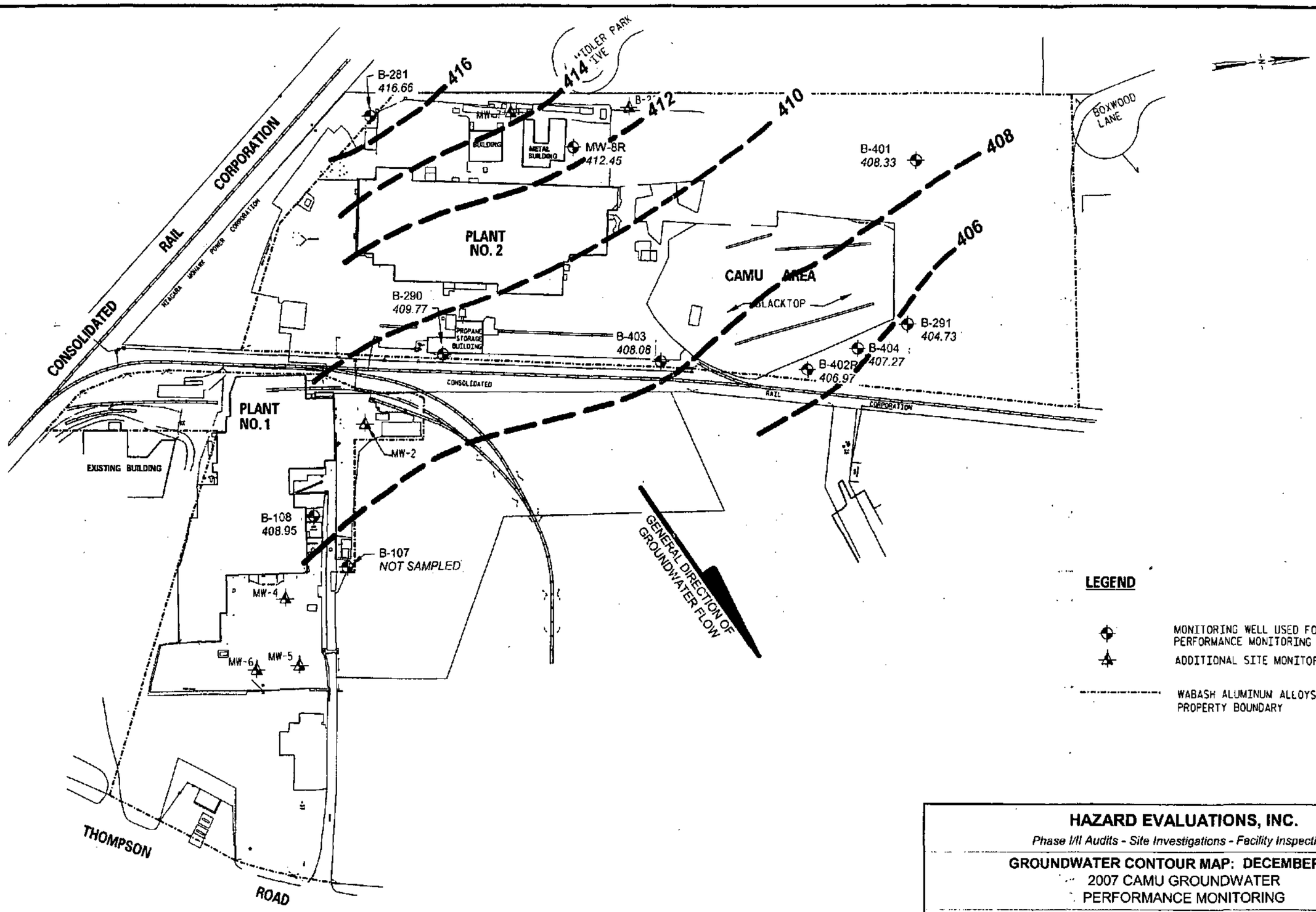
## 4.0 CONCLUSIONS

Although there were detections of parameters during the December 2007 groundwater monitoring at levels above applicable groundwater quality standards, the detected concentrations of the target parameters were generally consistent with those exhibited in preceding years. As in the past, a great deal of variability was observed in the data, with some parameters increasing and some parameters decreasing. No clear trend was noted for this monitoring period, but the following comparisons are noteworthy:

- The December 2007 pH measurements for wells B281 and B403 were both at the highest levels recorded to date, although well B403 was similar to June 2007.
- In December 2007, Aroclor 1254 in well MW-8R was at a lower level than the last three monitoring events, and was at the second lowest level since 2004.
- The December 2007 Total Lead concentration in well B402R was at a level lower than the last two monitoring events. The Lead levels in this well have been above its groundwater quality standard during four of five monitoring events since 2005.
- The December 2007 concentration of Total Barium in well B108 was similar to the June 2007 sampling event, and higher than for all events before that.
- The December 2007 Total Arsenic level in well B281 was of the same magnitude as previous results, which have sporadically exceeded its groundwater quality standard since 2002.

**Attachment 1**

**Figures**




**LEGEND**

- MONITORING WELL USED FOR GROUNDWATER PERFORMANCE MONITORING
- ADDITIONAL SITE MONITORING WELL
- WABASH ALUMINUM ALLOYS,LCC PROPERTY BOUNDARY

BASE DRAWING TAKEN FROM: '2005 GROUNDWATER PERFORMANCE MONITORING REPORT, CORRECTIVE ACTION MANAGEMENT UNIT, WABASH ALUMINUM ALLOYS, LLC, EAST SYRACUSE, NEW YORK': PREPARED BY C & S ENGINEERS, INC., FIGURE 1, DATED AUGUST 2006, FILE NO. 868.009.001.

**HAZARD EVALUATIONS, INC.**

*Phase I/II Audits - Site Investigations - Facility Inspections*

**GROUNDWATER CONTOUR MAP: DECEMBER 2007**
2007 CAMU GROUNDWATER
PERFORMANCE MONITORING

**METALICO ALUMINUM RECOVERY, INC.**
**SYRACUSE, NEW YORK**

| | | |
|---|---|---|
| DRAWN BY: DLW | SCALE: NOT TO SCALE | PROJECT: 19216 |
| CHECKED BY: SAO | DATE: 3/08 | DRAWING NO: 1 |

# Attachment 2

# Tables

## Table 1
## Metalico Aluminum Recovery, Inc.; Syracuse Facility
## Corrective Action Management Unit (CAMU)
## Groundwater Performance Monitoring Schedule

| Sampling Frequency | Parameter | Analytical Method | MDL | Well Locations | Required QA/QC Samples |
|---|---|---|---|---|---|
| Annually (June) | Arsenic (Total & Dissolved) | EPA Method 6010 | 4 µg/l | B281<br>B291 | 1 MS<br>1 FB<br>1 D<br>1 EB |
| | Barium (Total & Dissolved) | EPA Method 6010 | 2 µg/l | B107<br>B108<br>B281 | 1 MS<br>1 FB<br>1 D<br>1 EB |
| Semi-Annual (June & December) | Lead (Total & Dissolved) | EPA Method 6010 | 300 µg/l | B281<br>B290<br>B291<br>B401<br>B402R<br>B403<br>B404<br>MW-8R | 1 MS<br>1 FB<br>1 D<br>1 EB |
| | PCB's | EPA Method 8082 | 0.05 µg/l | B281<br>B290<br>B291<br>B401<br>B402R<br>B403<br>B404<br>MW-8R | 1 MS<br>1 MSD<br>1 D |

Notes:
1) Locations of monitoring wells are provided on Figure 1.
2) MDL = Method Detection Limit
3) QA/QC Sample Designations;
   D = Duplicate
   MS = Matrix Spike
   MSD = Matrix Spike Duplicate
   EB = Equipment Blank
   FB = Filter Blank
4) QA/QC samples collected only when Category B Deliverables are required, with the exception of the Duplicate sample, which is collected for each sampling event. (Category B Deliverables are required every five years as follows - June 2007, June 2012, etc.)

**Table 2**
**Metalico Aluminum Recovery, Inc.; Syracuse Facility**
**Corrective Action Management Unit (CAMU)**
**Groundwater Performance Monitoring**
**Groundwater Elevation Summary Table**

| Monitoring Well | Reference Elevation | Groundwater Elevations for three most recent monitoring events. | | |
|---|---|---|---|---|
| | | 12-19-06 | 6-29-07 | 12-31-07 |
| B107 | 410.61 | NS | 408.67 | NS |
| B108 | 411.80 | NS | 408.95 | 408.95 |
| B281 | 423.39 | 420.25 | 416.44 | 416.66 |
| B290 | 414.61 | 409.57 | 410.38 | 409.77 |
| B291 | 410.86* | 404.43 | 401.96 | 404.73 |
| B401 | 413.54 | 407.30 | 404.83 | 408.33 |
| B402R | 409.44 | 405.47 | 405.32 | 406.97 |
| B403 | 411.05 | 408.01 | 407.20 | 408.08 |
| B404 | 410.77 | 406.76 | 404.27 | 407.27 |
| MW-8R | 415.30 | 412.00 | 411.93 | 412.45 |

Notes: 1) NS = Not Sampled
2) * New reference elevation as of 4/24/07 wellhead modification.

**Table 3**
**Metalico Aluminum Recovery, Inc.; Syracuse Facility**
**Corrective Action Management Unit (CAMU)**
**Groundwater Performance Monitoring**
**Historical Laboratory Analytical Summary Table - (Monitoring Well B107)**

| | | Total Lead | Dissolved Lead | pH | Specific Conduct. | Aroclors | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1016 | 1221 | 1232 | 1242 | 1248 | 1254 | 1260 |
| Units | | mg/l | mg/l | s.u. | us/cm | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| Class GA Standard | | 0.025 | 0.025 | 6.5-8.5 | NA | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* |
| B107 | Jun-00 | | | 7.46 | 1,046 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.10 |
| | Jul-00 | | | 7.57 | 916 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.086 | <0.05 |
| | Aug-00 | | | 7.81 | 920 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-00 | | | 7.34 | 980 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Oct-00 | | | 7.68 | 834 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Nov-00 | | | 7.87 | 640 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Feb-01 | | | 7.71 | 608 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Apr-01 | | | 7.82 | 960 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | May-01 | | | 7.63 | 1,107 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-02 | | | 7.44 | 947 | | | | | | | |
| | Dec-03 | | | 8.62 | 644 | | | | | | | |
| | Mar-04 | | | 7.81 | 543 | | | | | | | |
| | Jun-05 | | | 7.65 | 623 | | | | | | | |
| | Jun-07 | | | 7.68 | 482 | | | | | | | |
| | Dec-07 | | | NS | NS | | | | | | | |

Notes: 1) * Applies to the sum of these substances.
2) Shaded results denote that concentration above Class GA Groundwater Quality Standards.
3) NS = Well could not be located, Not Sampled

**Table 3**
**Metalico Aluminum Recovery, Inc.; Syracuse Facility**
**Corrective Action Management Unit (CAMU)**
**Groundwater Performance Monitoring**
**Historical Laboratory Analytical Summary Table - (Monitoring Well B108)**

| | | Total Lead | Dissolved Lead | pH | Specific Conduct. | Aroclors | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1016 | 1221 | 1232 | 1242 | 1248 | 1254 | 1260 |
| Units | | mg/l | mg/l | s.u. | us/cm | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| Class GA Standard | | 0.025 | 0.025 | 6.5-8.5 | NA | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* |
| B108 | Jul-00 | | | 7.21 | 2,620 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Aug-00 | | | 7.33 | 2,750 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-00 | 0.002 | 0.001 | 7.27 | 2,510 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Oct-00 | | | 7.26 | 2,520 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Nov-00 | | | 7.00 | 2,210 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-00 | 0.004 | <0.001 | 7.22 | 2,180 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jan-01 | | | 7.19 | 2,176 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Feb-01 | | | 7.74 | 2,110 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-01 | <0.001 | <0.001 | 7.01 | 2,100 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Apr-01 | | | 6.98 | 2,350 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | May-01 | | | 7.01 | 1,680 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-02 | | | 7.08 | 254 | | | | | | | |
| | Dec-03 | | | 8.52 | 1,663 | | | | | | | |
| | Mar-04 | | | 7.55 | 1,546 | | | | | | | |
| | Jun-05 | | | 7.44 | 1,919 | | | | | | | |
| | Jun-07 | | | 7.22 | 1,012 | | | | | | | |
| | Dec-07 | | | 8.21 | 394 | | | | | | | |

Notes: 1) * Applies to the sum of these substances.
2) Shaded results denote that concentration above Class GA Groundwater Quality Standards.

## Table 3
## Metalico Aluminum Recovery, Inc.; Syracuse Facility
## Corrective Action Management Unit (CAMU)
## Groundwater Performance Monitoring
## Historical Laboratory Analytical Summary Table - (Monitoring Well B280)

| | | Total Lead | Dissolved Lead | pH | Specific Conduct. | Aroclors | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1016 | 1221 | 1232 | 1242 | 1248 | 1254 | 1260 |
| Units | | mg/l | mg/l | s.u. | us/cm | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| Class GA Standard | | 0.025 | 0.025 | 6.5-8.5 | NA | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* |
| B280** | Jul-00 | 0.0036 | <0.002 | 7.06 | 801 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Aug-00 | 0.089 | <0.01 | 6.24 | 893 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | Sep-00 | 0.002 | 0.002 | 6.86 | 1,056 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

Notes: 1) * Applies to the sum of these substances.
2) ** Monitoring well B291 replaced monitoring well B280 in this program in September 2000.
3) Shaded results denote that concentration above Class GA Groundwater Quality Standards.

## Table 3
## Metalico Aluminum Recovery, Inc.; Syracuse Facility
## Corrective Action Management Unit (CAMU)
## Groundwater Performance Monitoring
## Historical Laboratory Analytical Summary Table - (Monitoring Well B281)

| | | Total Lead | Dissolved Lead | pH | Specific Conduct. | Aroclors | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1016 | 1221 | 1232 | 1242 | 1248 | 1254 | 1260 |
| Units | | mg/l | mg/l | s.u. | us/cm | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| Class GA Standard | | 0.025 | 0.025 | 6.5-8.5 | NA | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* |
| B281 | Jun-98 | <0.002 | <0.002 | 6.53 | 2,690 | | | | | | | |
| | 1999 | <0.01 | <0.01 | 7.47 | 3,120 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| | Jun-00 | <0.001 | <0.001 | 6.72 | 2,630 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-00 | <0.001 | <0.001 | 7.02 | 2,560 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-00 | <0.001 | <0.001 | 7.28 | 1,956 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-01 | <0.001 | <0.001 | 7.24 | 2,020 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-02 | <0.001 | <0.001 | | | | | | | | | |
| | Sep-02 | <0.001 | <0.001 | 6.86 | 3,000 | | | | | | | |
| | Dec-02 | <0.001 | | 7.03 | 2,060 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-03 | <0.001 | <0.001 | 7.27 | 1,063 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-03 | 0.001 | <0.001 | 7.32 | 3,010 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-03 | <0.01 | <0.001 | 7.29 | 3,170 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-03 | 0.002 | 0.001 | 7.27 | 2,170 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-04 | <0.001 | <0.001 | 7.18 | 2,230 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-04 | <0.001 | 0.001 | 7.47 | 2,940 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-04 | <0.001 | <0.001 | 7.03 | 2,990 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-04 | 0.004 | <0.001 | 7.39 | 1,969 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-05 | <0.001 | <0.001 | 7.48 | 3,000 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-05 | <0.001 | <0.001 | 7.33 | 2,170 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

Notes: 1) * Applies to the sum of these substances.
2) Shaded results denote that concentration above Class GA Groundwater Quality Standards.

**Table 3 - continued**
**Metalico Aluminum Recovery, Inc.; Syracuse Facility**
**Corrective Action Management Unit (CAMU)**
**Groundwater Performance Monitoring**
**Historical Laboratory Analytical Summary Table - (Monitoring Well B281)**

| | | Total Lead | Dissolved Lead | pH | Specific Conduct. | Aroclors | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1016 | 1221 | 1232 | 1242 | 1248 | 1254 | 1260 |
| Units | | mg/l | mg/l | s.u. | us/cm | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| Class GA Standard | | 0.025 | 0.025 | 6.5-8.5 | NA | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* |
| B281 | Dec-05 | 0.001 | <0.001 | 7.19 | 2,430 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-06 | 0.009 | <0.003 | 7.46 | 2,780 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-06 | <0.003 | 0.024 | 7.17 | 2,430 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-07 | <0.003 | <0.003 | 7.32 | 778 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-07 | <0.003 | <0.003 | 8.71 | 321 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

Notes: 1) * Applies to the sum of these substances.
2) Shaded results denote that concentration above Class GA Groundwater Quality Standards.

## Table 3
## Metalico Aluminum Recovery, Inc.; Syracuse Facility
## Corrective Action Management Unit (CAMU)
## Groundwater Performance Monitoring
## Historical Laboratory Analytical Summary Table - (Monitoring Well B290)

| | | Total Lead | Dissolved Lead | pH | Specific Conduct. | Aroclors | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1016 | 1221 | 1232 | 1242 | 1248 | 1254 | 1260 |
| Units | | mg/l | mg/l | s.u. | us/cm | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| Class GA Standard | | 0.025 | 0.025 | 6.5-8.5 | NA | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* |
| B290 | Jun-98 | 41.9 | <0.02 | 6.94 | 2,180 | | | | | | | |
| | 1999 | <0.01 | 0.72 | 7.24 | 2,370 | | | | | | | |
| | Jun-00 | 0.045 | <0.001 | 6.87 | 2,410 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-00 | 0.050 | <0.001 | 7.42 | 2,120 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-00 | 0.092 | <0.001 | 7.01 | 1,784 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-01 | 0.007 | <0.001 | 7.01 | 1,693 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-02 | 0.048 | <0.001 | | | | | | | | | |
| | Sep-02 | 0.008 | <0.001 | 6.93 | 2,130 | | | | | | | |
| | Dec-02 | 0.042 | | 7.13 | 1,707 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-03 | 0.002 | <0.001 | 7.38 | 1,451 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-03 | 0.059 | <0.001 | 7.37 | 2,420 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-03 | 0.021 | <0.001 | 7.17 | 2,240 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-03 | 0.008 | 0.002 | 8.08 | 1,322 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-04 | <0.001 | <0.001 | 7.49 | 1,590 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-04 | 0.001 | <0.001 | 7.45 | 1,711 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-04 | 0.008 | <0.001 | 7.24 | 2,410 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-04 | <0.001 | 0.003 | 7.41 | 1,822 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-05 | 0.013 | <0.001 | 7.52 | 2,450 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-05 | 0.012 | <0.001 | 7.68 | 1,663 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

Notes: 1) * Applies to the sum of these substances.
2) Shaded results denote that concentration above Class GA Groundwater Quality Standards.

**Table 3 - continued**
**Metalico Aluminum Recovery, Inc.; Syracuse Facility**
**Corrective Action Management Unit (CAMU)**
**Groundwater Performance Monitoring**
**Historical Laboratory Analytical Summary Table - (Monitoring Well B290)**

| | | Total Lead | Dissolved Lead | pH | Specific Conduct. | Aroclors | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1016 | 1221 | 1232 | 1242 | 1248 | 1254 | 1260 |
| Units | | mg/l | mg/l | s.u. | us/cm | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| Class GA Standard | | 0.025 | 0.025 | 6.5-8.5 | NA | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* |
| B290 | Dec-05 | 0.002 | <0.001 | 7.17 | 2,600 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-06 | 0.023 | <0.003 | 7.67 | 1,676 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-06 | 0.006 | <0.003 | 7.26 | 2,430 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-07 | 0.016 | 0.004 | 8.10 | 701 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-07 | 0.0186 | <0.003 | 8.47 | 1,431 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

Notes: 1) * Applies to the sum of these substances.
2) Shaded results denote that concentration above Class GA Groundwater Quality Standards.

## Table 3
## Metalico Aluminum Recovery, Inc.; Syracuse Facility
## Corrective Action Management Unit (CAMU)
## Groundwater Performance Monitoring
## Historical Laboratory Analytical Summary Table - (Monitoring Well B291)

| | | Total Lead | Dissolved Lead | pH | Specific Conduct. | Aroclors | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1016 | 1221 | 1232 | 1242 | 1248 | 1254 | 1260 |
| Units | | mg/l | mg/l | s.u. | us/cm | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| Class GA Standard | | 0.025 | 0.025 | 6.5-8.5 | NA | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* |
| B291** | Sep-00 | 0.007 | 0.001 | 7.31 | 877 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-00 | 0.001 | 0.001 | 7.24 | 848 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-01 | 0.003 | <0.001 | 7.01 | 752 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-02 | <0.001 | <0.001 | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-02 | 0.002 | <0.001 | 7.4 | 1,134 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-03 | 0.002 | <0.001 | 7.37 | 800 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-03 | 0.003 | 0.001 | 7.38 | 1,213 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-03 | <0.001 | <0.001 | 7.21 | 898 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-03 | 0.008 | 0.002 | 8.81 | 804 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-04 | 0.002 | <0.001 | 7.31 | 860 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-04 | 0.001 | <0.001 | 7.53 | 1,167 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-04 | 0.003 | <0.001 | 7.21 | 746 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-04 | 0.001 | <0.001 | 7.10 | 958 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-05 | <0.001 | <0.001 | 7.18 | 996 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-05 | 0.002 | 0.001 | 7.36 | 813 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

Notes: 1) * Applies to the sum of these substances.
2) ** Monitoring well B291 replaced monitoring well B280 in this program in September 2000.
3) Shaded results denote that concentration above Class GA Groundwater Quality Standards.

**Table 3 - continued**
**Metalico Aluminum Recovery, Inc.; Syracuse Facility**
**Corrective Action Management Unit (CAMU)**
**Groundwater Performance Monitoring**
**Historical Laboratory Analytical Summary Table - (Monitoring Well B291)**

| | | Total Lead | Dissolved Lead | pH | Specific Conduct. | Aroclors | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1016 | 1221 | 1232 | 1242 | 1248 | 1254 | 1260 |
| Units | | mg/l | mg/l | s.u. | us/cm | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| Class GA Standard | | 0.025 | 0.025 | 6.5-8.5 | NA | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* |
| B291** | Dec-05 | 0.002 | <0.001 | 7.23 | 971 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-06 | <0.003 | <0.003 | 7.09 | 856 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-06 | <0.003 | <0.003 | 6.87 | 968 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-07 | 0.010 | 0.005 | 7.58 | 478 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-07 | <0.003 | <0.003 | 8.62 | 650 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

Notes: 1) * Applies to the sum of these substances.
2) ** Monitoring well B291 replaced monitoring well B280 in this program in September 2000.
3) Shaded results denote that concentration above Class GA Groundwater Quality Standards.

## Table 3
## Metalico Aluminum Recovery, Inc.; Syracuse Facility
## Corrective Action Management Unit (CAMU)
## Groundwater Performance Monitoring
## Historical Laboratory Analytical Summary Table - (Monitoring Well B401)

| | | Total Lead | Dissolved Lead | pH | Specific Conduct. | Aroclors | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1016 | 1221 | 1232 | 1242 | 1248 | 1254 | 1260 |
| Units | | mg/l | mg/l | s.u. | us/cm | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| Class GA Standard | | 0.025 | 0.025 | 6.5-8.5 | NA | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* |
| B401 | Jun-98 | 0.0124 | <0.002 | | | | | | | | | |
| | 1999 | 0.061 | <0.01 | 6.69 | 1,510 | | | | | | | |
| | Jun-00 | 0.044 | 0.003 | 6.78 | 1,275 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-00 | 0.35 | 0.002 | 7.29 | 1,159 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-00 | 0.059 | 0.007 | 7.44 | 1,180 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-01 | 0.033 | <0.001 | 7.26 | 810 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-02 | 0.21 | <0.001 | | | | | | | | | |
| | Sep-02 | 0.06 | 0.002 | 7.48 | 644 | | | | | | | |
| | Dec-02 | 0.013 | | 7.27 | 925 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-03 | 0.024 | <0.001 | 7.32 | 781 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-03 | 0.01 | 0.003 | 7.66 | 1,109 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-03 | 0.01 | 0.001 | 7.15 | 1,126 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-03 | 0.021 | 0.002 | 8.37 | 791 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-04 | 0.004 | <0.001 | 7.48 | 785 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-04 | 0.031 | <0.001 | 7.49 | 1,053 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-04 | 0.005 | <0.001 | 7.11 | 1,030 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-04 | 0.002 | <0.001 | 7.21 | 937 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-05 | 0.003 | <0.001 | 7.36 | 1,038 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-05 | 0.003 | 0.001 | 7.83 | 814 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

Notes: 1) * Applies to the sum of these substances.
2) Shaded results denote that concentration above Class GA Groundwater Quality Standards.

**Table 3 - continued**
**Metalico Aluminum Recovery, Inc.; Syracuse Facility**
**Corrective Action Management Unit (CAMU)**
**Groundwater Performance Monitoring**
**Historical Laboratory Analytical Summary Table - (Monitoring Well B401)**

| | | Total Lead | Dissolved Lead | pH | Specific Conduct. | Aroclors | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1016 | 1221 | 1232 | 1242 | 1248 | 1254 | 1260 |
| Units | | mg/l | mg/l | s.u. | us/cm | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| Class GA Standard | | 0.025 | 0.025 | 6.5-8.5 | NA | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* |
| B401 | Dec-05 | 0.007 | <0.001 | 7.18 | 1,066 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-06 | 0.042 | <0.003 | 7.46 | 986 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-06 | 0.011 | <0.003 | 6.39 | 502 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-07 | 0.008 | 0.003 | 7.46 | 441 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-07 | <0.003 | <0.003 | 8.32 | 691 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

Notes: 1) * Applies to the sum of these substances.
2) Shaded results denote that concentration above Class GA Groundwater Quality Standards.

## Table 3
## Metalico Aluminum Recovery, Inc.; Syracuse Facility
## Corrective Action Management Unit (CAMU)
## Groundwater Performance Monitoring
## Historical Laboratory Analytical Summary Table - (Monitoring Well B402R)

| | | Total Lead | Dissolved Lead | pH | Specific Conduct. | Aroclors | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1016 | 1221 | 1232 | 1242 | 1248 | 1254 | 1260 |
| Units | | mg/l | mg/l | s.u. | us/cm | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| Class GA Standard | | 0.025 | 0.025 | 6.5-8.5 | NA | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* |
| B402R | Dec-05 | 0.26 | 0.001 | 7.73 | 3,060 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.2 | <0.05 |
| | Jun-06 | 0.003 | <0.003 | 8.37 | 2,960 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-06 | 0.048 | <0.003 | 8.61 | 2,680 | 0.099 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-07 | 0.15 | 0.010 | 8.11 | 1,658 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 |
| | Dec-07 | 0.0423 | <0.003 | 8.13 | 1,470 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

Notes: 1) * Applies to the sum of these substances.
2) Shaded results denote that concentration above Class GA Groundwater Quality Standards.

## Table 3
## Metalico Aluminum Recovery, Inc.; Syracuse Facility
## Corrective Action Management Unit (CAMU)
## Groundwater Performance Monitoring
## Historical Laboratory Analytical Summary Table - (Monitoring Well B402)

| | | Total Lead | Dissolved Lead | pH | Specific Conduct. | Aroclors | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1016 | 1221 | 1232 | 1242 | 1248 | 1254 | 1260 |
| Units | | mg/l | mg/l | s.u. | us/cm | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| Class GA Standard | | 0.025 | 0.025 | 6.5-8.5 | NA | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* |
| B402** | Jun-98 | 0.0064 | 0.0041 | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | 1999 | 0.29 | <0.01 | 8.12 | 3,350 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 |
| | Jun-00 | 0.007 | 0.003 | 8.45 | 2,820 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-00 | 0.007 | 0.002 | 8.13 | 1,374 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-00 | 0.004 | 0.002 | 8.75 | 1,785 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-01 | 0.003 | 0.004 | 7.95 | 1,480 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-02 | <0.001 | <0.001 | | | | | | | | | |
| | Sep-02 | 0.004 | <0.001 | 8.44 | 2,260 | | | | | | | |
| | Dec-02 | <0.001 | | 8.96 | 2,080 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-03 | <0.001 | <0.001 | 8.72 | 1,628 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-03 | 0.002 | <0.001 | 9.07 | 2,450 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-03 | 0.001 | <0.001 | 7.49 | 1,671 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-03 | 0.003 | 0.002 | 10.69 | 2,050 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-04 | <0.001 | <0.001 | 8.98 | 1,892 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-04 | 0.002 | <0.001 | 7.71 | 2,820 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-04 | No Sample – Well Destroyed | | | | | | | | | | |

Notes: 1) * Applies to the sum of these substances.
2) Shaded results denote that concentration above Class GA Groundwater Quality Standards.

## Table 3
## Metalico Aluminum Recovery, Inc.; Syracuse Facility
## Corrective Action Management Unit (CAMU)
## Groundwater Performance Monitoring
## Historical Laboratory Analytical Summary Table - (Monitoring Well B403)

| | | Total Lead | Dissolved Lead | pH | Specific Conducl. | Aroclors | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1016 | 1221 | 1232 | 1242 | 1248 | 1254 | 1260 |
| Units | | mg/l | mg/l | s.u. | us/cm | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| Class GA Standard | | 0.025 | 0.025 | 6.5-8.5 | NA | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* |
| B403 | Jun-98 | 28.4 | <0.002 | 7.21 | 1,280 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | 1999 | 0.24 | 0.01 | 7.36 | 710 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.17 | <0.01 |
| | Jun-00 | 0.010 | 0.004 | 7.35 | 402 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-00 | 0.007 | 0.003 | 8.41 | 520 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-00 | 0.002 | 0.002 | 8.12 | 970 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-01 | 0.004 | 0.003 | 7.54 | 415 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-02 | <0.001 | <0.001 | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-02 | 0.005 | <0.001 | 7.11 | 456 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-02 | 0.003 | | 7.52 | 201 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-03 | 0.002 | <0.001 | 7.97 | 200 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-03 | 0.002 | <0.001 | 8.03 | 536 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-03 | 0.002 | <0.001 | 7.61 | 351 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-03 | 0.004 | 0.001 | 8.41 | 235 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-04 | 0.003 | 0.002 | 7.44 | 296 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-04 | 0.001 | 0.002 | 7.65 | 681 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-04 | 0.001 | <0.001 | 7.23 | 662 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-04 | <0.001 | <0.001 | 7.52 | 613 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-05 | <0.001 | <0.001 | 7.82 | 1,156 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-05 | 0.003 | 0.002 | 7.64 | 1,135 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

Notes: 1) * Applies to the sum of these substances.
2) Shaded results denote that concentration above Class GA Groundwater Quality Standards.

**Table 3 - continued**
**Metalico Aluminum Recovery, Inc.; Syracuse Facility**
**Corrective Action Management Unit (CAMU)**
**Groundwater Performance Monitoring**
**Historical Laboratory Analytical Summary Table - (Monitoring Well B403)**

| | | Total Lead | Dissolved Lead | pH | Specific Conduct. | Aroclors | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1016 | 1221 | 1232 | 1242 | 1248 | 1254 | 1260 |
| Units | | mg/l | mg/l | s.u. | us/cm | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| Class GA Standard | | 0.025 | 0.025 | 6.5-8.5 | NA | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* |
| B403 | Dec-05 | 0.002 | 0.001 | 7.18 | 1,372 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-06 | <0.003 | <0.003 | 7.36 | 1,479 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-06 | <0.003 | <0.003 | 7.85 | 1,719 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-07 | <0.003 | 0.005 | 8.41 | 822 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-07 | <0.003 | <0.003 | 8.61 | 913 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

Notes: 1) * Applies to the sum of these substances.
2) Shaded results denote that concentration above Class GA Groundwater Quality Standards.

**Table 3**
**Metalico Aluminum Recovery, Inc.; Syracuse Facility**
**Corrective Action Management Unit (CAMU)**
**Groundwater Performance Monitoring**
**Historical Laboratory Analytical Summary Table - (Monitoring Well B404)**

| | | Total Lead | Dissolved Lead | pH | Specific Conduct. | Aroclors | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1016 | 1221 | 1232 | 1242 | 1248 | 1254 | 1260 |
| Units | | mg/l | mg/l | s.u. | us/cm | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| Class GA Standard | | 0.025 | 0.025 | 6.5-8.5 | NA | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* |
| B404 | Jun-98 | 0.0071 | 0.0027 | 10.55 | 2,380 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | 1999 | <0.01 | <0.01 | 6.72 | 1,740 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.17 | <0.01 |
| | Jun-00 | 0.004 | 0.002 | 6.97 | 1,573 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-00 | 0.002 | 0.002 | 7.32 | 1,114 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-00 | 0.003 | <0.001 | 7.47 | 589 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-01 | 0.003 | 0.003 | 7.54 | 610 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-02 | <0.001 | <0.001 | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-02 | 0.003 | <0.001 | 7.09 | 731 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-02 | 0.003 | | 7.33 | 374 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-03 | <0.001 | <0.001 | 7.61 | 272 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-03 | 0.002 | <0.001 | 7.63 | 544 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-03 | 0.001 | <0.001 | 7.26 | 526 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-03 | 0.004 | 0.002 | 9.83 | 297 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-04 | 0.001 | 0.002 | 8.14 | 286 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-04 | 0.001 | <0.001 | 8.55 | 516 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Sep-04 | 0.002 | 0.001 | 7.43 | 559 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-04 | <0.001 | <0.001 | 7.66 | 348 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Mar-05 | <0.001 | <0.001 | 7.28 | 512 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-05 | 0.003 | <0.001 | 7.56 | 367 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |

Notes: 1) * Applies to the sum of these substances.
2) Shaded results denote that concentration above Class GA Groundwater Quality Standards.

**Table 3 - continued**
**Metalico Aluminum Recovery, Inc.; Syracuse Facility**
**Corrective Action Management Unit (CAMU)**
**Groundwater Performance Monitoring**
**Historical Laboratory Analytical Summary Table - (Monitoring Well B404)**

| | | Total Lead | Dissolved Lead | pH | Specific Conduct. | Aroclors | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1016 | 1221 | 1232 | 1242 | 1248 | 1254 | 1260 |
| Units | | mg/l | mg/l | s.u. | us/cm | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| Class GA Standard | | 0.025 | 0.025 | 6.5-8.5 | NA | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* |
| B404 | Dec-05 | <0.001 | <0.001 | 7.14 | 512 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-06 | <0.003 | <0.003 | 7.46 | 523 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-06 | <0.003 | <0.003 | 6.89 | 474 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Jun-07 | 0.006 | 0.004 | 7.24 | 365 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-07 | <0.003 | <0.003 | 7.24 | 365 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |

Notes: 1) * Applies to the sum of these substances.
2) Shaded results denote that concentration above Class GA Groundwater Quality Standards.

## Table 3
## Metalico Aluminum Recovery, Inc.; Syracuse Facility
## Corrective Action Management Unit (CAMU)
## Groundwater Performance Monitoring
## Historical Laboratory Analytical Summary Table - (Monitoring Well MW-8R)

| | | Total Lead | Dissolved Lead | pH | Specific Conduct. | Aroclors | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 1016 | 1221 | 1232 | 1242 | 1248 | 1254 | 1260 |
| Units | | mg/l | mg/l | s.u. | us/cm | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l | µg/l |
| Class GA Standard | | 0.025 | 0.025 | 6.5-8.5 | NA | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* | 0.09* |
| MW-8R | Sep-02 | 0.004 | 0.001 | 9.21 | 933 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 |
| | Dec-02 | 0.002 | | 9.62 | 567 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 2.6 | <0.05 |
| | Mar-03 | 0.001 | 0.002 | 8.82 | 551 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.3 | <0.05 |
| | Jun-03 | 0.002 | 0.002 | 8.59 | 726 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.25 | <0.05 |
| | Sep-03 | 0.002 | <0.001 | 8.05 | 441 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 5.9 | <0.05 |
| | Dec-03 | 0.004 | 0.002 | 8.37 | 576 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 3.6 | <0.05 |
| | Mar-04 | 0.002 | <0.001 | 7.91 | 531 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 2.6 | <0.05 |
| | Jun-04 | 0.002 | <0.001 | 8.06 | 332 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.32 | <0.05 |
| | Sep-04 | <0.001 | 0.002 | 7.14 | 811 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Dec-04 | 0.009 | <0.001 | 7.36 | 996 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.98 | <0.05 |
| | Mar-05 | <0.001 | <0.001 | 7.76 | 1,158 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.2 | <0.05 |
| | Jun-05 | 0.002 | 0.001 | 8 | 402 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 3.3 | <0.05 |
| | Dec-05 | 0.001 | 0.001 | 7.67 | 893 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.63 | <0.05 |
| | Jun-06 | 0.004 | <0.003 | 8.39 | 239 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 0.92 | <0.05 |
| | Dec-06 | 0.21 | <0.003 | 7.46 | 549 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 9.3 | <0.05 |
| | Jun-07 | 0.006 | <0.003 | 8.48 | 449 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 3.9 | <0.05 |
| | Dec-07 | <0.003 | <0.003 | 8.47 | 1,113 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 0.7 | <1.0 |

Notes: 1) * Applies to the sum of these substances.
2) MW-8R was installed in September 2002 and added to the CAMU monitoring at that time.
3) Shaded results denote that concentration above Class GA Groundwater Quality Standards.

## Table 4
## Metalico Aluminum Recovery, Inc.; Syracuse Facility
## Corrective Action Management Unit (CAMU)
## Groundwater Performance Monitoring
## Historical Laboratory Analytical Summary Table
## Oil & Grease, Arsenic, and Barium

| | | Oil & Grease | Arsenic (Total) | Arsenic (Dissolved) | Barium (Total) | Barium (Dissolved) |
|---|---|---|---|---|---|---|
| Units | | mg/l | mg/l | mg/l | mg/l | mg/l |
| Class GA Standard | | NA | 0.025 | 0.025 | 1.0 | 1.0 |
| B107 | Jun-00 | | | | <0.3 | <0.3 |
| | Sep-02 | | | | 0.31 | 0.34 |
| | Dec-03 | | | | 0.4 | 0.4 |
| | Mar-04 | | | | 0.5 | 0.3 |
| | Jun-05 | | | | 0.34 | 0.34 |
| | Jun-07 | | | | 0.71 | 0.65 |
| | Dec-07 | | | | NS | NS |
| B108 | Sep-02 | | | | 0.73 | 0.78 |
| | Dec-03 | | | | 0.4 | 1 |
| | Mar-04 | | | | 0.5 | 0.4 |
| | Jun-05 | | | | 0.73 | 0.7 |
| | Jun-07 | | | | 1.3 | 0.49 |
| | Dec-07 | | | | 1.34 | 0.303 |
| B280* | Jun-98 | | <0.003 | 0.0036 | | |
| | 1999 | | <0.01 | <0.01 | | |
| | Jun-00 | | 0.004 | 0.004 | | |
| B291* | Jun-02 | | 0.012 | <0.010 | | |
| | Sep-02 | | <0.010 | <0.010 | | |
| | Dec-03 | | 0.012 | <0.010 | | |
| | Mar-04 | | 0.020 | 0.016 | | |
| | Jun-05 | | <0.01 | <0.01 | | |
| | Jun-07 | | <0.010 | <0.010 | | |
| | Dec-07 | | <0.010 | <0.010 | | |

Notes: 1) * Monitoring well B291 replaced monitoring well B280 in this program in September 2000.
2) Shaded results denote that concentration above Class GA Groundwater Quality Standards.
3) NS = Not Sampled, well could not be located.

## Table 4
## Metalico Aluminum Recovery, Inc.; Syracuse Facility
## Corrective Action Management Unit (CAMU)
## Groundwater Performance Monitoring
## Historical Laboratory Analytical Summary Table
## Oil & Grease, Arsenic, and Barium

| | | Oil & Grease | Arsenic (Total) | Arsenic (Dissolved) | Barium (Total) | Barium (Dissolved) |
|---|---|---|---|---|---|---|
| Units | | mg/l | mg/l | mg/l | mg/l | mg/l |
| Class GA Standard | | NA | 0.025 | 0.025 | 1.0 | 1.0 |
| B281 | Jun-98 | | 0.0059 | <0.003 | | |
| | 1999 | | <0.01 | <0.01 | | |
| | Jun-00 | | 0.060 | 0.001 | <0.3 | <0.3 |
| | Jun-02 | | 0.037 | 0.017 | | |
| | Sep-02 | | 0.023 | <0.010 | <0.03 | <0.03 |
| | Dec-03 | | 0.017 | <0.001 | <0.3 | <0.3 |
| | Mar-04 | | 0.031 | 0.017 | <0.3 | <0.3 |
| | Jun-05 | | 0.016 | 0.011 | <0.3 | <0.3 |
| | Jun-07 | | 0.028 | <0.010 | <0.3 | <0.3 |
| | Dec-07 | | 0.0642 | <0.010 | <0.5 | <0.5 |
| MW-8R | Sep-02 | <5 | | | | |

Notes: 1) * Monitoring well B291 replaced monitoring well B280 in this program in September 2000.
2) Shaded results denote that concentration above Class GA Groundwater Quality Standards.
3) NS = Not Sampled, well could not be located.

## Attachment 3

## Laboratory Report and Field Logs

# Upstate Laboratories, Inc.

**Shipping: 6034 Corporate Dr. * E. Syracuse, NY 13057-1017 * (315) 437-0255 * Fax (315) 437-1209**
**Mailing: Box 169 * Syracuse, NY 13206**
Albany (518) 459-3134 * Binghamton (607) 724-0478 * Buffalo (716) 649-2533
Rochester (585) 436-9070 * New Jersey (201) 343-5353 * South Carolina (864) 878-3280

Mr. Dennis R. Flanagan
Metalico Syracuse, Inc.
PO Box 88
E. Syracuse, NY 13057

January 25, 2008

RE: Semi-Annual Metalico Wells

Order No.: U0801014

Dear Mr. Flanagan:

Upstate Laboratories, Inc. received 11 samples on 12/31/07 for the analyses presented in the following report.

All analytical results relate to the samples as received by the laboratory.

All analytical data conforms with standard approved methodologies and quality control. Our quality control narrative will be included should any anomalies occur.

We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your samples. Samples will be disposed of approximately one month from final report date.

Should you have any questions, please feel free to give us a call.

Thank you for your patronage.

Sincerely,
UPSTATE LABORATORIES, INC.
Anthony J. Scala
Anthony J. Scala
President/CEO

Enclosures: report, field data, invoice

cc:
S. Overhoff, Hazard Evaluations, Inc.: ASP-B Vol. 1, report, field data
M. Kosciewicz: ASP-B Pkg.

Confidentiality Statement: This report is meant for the use of the intended recipient. It may contain confidential information, which is legally privileged or otherwise protected by law. If you have received this report in error, you are strictly prohibited from reviewing, using, disseminating, distributing or copying the information.

# Upstate Laboratories, Inc.

## Analytical Report

Date: *25-Jan-08*

| | | | |
|---|---|---|---|
| **CLIENT:** | Metalico Syracuse, Inc. | **Client Sample ID:** | MW-8R |
| **Lab Order:** | U0801014 | **Collection Date:** | 12/31/2007 12:10:00 PM |
| **Project:** | Semi-Annual Metalico Wells | | |
| **Lab ID:** | U0801014-001 | **Matrix:** | WATER |

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **FIELD PARAMETERS** | | **FLD** | | | | Analyst: |
| Conductivity | 1113 | 1.0 | | umhos/cm | | 12/31/2007 12:10:00 PM |
| pH | 8.47 | 6.5-8.5 | | SU | | 12/31/2007 12:10:00 PM |
| **POLYCHLORINATED BIPHENYLS IN WASTEWAT** | | **SW8082** | | **(SW3510B)** | | Analyst: KC |
| Aroclor 1016 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1221 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1232 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1242 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1248 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1254 | 0.7 | 1.0 | J | µg/L | 1 | 1/22/2008 |
| Aroclor 1260 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| **ICP METALS, TOTAL ASP** | | **E200.7** | | **(E200.7)** | | Analyst: EA |
| Lead | ND | 3.00 | | µg/L | 1 | 1/15/2008 11:42:37 AM |
| **ICP METALS, DISSOLVED ASP** | | **E200.7** | | **(E200.7)** | | Analyst: EA |
| Lead | ND | 3.00 | | µg/L | 1 | 1/15/2008 10:39:59 AM |

**Approved By:** PFF **Date:** 1-25-08



**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Low Level | ** | Value exceeds Maximum Contaminant Value |
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | S | Spike Recovery outside accepted recovery limits |

# Upstate Laboratories, Inc.

## Analytical Report

**Date:** *25-Jan-08*

| | | | |
|---|---|---|---|
| **CLIENT:** | Metalico Syracuse, Inc. | **Client Sample ID:** | B281 |
| **Lab Order:** | U0801014 | **Collection Date:** | 12/31/2007 12:25:00 PM |
| **Project:** | Semi-Annual Metalico Wells | | |
| **Lab ID:** | U0801014-002 | **Matrix:** | WATER |

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **FIELD PARAMETERS** | | **FLD** | | | | Analyst: |
| Conductivity | 321 | 1.0 | | umhos/cm | | 12/31/2007 12:25:00 PM |
| pH | 8.71 | 6.5-8.5 | | SU | | 12/31/2007 12:25:00 PM |
| **POLYCHLORINATED BIPHENYLS IN WASTEWAT** | | **SW8082** | | **(SW3510B)** | | Analyst: **KC** |
| Aroclor 1016 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1221 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1232 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1242 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1248 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1254 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1260 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| **ICP METALS, TOTAL ASP** | | **E200.7** | | **(E200.7)** | | Analyst: **EA** |
| Arsenic | 64.2 | 10.0 | | µg/L | 1 | 1/15/2008 11:53:18 AM |
| Barium | ND | 50.0 | | µg/L | 1 | 1/15/2008 11:53:18 AM |
| Lead | ND | 3.00 | | µg/L | 1 | 1/15/2008 11:53:18 AM |
| **ICP METALS, DISSOLVED ASP** | | **E200.7** | | **(E200.7)** | | Analyst: **EA** |
| Arsenic | ND | 10.0 | | µg/L | 1 | 1/15/2008 10:43:28 AM |
| Barium | ND | 50.0 | | µg/L | 1 | 1/15/2008 10:43:28 AM |
| Lead | ND | 3.00 | | µg/L | 1 | 1/15/2008 10:43:28 AM |

**Approved By:** PFF **Date:** 1-25-08



Qualifiers:

| | | | |
|---|---|---|---|
| * | Low Level | ** | Value exceeds Maximum Contaminant Value |
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | S | Spike Recovery outside accepted recovery limits |

# Upstate Laboratories, Inc.

## Analytical Report

**Date:** *25-Jan-08*

| | | | |
|---|---|---|---|
| **CLIENT:** | Metalico Syracuse, Inc. | **Client Sample ID:** | B290 |
| **Lab Order:** | U0801014 | **Collection Date:** | 12/31/2007 12:17:00 PM |
| **Project:** | Semi-Annual Metalico Wells | | |
| **Lab ID:** | U0801014-003 | **Matrix:** | WATER |

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **FIELD PARAMETERS** | | **FLD** | | | | Analyst: |
| Conductivity | 1431 | 1.0 | | umhos/cm | | 12/31/2007 12:17:00 PM |
| pH | 8.47 | 6.5-8.5 | | SU | | 12/31/2007 12:17:00 PM |
| **POLYCHLORINATED BIPHENYLS IN WASTEWAT** | | **SW8082** | | **(SW3510B)** | | Analyst: KC |
| Aroclor 1016 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1221 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1232 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1242 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1248 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1254 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1260 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| **ICP METALS, TOTAL ASP** | | **E200.7** | | **(E200.7)** | | Analyst: EA |
| Lead | 18.6 | 3.00 | | µg/L | 1 | 1/15/2008 12:03:28 PM |
| **ICP METALS, DISSOLVED ASP** | | **E200.7** | | **(E200.7)** | | Analyst: EA |
| Lead | ND | 3.00 | | µg/L | 1 | 1/15/2008 10:53:20 AM |

**Approved By:** PFF **Date:** 1-25-08



**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Low Level | ** | Value exceeds Maximum Contaminant Value |
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | S | Spike Recovery outside accepted recovery limits |

# Upstate Laboratories, Inc.

## Analytical Report

**Date:** *25-Jan-08*

| | | | |
|---|---|---|---|
| **CLIENT:** | Metalico Syracuse, Inc. | **Client Sample ID:** | B291 |
| **Lab Order:** | U0801014 | **Collection Date:** | 12/31/2007 11:27:00 AM |
| **Project:** | Semi-Annual Metalico Wells | | |
| **Lab ID:** | U0801014-004 | **Matrix:** | WATER |

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **FIELD PARAMETERS** | | **FLD** | | | | Analyst: |
| Conductivity | 650 | 1.0 | | umhos/cm | | 12/31/2007 11:27:00 AM |
| pH | 8.62 | 6.5-8.5 | | SU | | 12/31/2007 11:27:00 AM |
| **POLYCHLORINATED BIPHENYLS IN WASTEWAT** | | **SW8082** | | **(SW3510B)** | | Analyst: KC |
| Aroclor 1016 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1221 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1232 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1242 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1248 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1254 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1260 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| **ICP METALS, TOTAL ASP** | | **E200.7** | | **(E200.7)** | | Analyst: EA |
| Arsenic | ND | 10.0 | | µg/L | 1 | 1/15/2008 12:06:55 PM |
| Lead | ND | 3.00 | | µg/L | 1 | 1/15/2008 12:06:55 PM |
| **ICP METALS, DISSOLVED ASP** | | **E200.7** | | **(E200.7)** | | Analyst: EA |
| Arsenic | ND | 10.0 | | µg/L | 1 | 1/15/2008 10:56:43 AM |
| Lead | ND | 3.00 | | µg/L | 1 | 1/15/2008 10:56:43 AM |

**Approved By:** PFF **Date:** 1-25-08



**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Low Level | ** | Value exceeds Maximum Contaminant Value |
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | S | Spike Recovery outside accepted recovery limits |

# Upstate Laboratories, Inc.

## Analytical Report

Date: *25-Jan-08*

| | | | |
|---|---|---|---|
| CLIENT: | Metalico Syracuse, Inc. | Client Sample ID: | B401 |
| Lab Order: | U0801014 | Collection Date: | 12/31/2007 11:20:00 AM |
| Project: | Semi-Annual Metalico Wells | | |
| Lab ID: | U0801014-005 | Matrix: | WATER |

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **FIELD PARAMETERS** | | FLD | | | | Analyst: |
| Conductivity | 691 | 1.0 | | umhos/cm | | 12/31/2007 11:20:00 AM |
| pH | 8.32 | 6.5-8.5 | | SU | | 12/31/2007 11:20:00 AM |
| **POLYCHLORINATED BIPHENYLS IN WASTEWAT** | | SW8082 | | (SW3510B) | | Analyst: KC |
| Aroclor 1016 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1221 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1232 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1242 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1248 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1254 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1260 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| **ICP METALS, TOTAL ASP** | | E200.7 | | (E200.7) | | Analyst: EA |
| Lead | ND | 3.00 | | µg/L | 1 | 1/15/2008 12:10:39 PM |
| **ICP METALS, DISSOLVED ASP** | | E200.7 | | (E200.7) | | Analyst: EA |
| Lead | ND | 3.00 | | µg/L | 1 | 1/15/2008 11:00:26 AM |

Approved By: PEF Date: 1-25-08



Qualifiers:

| | | | |
|---|---|---|---|
| * | Low Level | ** | Value exceeds Maximum Contaminant Value |
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | S | Spike Recovery outside accepted recovery limits |

# Upstate Laboratories, Inc.

## Analytical Report

Date: *25-Jan-08*

| | | | |
|---|---|---|---|
| **CLIENT:** | Metalico Syracuse, Inc. | **Client Sample ID:** | B402R |
| **Lab Order:** | U0801014 | **Collection Date:** | 12/31/2007 11:47:00 AM |
| Project: | Semi-Annual Metalico Wells | | |
| **Lab ID:** | U0801014-006 | **Matrix:** | WATER |

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **FIELD PARAMETERS** | | **FLD** | | | | Analyst: |
| Conductivity | 1470 | 1.0 | | umhos/cm | | 12/31/2007 11:47:00 AM |
| pH | 8.13 | 6.5-8.5 | | SU | | 12/31/2007 11:47:00 AM |
| **POLYCHLORINATED BIPHENYLS IN WASTEWAT** | | **SW8082** | | **(SW3510B)** | | Analyst: KC |
| Aroclor 1016 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1221 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1232 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1242 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1248 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1254 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1260 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| **ICP METALS, TOTAL ASP** | | **E200.7** | | **(E200.7)** | | Analyst: EA |
| Lead | 4.23 | 3.00 | | µg/L | 1 | 1/15/2008 12:14:08 PM |
| **ICP METALS, DISSOLVED ASP** | | **E200.7** | | **(E200.7)** | | Analyst: EA |
| Lead | ND | 3.00 | | µg/L | 1 | 1/15/2008 11:10:46 AM |

Approved By: PEF Date: 1-25-08



Qualifiers:

| | | | |
|---|---|---|---|
| * | Low Level | ** | Value exceeds Maximum Contaminant Value |
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | S | Spike Recovery outside accepted recovery limits |

# Upstate Laboratories, Inc.

## Analytical Report

Date: *25-Jan-08*

| | | | |
|---|---|---|---|
| **CLIENT:** | Metalico Syracuse, Inc. | **Client Sample ID:** | B403 |
| **Lab Order:** | U0801014 | **Collection Date:** | 12/31/2007 11:58:00 AM |
| **Project:** | Semi-Annual Metalico Wells | | |
| **Lab ID:** | U0801014-007 | **Matrix:** | WATER |

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **FIELD PARAMETERS** | | **FLD** | | | | Analyst: |
| Conductivity | 913 | 1.0 | | umhos/cm | | 12/31/2007 11:58:00 AM |
| pH | 8.61 | 6.5-8.5 | | SU | | 12/31/2007 11:58:00 AM |
| **POLYCHLORINATED BIPHENYLS IN WASTEWAT** | | **SW8082** | | **(SW3510B)** | | Analyst: **KC** |
| Aroclor 1016 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1221 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1232 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1242 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1248 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1254 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1260 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| **ICP METALS, TOTAL ASP** | | **E200.7** | | **(E200.7)** | | Analyst: **EA** |
| Lead | ND | 3.00 | | µg/L | 1 | 1/15/2008 12:17:53 PM |
| **ICP METALS, DISSOLVED ASP** | | **E200.7** | | **(E200.7)** | | Analyst: **EA** |
| Lead | ND | 3.00 | | µg/L | 1 | 1/15/2008 11:14:30 AM |

**Approved By:** PEF **Date:** 1-25-08



**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Low Level | ** | Value exceeds Maximum Contaminant Value |
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | S | Spike Recovery outside accepted recovery limits |

# Upstate Laboratories, Inc.

## Analytical Report

Date: *25-Jan-08*

| | | | |
|---|---|---|---|
| **CLIENT:** | Metalico Syracuse, Inc. | **Client Sample ID:** | B404 |
| **Lab Order:** | U0801014 | **Collection Date:** | 12/31/2007 11:35:00 AM |
| **Project:** | Semi-Annual Metalico Wells | | |
| **Lab ID:** | U0801014-008 | **Matrix:** | WATER |

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **FIELD PARAMETERS** | | FLD | | | | Analyst: |
| Conductivity | 365 | 1.0 | | umhos/cm | | 12/31/2007 11:35:00 AM |
| pH | 7.24 | 6.5-8.5 | | SU | | 12/31/2007 11:35:00 AM |
| **POLYCHLORINATED BIPHENYLS IN WASTEWAT** | | SW8082 | | (SW3510B) | | Analyst: KC |
| Aroclor 1016 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1221 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1232 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1242 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1248 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1254 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1260 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| **ICP METALS, TOTAL ASP** | | E200.7 | | (E200.7) | | Analyst: EA |
| Lead | ND | 3.00 | | µg/L | 1 | 1/15/2008 12:21:18 PM |
| **ICP METALS, DISSOLVED ASP** | | E200.7 | | (E200.7) | | Analyst: EA |
| Lead | ND | 3.00 | | µg/L | 1 | 1/15/2008 11:17:55 AM |

Approved By: PFF Date: 1-25-08



Qualifiers:

| | | | |
|---|---|---|---|
| * | Low Level | ** | Value exceeds Maximum Contaminant Value |
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | S | Spike Recovery outside accepted recovery limits |

# Upstate Laboratories, Inc.

## Analytical Report

Date: *25-Jan-08*

| | | | |
|---|---|---|---|
| **CLIENT:** | Metalico Syracuse, Inc. | **Client Sample ID:** | B108 |
| **Lab Order:** | U0801014 | **Collection Date:** | 12/31/2007 12:38:00 PM |
| **Project:** | Semi-Annual Metalico Wells | | |
| **Lab ID:** | U0801014-009 | **Matrix:** | WATER |

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **FIELD PARAMETERS** | | FLD | | | | Analyst: |
| Conductivity | 394 | 1.0 | | umhos/cm | | 12/31/2007 12:38:00 PM |
| pH | 8.21 | 6.5-8.5 | | SU | | 12/31/2007 12:38:00 PM |
| **ICP METALS, TOTAL ASP** | | E200.7 | | (E200.7) | | Analyst: EA |
| Barium | 1340 | 50.0 | | µg/L | 1 | 1/15/2008 12:25:04 PM |
| **ICP METALS, DISSOLVED ASP** | | E200.7 | | (E200.7) | | Analyst: EA |
| Barium | 303 | 50.0 | | µg/L | 1 | 1/15/2008 11:21:22 AM |

**Approved By:** PFF **Date:** 1-25-08



**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Low Level | ** | Value exceeds Maximum Contaminant Value |
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | S | Spike Recovery outside accepted recovery limits |

# Upstate Laboratories, Inc.

## Analytical Report

Date: *25-Jan-08*

| | | | |
|---|---|---|---|
| CLIENT: | Metalico Syracuse, Inc. | Client Sample ID: | B402R Dupe |
| Lab Order: | U0801014 | Collection Date: | 12/31/2007 11:47:00 AM |
| Project: | Semi-Annual Metalico Wells | | |
| Lab ID: | U0801014-010 | Matrix: | WATER |

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **POLYCHLORINATED BIPHENYLS IN WASTEWAT** | | **SW8082** | | **(SW3510B)** | | **Analyst: KC** |
| Aroclor 1016 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1221 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1232 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1242 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1248 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1254 | 0.1 | 1.0 | J | µg/L | 1 | 1/22/2008 |
| Aroclor 1260 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| **ICP METALS, TOTAL ASP** | | **E200.7** | | **(E200.7)** | | **Analyst: EA** |
| Lead | 4.29 | 3.00 | | µg/L | 1 | 1/15/2008 12:35:44 PM |
| **ICP METALS, DISSOLVED ASP** | | **E200.7** | | **(E200.7)** | | **Analyst: EA** |
| Lead | ND | 3.00 | | µg/L | 1 | 1/15/2008 11:24:56 AM |

Approved By: PFF Date: 1-25-08



Qualifiers:

| | | | |
|---|---|---|---|
| * | Low Level | ** | Value exceeds Maximum Contaminant Value |
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | S | Spike Recovery outside accepted recovery limits |

# Upstate Laboratories, Inc.

## Analytical Report

**Date:** *25-Jan-08*

**CLIENT:** Metalico Syracuse, Inc.
**Client Sample ID:** Equipment Blank
**Lab Order:** U0801014
**Collection Date:** 12/31/2007 8:00:00 AM
**Project:** Semi-Annual Metalico Wells
**Lab ID:** U0801014-011
**Matrix:** WATER

| Analyses | Result | Limit | Qual | Units | DF | Date Analyzed |
|---|---|---|---|---|---|---|
| **POLYCHLORINATED BIPHENYLS IN WASTEWAT** | | **SW8082** | | **(SW3510B)** | | Analyst: KC |
| Aroclor 1016 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1221 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1232 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1242 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1248 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| Aroclor 1254 | 0.08 | 1.0 | J | µg/L | 1 | 1/22/2008 |
| Aroclor 1260 | ND | 1.0 | | µg/L | 1 | 1/22/2008 |
| **ICP METALS, TOTAL ASP** | | **E200.7** | | **(E200.7)** | | Analyst: EA |
| Arsenic | ND | 10.0 | | µg/L | 1 | 1/15/2008 12:42:40 PM |
| Barium | ND | 50.0 | | µg/L | 1 | 1/15/2008 12:42:40 PM |
| Lead | ND | 3.00 | | µg/L | 1 | 1/15/2008 12:42:40 PM |
| **ICP METALS, DISSOLVED ASP** | | **E200.7** | | **(E200.7)** | | Analyst: EA |
| Arsenic | ND | 10.0 | | µg/L | 1 | 1/15/2008 11:31:55 AM |
| Barium | ND | 50.0 | | µg/L | 1 | 1/15/2008 11:31:55 AM |
| Lead | ND | 3.00 | | µg/L | 1 | 1/15/2008 11:31:55 AM |

**Approved By:** PFF **Date:** 1-25-08



**Qualifiers:**

| | | | |
|---|---|---|---|
| * | Low Level | ** | Value exceeds Maximum Contaminant Value |
| B | Analyte detected in the associated Method Blank | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | I | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | S | Spike Recovery outside accepted recovery limits |

Upstate Laboratories, Inc. Ground water Field Log File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Semi-Annual**

Well ID.: **MW-8R**

Job ID No. (enter by lab): [illegible]

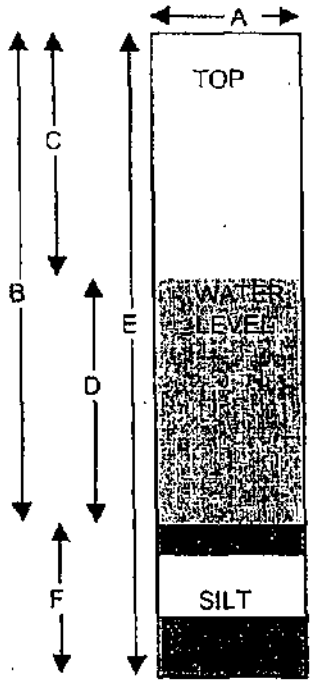
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | 10 | feet |
| C. | Depth to Water | 2.85 | feet |
| D. | Length of Water Column (calculated) | 7.15 | feet |
| | Conversion Factor | X.16 | ---- |
| | Well Volume (calculated) | 1.14 | gallons |
| | No. of Volumes to be Evacuated | x3 | ---- |
| | Total Volume to be Evacuated | 3.42 | gallons |
| | Actual Volume Evacuated | 3.5 | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 9:58 AM | 12:10 PM |
| EH | N/A | N/A |
| Temperature | N/A | N/A |
| pH | 8.69 | 8.47 |
| Specific Cond. | 1039 | 1113 |
| Turbidity | N/A | N/A |
| Dissolved Oxygen | N/A | N/A |
| Appearance | cloudy | cloudy |

Weather: 35 f, sun 35 f, sun

Observations:

% Recharge:

| | | |
|---|---|---|
| Initial Depth to Water | 2.85 | feet |
| Recharge Depth to Water | 2.98 | feet |
| 2nd water column height | 95.63 | % |
| 1st water column height | | |
| Elevation(Top of Casing) | N/A | feet |
| G.W. Elevation= | N/A | feet |

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Justin Gibson

Signature: Justin Gibson

FOIL208572

Upstate Laboratories, Inc. Ground water Field Log File: TS-30-01 Revised: 2/97

Client: **Metallico**

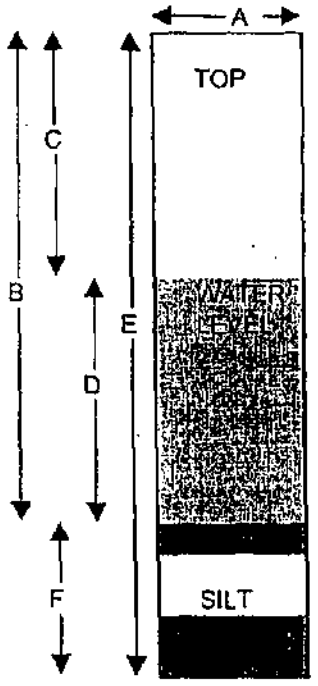
Project: **Semi-Annual**

Well ID.: **B-281**

Condition of Well: Good Locked: YES

Method of Evacuation: Peristolic Pump Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | 13.03 | feet |
| C. | Depth to Water | 6.73 | feet |
| D. | Length of Water Column (calculated) | 6.3 | feet |
| | Conversion Factor | X.16 | ----- |
| | Well Volume (calculated) | 1.008 | gallons |
| | No. of Volumes to be Evacuated | x3 | ----- |
| | Total Volume to be Evacuated | 3.024 | gallons |
| | Actual Volume Evacuated | 3 | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 10:22 AM | 12:25 PM |
| EH | N/A | N/A |
| Temperature | N/A | N/A |
| pH | 9.03 | 8.71 |
| Specific Cond. | 310 | 321 |
| Turbidity | N/A | N/A |
| Dissolved Oxygen | N/A | N/A |
| Appearance | sl. Orange | cloudy |
| Weather: | 35 f, sun | 35 f, sun |
| Observations: | MSD | |

% Recharge:

| | | |
|---|---|---|
| Initial Depth to Water | 6.73 | feet |
| Recharge Depth to Water | 6.91 | feet |
| 2nd water column height | 97.4 | % |
| 1st water column height | | |
| Elevation(Top of Casing) | N/A | feet |
| G.W. Elevation= | N/A | feet |

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Justin Gibson

Signature: Justin Gibson

FOIL208573

# Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Semi-Annual**

Well ID.: **B-290**

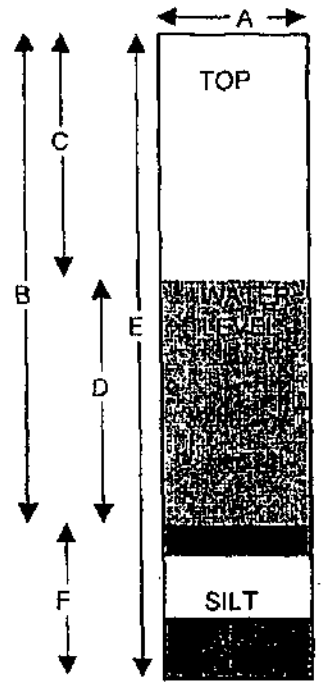
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | 10.26 | feet |
| C. | Depth to Water | 4.84 | feet |
| D. | Length of Water Column (calculated) | 5.42 | feet |
| | Conversion Factor | X.16 | ------ |
| | Well Volume (calculated) | 0.87 | gallons |
| | No. of Volumes to be Evacuated | x3 | ---- |
| | Total Volume to be Evacuated | 2.61 | gallons |
| | Actual Volume Evacuated | 2.5 | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 10:11 AM | 12:17 PM |
| EH | N/A | N/A |
| Temperature | N/A | N/A |
| pH | 8.54 | 8.47 |
| Specific Cond. | 1439 | 1431 |
| Turbidity | N/A | N/A |
| Dissolved Oxygen | N/A | N/A |
| Appearance | orange | orange |
| Weather: | 35 f, sun | 35 f, sun |

Observations:

% Recharge:

| | | |
|---|---|---|
| Initial Depth to Water | 4.84 | feet |
| Recharge Depth to Water | 5.02 | feet |
| 2nd water column height | 96.41 | % |
| 1st water column height | | |
| Elevation(Top of Casing) | N/A | feet |
| G.W. Elevation= | N/A | feet |

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Justin Gibson

Signature: Justin Gibson

FOIL208574

Upstate Laboratories, Inc. Ground water Field Log File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Semi-Annual**

Well ID.: **B-291**

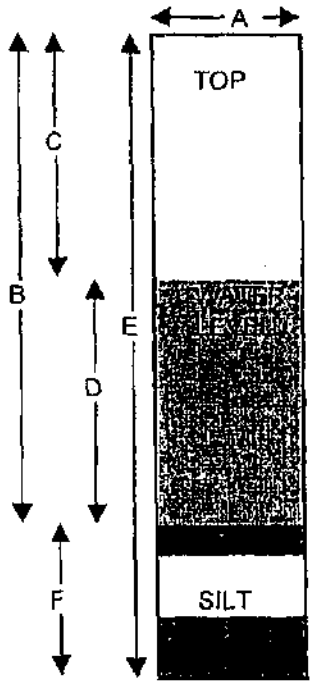
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | 12.54 | feet |
| C. | Depth to Water | 6.13 | feet |
| D. | Length of Water Column (calculated) | 6.41 | feet |
| | Conversion Factor | X.16 | ---- |
| | Well Volume (calculated) | 1.0256 | gallons |
| | No. of Volumes to be Evacuated | x3 | ---- |
| | Total Volume to be Evacuated | 3.0768 | gallons |
| | Actual Volume Evacuated | 3 | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 9:12 AM | 11:27 AM |
| EH | N/A | N/A |
| Temperature | N/A | N/A |
| pH | 8.84 | 8.62 |
| Specific Cond. | 594 | 650 |
| Turbidity | N/A | N/A |
| Dissolved Oxygen | N/A | N/A |
| Appearance | cloudy | sl. Cloudy |
| Weather: | 35 f, sun | 35 f, sun |

Observations:

% Recharge:

| | | |
|---|---|---|
| Initial Depth to Water | 6.13 | feet |
| Recharge Depth to Water | 6.37 | feet |
| 2nd water column height | 96.23 | % |
| 1st water column height | | |

| | | |
|---|---|---|
| Elevation(Top of Casing) | N/A | feet |
| G.W. Elevation= | N/A | feet |

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Justin Gibson

Signature: Justin Gibson

FOIL208575

Upstate Laboratories, Inc. Ground water Field Log File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Semi-Annual**

Well ID.: **B-401**

Unit ID No. (enter by lab)

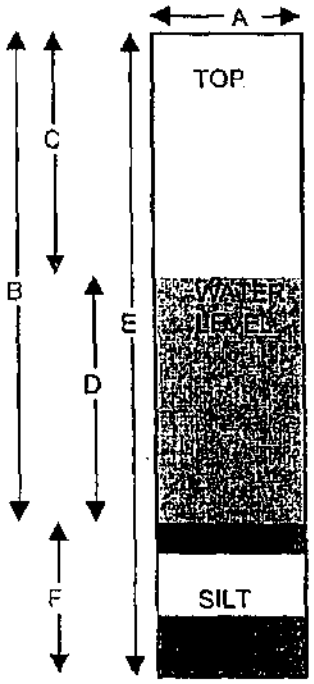
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | 13.03 | feet |
| C. | Depth to Water | 5.21 | feet |
| D. | Length of Water Column (calculated) | 7.82 | feet |
| | Conversion Factor | X.16 | ----- |
| | Well Volume (calculated) | 1.2512 | gallons |
| | No. of Volumes to be Evacuated | x3 | ----- |
| | Total Volume to be Evacuated | 3.7536 | gallons |
| | Actual Volume Evacuated | 4 | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 9:00 AM | 11:20 AM |
| EH | N/A | N/A |
| Temperature | N/A | N/A |
| pH | 8.59 | 8.32 |
| Specific Cond. | 713 | 691 |
| Turbidity | N/A | N/A |
| Dissolved Oxygen | N/A | N/A |
| Appearance | sl. Cloudy | clear |
| Weather: | 35 f, sun | 35 f, sun |

Observations:

% Recharge:

| | | |
|---|---|---|
| Initial Depth to Water | 5.21 | feet |
| Recharge Depth to Water | 5.73 | feet |
| 2nd water column height | 90.92 | % |
| 1st water column height | | |
| Elevation(Top of Casing) | N/A | feet |
| G.W. Elevation= | N/A | feet |

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Justin Gibson

Signature: Justin Gibson

FOIL208576

Upstate Laboratories, Inc. Ground water Field Log File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Semi-Annual**

Well ID.: **B-402R**

FOIL ID No. (enter pvlab):

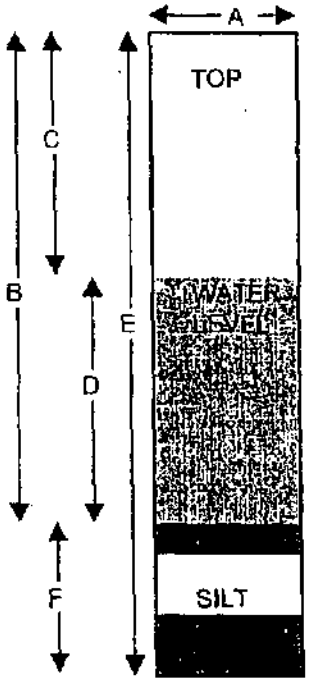
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | 12.24 | feet |
| C. | Depth to Water | 2.47 | feet |
| D. | Length of Water Column (calculated) | 9.77 | feet |
| | Conversion Factor | X.16 | ----- |
| | Well Volume (calculated) | 1.56 | gallons |
| | No. of Volumes to be Evacuated | x3 | ----- |
| | Total Volume to be Evacuated | 4.68 | gallons |
| | Actual Volume Evacuated | 4.5 | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 9:32 AM | 11:47 AM |
| EH | N/A | N/A |
| Temperature | N/A | N/A |
| pH | 7.98 | 8.13 |
| Specific Cond. | 1543 | 1470 |
| Turbidity | N/A | N/A |
| Dissolved Oxygen | N/A | N/A |
| Appearance | cloudy | cloudy |
| Weather: | 35 f, sun | 35 f, sun |
| Observations: | DUPE | |

% Recharge:

| | | |
|---|---|---|
| Initial Depth to Water | 2.47 | feet |
| Recharge Depth to Water | 2.68 | feet |
| 2nd water column height | 92.16 | % |
| 1st water column height | | |

| | | |
|---|---|---|
| Elevation(Top of Casing) | N/A | feet |
| G.W. Elevation= | N/A | feet |

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Justin Gibson

Signature: Justin Gibson

FOIL208577

Upstate Laboratories, Inc. Ground water Field Log File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Semi-Annual**

Well ID.: **B-403**

LUI ID No. (enter by lab):

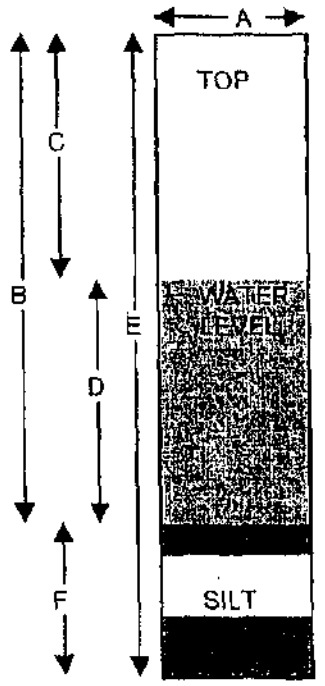
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | 11.26 | feet |
| C. | Depth to Water | 2.97 | feet |
| D. | Length of Water Column (calculated) | 8.29 | feet |
| | Conversion Factor | X.16 | ----- |
| | Well Volume (calculated) | 1.33 | gallons |
| | No. of Volumes to be Evacuated | x3 | ----- |
| | Total Volume to be Evacuated | 3.99 | gallons |
| | Actual Volume Evacuated | 4 | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 9:44 AM | 11:58 AM |
| EH | N/A | N/A |
| Temperature | N/A | N/A |
| pH | 8.78 | 8.61 |
| Specific Cond. | 887 | 913 |
| Turbidity | N/A | N/A |
| Dissolved Oxygen | N/A | N/A |
| Appearance | sl. Cloudy | clear |
| Weather | 35 f, sun | 35 f, sun |

Observations:

% Recharge:

| | | |
|---|---|---|
| Initial Depth to Water | 2.97 | feet |
| Recharge Depth to Water | 3.27 | feet |
| 2nd water column height | 90.82 | % |
| 1st water column height | | |

| | | |
|---|---|---|
| Elevation(Top of Casing) | N/A | feet |
| G.W. Elevation= | N/A | feet |

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Justin Gibson

Signature: Justin Gibson

# Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Semi-Annual**

Well ID.: **B-404**

Sample ID No. (enter by lab):

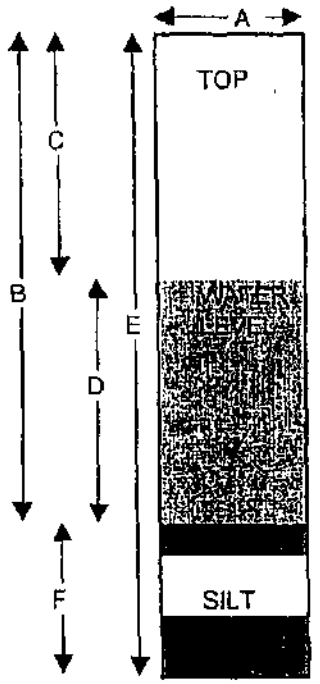
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | 16.14 | feet |
| C. | Depth to Water | 3.5 | feet |
| D. | Length of Water Column (calculated) | 12.64 | feet |
| | Conversion Factor | X.16 | ----- |
| | Well Volume (calculated) | 2.02 | gallons |
| | No. of Volumes to be Evacuated | x3 | ----- |
| | Total Volume to be Evacuated | 6.06 | gallons |
| | Actual Volume Evacuated | 6 | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 9:20 AM | 11:35 AM |
| EH | N/A | N/A |
| Temperature | N/A | N/A |
| pH | 8.39 | 7.24 |
| Specific Cond. | 331 | 365 |
| Turbidity | N/A | N/A |
| Dissolved Oxygen | N/A | N/A |
| Appearance | orange | cloudy |
| Weather: | 35 f, sun | 35 f, sun |

Observations:

% Recharge:

| | | |
|---|---|---|
| Initial Depth to Water | 3.5 | feet |
| Recharge Depth to Water | 3.68 | feet |
| 2nd water column height | 95.1 | % |
| 1st water column height | | |
| Elevation(Top of Casing) | N/A | feet |
| G.W. Elevation= | N/A | feet |

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Justin Gibson

Signature: Justin Gibson

# Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Semi-Annual**

Well ID: **B-108**

Sample No. (enter by lab)

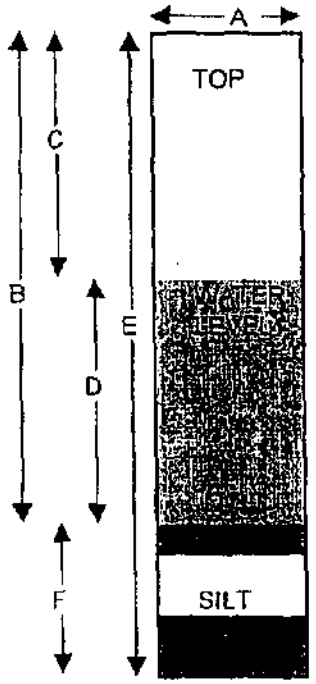
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | 9.85 | feet |
| C. | Depth to Water | 2.85 | feet |
| D. | Length of Water Column (calculated) | 7 | feet |
| | Conversion Factor | X.16 | ----- |
| | Well Volume (calculated) | 1.12 | gallons |
| | No. of Volumes to be Evacuated | x3 | ---- |
| | Total Volume to be Evacuated | 3.36 | gallons |
| | Actual Volume Evacuated | 3 | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 10:36 AM | 12:38 PM |
| EH | N/A | N/A |
| Temperature | N/A | N/A |
| pH | 8.43 | 8.21 |
| Specific Cond. | 255 | 394 |
| Turbidity | N/A | N/A |
| Dissolved Oxygen | N/A | N/A |
| Appearance | cloudy | cloudy |
| Weather: | 35 f, sun | 35 f, sun |

Observations:

% Recharge:

Initial Depth to Water ____ feet

Recharge Depth to Water ____ feet

2nd water column height ____ %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Justin Gibson

Signature: Justin Gibson

# Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Semi-Annual**

Well ID.: **B-107**

UL ID No. (enter by lab)

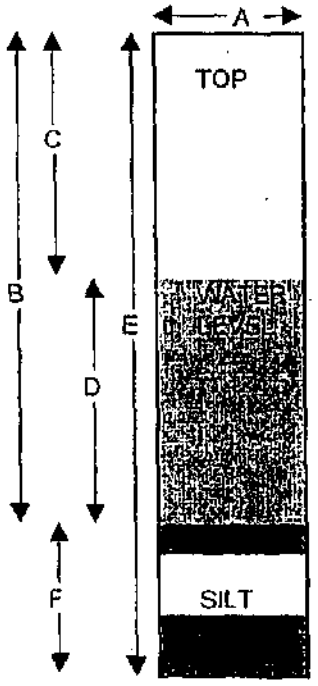
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | | feet |
| C. | Depth to Water | | feet |
| D. | Length of Water Column (calculated) | | feet |
| | Conversion Factor | X.16 | ----- |
| | Well Volume (calculated) | | gallons |
| | No. of Volumes to be Evacuated | x3 | ----- |
| | Total Volume to be Evacuated | | gallons |
| | Actual Volume Evacuated | | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 10:45 AM | |
| EH | | |
| Temperature | | |
| pH | | |
| Specific Cond. | | |
| Turbidity | | |
| Dissolved Oxygen | | |
| Appearance | | |
| Weather: | 35 f, sun | 35 f, sun |

Observations: Could not find well

% Recharge:

Initial Depth to Water _____ feet

Recharge Depth to Water _____ feet

2nd water column height _____ %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Justin Gibson

Signature: Justin Gibson

# Ups..ate Laboratories, Inc.

# Chain of Custody Record

6034 Corporate Drive E. Syracuse New York 13057
Phone (315) 437 0255 Fax (315) 437 1209

ULI Chain of Custody Form

Client: METALICO ~~O&S ENGINEERS~~
Client Contact: SCOTT [redacted], HAZARD EVALUATIONS ~~RORY WOODMANSEE~~
Phone #:
Project #/ Project Name: SEMI-ANNUAL METALICO WELLS
Location (city/state) Address: SYRACUSE, NY

| Sample ID | Date | Time | Matrix | GRAB OR COMP | ULI Internal Use Only U080104 | Number of Containers | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Remarks D-metals Filtered in Lab ASP-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-8R | 12-31-07 | 12:10 | H2O | GRAB | -1 | 3 | X | X | X | | | | | | | X | |
| B281 | | 12:25 | H2O | GRAB | -2 | [illegible] | | | X | X | X | | | | | X | MS/MSD |
| B290 | | 12:17 | H2O | GRAB | -3 | 3 | X | X | X | | | | | | | X | |
| B291 | | 11:27a | H2O | GRAB | -4 | 3 | | | X | | | | | X | X | X | |
| B401 | | 11:20a | H2O | GRAB | -5 | 3 | X | X | X | | | | | | | X | |
| B402 R | | 11:47a | H2O | GRAB | -6 | 3 | X | X | X | | | | | | | X | |
| B403 | | 11:58 | H2O | GRAB | -7 | 3 | X | X | X | | | | | | | X | |
| B404 | | 11:35a | H2O | GRAB | -8 | 3 | X | X | X | | | | | | | X | |
| ~~B107~~ | | 10:45 | H2O | GRAB | | 0 | | | | | | X | X | | | X | could find well no sample taken |
| B108 | | 12:38 | H2O | GRAB | -9 | 2 | | | | | | X | X | | | X | |
| B402 R DUPE | | 11:47a | H2O | GRAB | -10 | 3 | X | X | X | | | | | | | | |
| EQUIPMENT BLANK | | 8:00a | H2O | | -11 | 3 | | | X | X | X | | | | | | |
| FILTER BLANK | | | H2O | | | 0 | | | | | | | | | | | |

| | Parameter and Method | Sample bottle: Type | Size | Preservative |
|---|---|---|---|---|
| 1 | T-PB* | PLASTIC | 500 ML | HNO3 |
| 2 | D-PB* | PLASTIC | 500 ML | ~~HNO3~~ |
| 3 | PCB (EPA 8082) | GLASS | 1000 ML | NONE |
| 4 | T-AS,BA,PB* | PLASTIC | 500 ML | HNO3 |
| 5 | D-AS,BA,PB* | PLASTIC | 500 ML | ~~HNO3~~ |
| 6 | T-BA | PLASTIC | 500 ML | HNO3 |
| 7 | D-BA | PLASTIC | 500 ML | ~~HNO3~~ |
| 8 | T-AS,PB* | PLASTIC | 500 ML | HNO3 |
| 9 | D-AS,PB* | PLASTIC | 500 ML | ~~HNO3~~ |
| 10 | FIELD PH, COND | N/A | N/A | N/A |

Sampled by (Print): Justin Gibson
Company: ULI

| Relinquished by:(sign) | Date | Time | Received by: (sign) |
|---|---|---|---|
| | | | |
| Relinquished by:(sign) | Date | Time | Received by: (sign) |
| | | | |
| Relinquished by:(sign) | Date | Time | Rec'd for Lab by: |
| Justin Gibson | 12/31/07 | 2:20p | K Crump |

Name of Courier:

Syracuse Rochester Buffalo Albany Binghamton Fair Lawn (NJ)

FOIL208582

# Attachment 4

# Data Usability Summary Report

# DATA USABILITY SUMMARY REPORT FOR SEMI-ANNUAL SAMPLING

# METALICO SITE

*Prepared For:*

**Hazard Evaluations**
3836 North Buffalo Road
Orchard Park, NY 14127

*Prepared By:*

**On-Site Technical Services, Inc.**
P.O. Box 54
Wellsville, NY 14895

**March 2008**

# SECTION 1

# DATA USABILITY SUMMARY

Nine groundwater samples, one QC field duplicate sample, and one QC equipment blank sample were collected from the Metalico Site in Syracuse, New York on December 31, 2007. Analytical results from these project samples were validated and reviewed by On-Site Technical Services, Inc. (On-Site) for usability in accordance to the USEPA Region II SOPs for organic and inorganic data review and the July 2005 NYSDEC Analytical Services Protocol (ASP) in order to comply with requirements mandated by the NYSDEC in the production of this data usability summary report (DUSR).

Project samples were collected from the Metalico Site and analyzed for polychlorinated biphenyls (PCBs), total and dissolved lead, total and dissolved arsenic, and/or total and dissolved barium. The analytical laboratory for this project was Upstate Laboratories, Inc. (Upstate). Summaries of noncompliances with validation protocols or the ASP for these analyses are presented within this DUSR. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, and comparability (PARCC) are discussed for each analytical method in Section 2. The laboratory sample data were reviewed for usability with the validated laboratory sample data tabulated and presented in Attachment A. The validated laboratory sample data may be qualified with the following validation flags:

"U" – not detected at the value given,
"UJ" – estimated and not detected at the value given,
"J" – estimated at the value given,
"N" – presumptive evidence at the value given, and
"R" – unusable value.

The final data resulting from data validation are presented in the "Valid Result" and "Valid Qual" columns within this table. The following is a summary of this data validation and final data usage:

**PCB Organic Analysis**

Eight groundwater samples, one QC field duplicate sample, and one QC equipment blank were collected from the site and analyzed by Upstate for PCBs using the USEPA SW-846 8082 analytical method. The reported results for the PCB samples did not require qualification resulting from data validation. Therefore, the reported PCB analytical results were 100% complete (i.e., usable) for the groundwater data presented by Upstate. PARCC requirements were met.



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**Metals Analysis**

Six groundwater samples and one QC field duplicate sample were collected from the site and analyzed by Upstate for total and dissolved lead using the USEPA 200.7 analytical method; one groundwater sample was collected and analyzed for total and dissolved barium using the USEPA 200.7 analytical method; one groundwater sample was collected and analyzed for total and dissolved arsenic and lead using the USEPA 200.7 analytical method; and one groundwater sample and one field QC equipment blank were collected and analyzed for total and dissolved arsenic, barium, and lead using the USEPA 200.7 analytical method. The reported results for the metals samples did not require qualification resulting from data validation. Therefore, the reported metals analytical results were 100% complete (i.e., usable) for the groundwater data presented by Upstate. PARCC requirements were met.



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# SECTION 2

# DATA USABILITY REPORT

A data usability review and validation has been completed for the data packages pertaining to the groundwater samples analyzed by Upstate in sample delivery group (SDG) # MET001 (Upstate project # U0801014). The specific samples contained within this SDG and the specific analyses are presented within the validated laboratory data table in Attachment A.

These samples were collected, properly preserved, shipped under a COC record, and received at Upstate within one day of sampling. All samples were received intact and in good condition at Upstate.

**PCB Organic Analysis**

Eight groundwater samples, one QC field duplicate sample, and one QC equipment blank were analyzed for PCBs. The following items were reviewed for compliancy in the PCB analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- GC instrument performance
- Initial and continuing calibration verifications
- Laboratory method blank and equipment blank contamination
- Field duplicate precision
- Sample result verification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols.

<u>Usability</u>

The PCB data presented by Upstate were 100% complete with all data considered usable and valid.

**Metals Analysis**

Six groundwater samples and one QC field duplicate sample were analyzed for total and dissolved lead; one groundwater sample was analyzed for total and dissolved barium; one groundwater sample was analyzed for total and dissolved arsenic and lead; and one groundwater sample and one field QC equipment blank were analyzed for total and dissolved arsenic, barium, and lead. The following items were reviewed for compliancy in the metals analysis:

- Custody documentation
- Holding times
- Matrix spike (MS) recoveries
- Laboratory control sample (LCS) recoveries
- Laboratory duplicate precision
- Initial and continuing calibration verifications
- Interference check sample
- Initial and continuing calibration blank, laboratory preparation blank, and equipment blank contamination
- ICP serial dilutions
- Field duplicate precision
- Sample result verification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols.

Usability

The metals data presented by Upstate were 100% complete (i.e., usable) with all data considered usable and valid.

# ATTACHMENT A

# VALIDATED LABORATORY DATA

# Validated Laboratory Data
## Metalico Semi-Annual Groundwater Sampling

| Sample ID | Lab ID | Sample Date | Validation Date | Analyte | Result | Qual | Valid Result | Valid Qual | Units | PQL |
|---|---|---|---|---|---|---|---|---|---|---|
| B108 | U0801014-009B | 12/31/2007 | 3/9/2008 | Barium, Dissolved | 303 | | 303 | | µg/L | 50 |
| B108 | U0801014-009A | 12/31/2007 | 3/9/2008 | Barium, Total | 1340 | | 1340 | | µg/L | 50 |
| B108 | U0801014-009A | 12/31/2007 | 3/9/2008 | Conductivity | 394 | | 394 | | umhos/cm | 0 |
| B108 | U0801014-009A | 12/31/2007 | 3/9/2008 | pH | 8.21 | | 8.21 | | SU | 0 |
| B281 | U0801014-002C | 12/31/2007 | 3/9/2008 | Arsenic, Dissolved | 10 | U | 10 | U | µg/L | 10 |
| B281 | U0801014-002C | 12/31/2007 | 3/9/2008 | Barium, Dissolved | 50 | U | 50 | U | µg/L | 50 |
| B281 | U0801014-002C | 12/31/2007 | 3/9/2008 | Lead, Dissolved | 3 | U | 3 | U | µg/L | 3 |
| B281 | U0801014-002B | 12/31/2007 | 3/9/2008 | Arsenic, Total | 64.2 | | 64.2 | | µg/L | 10 |
| B281 | U0801014-002B | 12/31/2007 | 3/9/2008 | Barium, Total | 50 | U | 50 | U | µg/L | 50 |
| B281 | U0801014-002B | 12/31/2007 | 3/9/2008 | Lead, Total | 3 | U | 3 | U | µg/L | 3 |
| B281 | U0801014-002A | 12/31/2007 | 3/9/2008 | Aroclor 1016 | 1 | U | 1 | U | µg/L | 1 |
| B281 | U0801014-002A | 12/31/2007 | 3/9/2008 | Aroclor 1221 | 1 | U | 1 | U | µg/L | 1 |
| B281 | U0801014-002A | 12/31/2007 | 3/9/2008 | Aroclor 1232 | 1 | U | 1 | U | µg/L | 1 |
| B281 | U0801014-002A | 12/31/2007 | 3/9/2008 | Aroclor 1242 | 1 | U | 1 | U | µg/L | 1 |
| B281 | U0801014-002A | 12/31/2007 | 3/9/2008 | Aroclor 1248 | 1 | U | 1 | U | µg/L | 1 |
| B281 | U0801014-002A | 12/31/2007 | 3/9/2008 | Aroclor 1254 | 1 | U | 1 | U | µg/L | 1 |
| B281 | U0801014-002A | 12/31/2007 | 3/9/2008 | Aroclor 1260 | 1 | U | 1 | U | µg/L | 1 |
| B281 | U0801014-002A | 12/31/2007 | 3/9/2008 | Conductivity | 321 | | 321 | | umhos/cm | 0 |
| B281 | U0801014-002A | 12/31/2007 | 3/9/2008 | pH | 8.71 | | 8.71 | | SU | 0 |
| B290 | U0801014-003B | 12/31/2007 | 3/9/2008 | Lead, Dissolved | 3 | U | 3 | U | µg/L | 3 |
| B290 | U0801014-003A | 12/31/2007 | 3/9/2008 | Lead, Total | 18.6 | | 18.6 | | µg/L | 3 |
| B290 | U0801014-003C | 12/31/2007 | 3/9/2008 | Aroclor 1016 | 1 | U | 1 | U | µg/L | 1 |
| B290 | U0801014-003C | 12/31/2007 | 3/9/2008 | Aroclor 1221 | 1 | U | 1 | U | µg/L | 1 |
| B290 | U0801014-003C | 12/31/2007 | 3/9/2008 | Aroclor 1232 | 1 | U | 1 | U | µg/L | 1 |
| B290 | U0801014-003C | 12/31/2007 | 3/9/2008 | Aroclor 1242 | 1 | U | 1 | U | µg/L | 1 |
| B290 | U0801014-003C | 12/31/2007 | 3/9/2008 | Aroclor 1248 | 1 | U | 1 | U | µg/L | 1 |
| B290 | U0801014-003C | 12/31/2007 | 3/9/2008 | Aroclor 1254 | 1 | U | 1 | U | µg/L | 1 |
| B290 | U0801014-003C | 12/31/2007 | 3/9/2008 | Aroclor 1260 | 1 | U | 1 | U | µg/L | 1 |
| B290 | U0801014-003A | 12/31/2007 | 3/9/2008 | Conductivity | 1431 | | 1431 | | umhos/cm | 0 |
| B290 | U0801014-003A | 12/31/2007 | 3/9/2008 | pH | 8.47 | | 8.47 | | SU | 0 |

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# Validated Laboratory Data
## Metalico Semi-Annual Groundwater Sampling

| Sample ID | Lab ID | Sample Date | Validation Date | Analyte | Result | Qual | Valid Result | Valid Qual | Units | PQL |
|---|---|---|---|---|---|---|---|---|---|---|
| B291 | U0801014-004C | 12/31/2007 | 3/9/2008 | Arsenic, Dissolved | 10 | U | 10 | U | µg/L | 10 |
| B291 | U0801014-004C | 12/31/2007 | 3/9/2008 | Lead, Dissolved | 3 | U | 3 | U | µg/L | 3 |
| B291 | U0801014-004B | 12/31/2007 | 3/9/2008 | Arsenic, Total | 10 | U | 10 | U | µg/L | 10 |
| B291 | U0801014-004B | 12/31/2007 | 3/9/2008 | Lead, Total | 3 | U | 3 | U | µg/L | 3 |
| B291 | U0801014-004A | 12/31/2007 | 3/9/2008 | Aroclor 1016 | 1 | U | 1 | U | µg/L | 1 |
| B291 | U0801014-004A | 12/31/2007 | 3/9/2008 | Aroclor 1221 | 1 | U | 1 | U | µg/L | 1 |
| B291 | U0801014-004A | 12/31/2007 | 3/9/2008 | Aroclor 1232 | 1 | U | 1 | U | µg/L | 1 |
| B291 | U0801014-004A | 12/31/2007 | 3/9/2008 | Aroclor 1242 | 1 | U | 1 | U | µg/L | 1 |
| B291 | U0801014-004A | 12/31/2007 | 3/9/2008 | Aroclor 1248 | 1 | U | 1 | U | µg/L | 1 |
| B291 | U0801014-004A | 12/31/2007 | 3/9/2008 | Aroclor 1254 | 1 | U | 1 | U | µg/L | 1 |
| B291 | U0801014-004A | 12/31/2007 | 3/9/2008 | Aroclor 1260 | 1 | U | 1 | U | µg/L | 1 |
| B291 | U0801014-004A | 12/31/2007 | 3/9/2008 | Conductivity | 650 | | 650 | | umhos/cm | 0 |
| B291 | U0801014-004A | 12/31/2007 | 3/9/2008 | pH | 8.62 | | 8.62 | | SU | 0 |
| B401 | U0801014-005B | 12/31/2007 | 3/9/2008 | Lead, Dissolved | 3 | U | 3 | U | µg/L | 3 |
| B401 | U0801014-005A | 12/31/2007 | 3/9/2008 | Lead, Total | 3 | U | 3 | U | µg/L | 3 |
| B401 | U0801014-005C | 12/31/2007 | 3/9/2008 | Aroclor 1016 | 1 | U | 1 | U | µg/L | 1 |
| B401 | U0801014-005C | 12/31/2007 | 3/9/2008 | Aroclor 1221 | 1 | U | 1 | U | µg/L | 1 |
| B401 | U0801014-005C | 12/31/2007 | 3/9/2008 | Aroclor 1232 | 1 | U | 1 | U | µg/L | 1 |
| B401 | U0801014-005C | 12/31/2007 | 3/9/2008 | Aroclor 1242 | 1 | U | 1 | U | µg/L | 1 |
| B401 | U0801014-005C | 12/31/2007 | 3/9/2008 | Aroclor 1248 | 1 | U | 1 | U | µg/L | 1 |
| B401 | U0801014-005C | 12/31/2007 | 3/9/2008 | Aroclor 1254 | 1 | U | 1 | U | µg/L | 1 |
| B401 | U0801014-005C | 12/31/2007 | 3/9/2008 | Aroclor 1260 | 1 | U | 1 | U | µg/L | 1 |
| B401 | U0801014-005A | 12/31/2007 | 3/9/2008 | Conductivity | 691 | | 691 | | umhos/cm | 0 |
| B401 | U0801014-005A | 12/31/2007 | 3/9/2008 | pH | 8.32 | | 8.32 | | SU | 0 |

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# Validated Laboratory Data
## Metalico Semi-Annual Groundwater Sampling

| Sample ID | Lab ID | Sample Date | Validation Date | Analyte | Result | Qual | Valid Result | Valid Qual | Units | PQL |
|---|---|---|---|---|---|---|---|---|---|---|
| B402 | U0801014-006B | 12/31/2007 | 3/9/2008 | Lead, Dissolved | 3 | U | 3 | U | µg/L | 3 |
| B402 | U0801014-006A | 12/31/2007 | 3/9/2008 | Lead, Total | 4.23 | | 4.23 | | µg/L | 3 |
| B402 | U0801014-006C | 12/31/2007 | 3/9/2008 | Aroclor 1016 | 1 | U | 1 | U | µg/L | 1 |
| B402 | U0801014-006C | 12/31/2007 | 3/9/2008 | Aroclor 1221 | 1 | U | 1 | U | µg/L | 1 |
| B402 | U0801014-006C | 12/31/2007 | 3/9/2008 | Aroclor 1232 | 1 | U | 1 | U | µg/L | 1 |
| B402 | U0801014-006C | 12/31/2007 | 3/9/2008 | Aroclor 1242 | 1 | U | 1 | U | µg/L | 1 |
| B402 | U0801014-006C | 12/31/2007 | 3/9/2008 | Aroclor 1248 | 1 | U | 1 | U | µg/L | 1 |
| B402 | U0801014-006C | 12/31/2007 | 3/9/2008 | Aroclor 1254 | 1 | U | 1 | U | µg/L | 1 |
| B402 | U0801014-006C | 12/31/2007 | 3/9/2008 | Aroclor 1260 | 1 | U | 1 | U | µg/L | 1 |
| B402 | U0801014-006A | 12/31/2007 | 3/9/2008 | Conductivity | 1470 | | 1470 | | umhos/cm | 0 |
| B402 | U0801014-006A | 12/31/2007 | 3/9/2008 | pH | 8.13 | | 8.13 | | SU | 0 |
| B402 DUP | U0801014-010B | 12/31/2007 | 3/9/2008 | Lead, Dissolved | 3 | U | 3 | U | µg/L | 3 |
| B402 DUP | U0801014-010A | 12/31/2007 | 3/9/2008 | Lead, Total | 4.29 | | 4.29 | | µg/L | 3 |
| B402 DUP | U0801014-010C | 12/31/2007 | 3/9/2008 | Aroclor 1016 | 1 | U | 1 | U | µg/L | 1 |
| B402 DUP | U0801014-010C | 12/31/2007 | 3/9/2008 | Aroclor 1221 | 1 | U | 1 | U | µg/L | 1 |
| B402 DUP | U0801014-010C | 12/31/2007 | 3/9/2008 | Aroclor 1232 | 1 | U | 1 | U | µg/L | 1 |
| B402 DUP | U0801014-010C | 12/31/2007 | 3/9/2008 | Aroclor 1242 | 1 | U | 1 | U | µg/L | 1 |
| B402 DUP | U0801014-010C | 12/31/2007 | 3/9/2008 | Aroclor 1248 | 1 | U | 1 | U | µg/L | 1 |
| B402 DUP | U0801014-010C | 12/31/2007 | 3/9/2008 | Aroclor 1254 | 1 | U | 1 | U | µg/L | 1 |
| B402 DUP | U0801014-010C | 12/31/2007 | 3/9/2008 | Aroclor 1260 | 1 | U | 1 | U | µg/L | 1 |
| B403 | U0801014-007B | 12/31/2007 | 3/9/2008 | Lead, Dissolved | 3 | U | 3 | U | µg/L | 3 |
| B403 | U0801014-007A | 12/31/2007 | 3/9/2008 | Lead, Total | 3 | U | 3 | U | µg/L | 3 |
| B403 | U0801014-007C | 12/31/2007 | 3/9/2008 | Aroclor 1016 | 1 | U | 1 | U | µg/L | 1 |
| B403 | U0801014-007C | 12/31/2007 | 3/9/2008 | Aroclor 1221 | 1 | U | 1 | U | µg/L | 1 |
| B403 | U0801014-007C | 12/31/2007 | 3/9/2008 | Aroclor 1232 | 1 | U | 1 | U | µg/L | 1 |
| B403 | U0801014-007C | 12/31/2007 | 3/9/2008 | Aroclor 1242 | 1 | U | 1 | U | µg/L | 1 |
| B403 | U0801014-007C | 12/31/2007 | 3/9/2008 | Aroclor 1248 | 1 | U | 1 | U | µg/L | 1 |
| B403 | U0801014-007C | 12/31/2007 | 3/9/2008 | Aroclor 1254 | 1 | U | 1 | U | µg/L | 1 |
| B403 | U0801014-007C | 12/31/2007 | 3/9/2008 | Aroclor 1260 | 1 | U | 1 | U | µg/L | 1 |
| B403 | U0801014-007A | 12/31/2007 | 3/9/2008 | Conductivity | 913 | | 913 | | umhos/cm | 0 |
| B403 | U0801014-007A | 12/31/2007 | 3/9/2008 | pH | 8.61 | | 8.61 | | SU | 0 |

FOIL208592

# Validated Laboratory Data
## Metalico Semi-Annual Groundwater Sampling

| Sample ID | Lab ID | Sample Date | Validation Date | Analyte | Result | Qual | Valid Result | Valid Qual | Units | PQL |
|---|---|---|---|---|---|---|---|---|---|---|
| B404 | U0801014-008B | 12/31/2007 | 3/9/2008 | Lead, Dissolved | 3 | U | 3 | U | µg/L | 3 |
| B404 | U0801014-008A | 12/31/2007 | 3/9/2008 | Lead, Total | 3 | U | 3 | U | µg/L | 3 |
| B404 | U0801014-008C | 12/31/2007 | 3/9/2008 | Aroclor 1016 | 1 | U | 1 | U | µg/L | 1 |
| B404 | U0801014-008C | 12/31/2007 | 3/9/2008 | Aroclor 1221 | 1 | U | 1 | U | µg/L | 1 |
| B404 | U0801014-008C | 12/31/2007 | 3/9/2008 | Aroclor 1232 | 1 | U | 1 | U | µg/L | 1 |
| B404 | U0801014-008C | 12/31/2007 | 3/9/2008 | Aroclor 1242 | 1 | U | 1 | U | µg/L | 1 |
| B404 | U0801014-008C | 12/31/2007 | 3/9/2008 | Aroclor 1248 | 1 | U | 1 | U | µg/L | 1 |
| B404 | U0801014-008C | 12/31/2007 | 3/9/2008 | Aroclor 1254 | 1 | U | 1 | U | µg/L | 1 |
| B404 | U0801014-008C | 12/31/2007 | 3/9/2008 | Aroclor 1260 | 1 | U | 1 | U | µg/L | 1 |
| B404 | U0801014-008A | 12/31/2007 | 3/9/2008 | Conductivity | 365 | | 365 | | umhos/cm | 0 |
| B404 | U0801014-008A | 12/31/2007 | 3/9/2008 | pH | 7.24 | | 7.24 | | SU | 0 |
| Equipment | U0801014-011C | 12/31/2007 | 3/9/2008 | Arsenic, Dissolved | 10 | U | 10 | U | µg/L | 10 |
| Equipment | U0801014-011C | 12/31/2007 | 3/9/2008 | Barium, Dissolved | 50 | U | 50 | U | µg/L | 50 |
| Equipment | U0801014-011C | 12/31/2007 | 3/9/2008 | Lead, Dissolved | 3 | U | 3 | U | µg/L | 3 |
| Equipment | U0801014-011B | 12/31/2007 | 3/9/2008 | Arsenic, Total | 10 | U | 10 | U | µg/L | 10 |
| Equipment | U0801014-011B | 12/31/2007 | 3/9/2008 | Barium, Total | 50 | U | 50 | U | µg/L | 50 |
| Equipment | U0801014-011B | 12/31/2007 | 3/9/2008 | Lead, Total | 3 | U | 3 | U | µg/L | 3 |
| Equipment | U0801014-011A | 12/31/2007 | 3/9/2008 | Aroclor 1016 | 1 | U | 1 | U | µg/L | 1 |
| Equipment | U0801014-011A | 12/31/2007 | 3/9/2008 | Aroclor 1221 | 1 | U | 1 | U | µg/L | 1 |
| Equipment | U0801014-011A | 12/31/2007 | 3/9/2008 | Aroclor 1232 | 1 | U | 1 | U | µg/L | 1 |
| Equipment | U0801014-011A | 12/31/2007 | 3/9/2008 | Aroclor 1242 | 1 | U | 1 | U | µg/L | 1 |
| Equipment | U0801014-011A | 12/31/2007 | 3/9/2008 | Aroclor 1248 | 1 | U | 1 | U | µg/L | 1 |
| Equipment | U0801014-011A | 12/31/2007 | 3/9/2008 | Aroclor 1254 | 1 | U | 1 | U | µg/L | 1 |
| Equipment | U0801014-011A | 12/31/2007 | 3/9/2008 | Aroclor 1260 | 1 | U | 1 | U | µg/L | 1 |
| MW-8R | U0801014-001B | 12/31/2007 | 3/9/2008 | Lead, Dissolved | 3 | U | 3 | U | µg/L | 3 |
| MW-8R | U0801014-001A | 12/31/2007 | 3/9/2008 | Lead, Total | 3 | U | 3 | U | µg/L | 3 |
| MW-8R | U0801014-001C | 12/31/2007 | 3/9/2008 | Aroclor 1016 | 1 | U | 1 | U | µg/L | 1 |
| MW-8R | U0801014-001C | 12/31/2007 | 3/9/2008 | Aroclor 1221 | 1 | U | 1 | U | µg/L | 1 |
| MW-8R | U0801014-001C | 12/31/2007 | 3/9/2008 | Aroclor 1232 | 1 | U | 1 | U | µg/L | 1 |
| MW-8R | U0801014-001C | 12/31/2007 | 3/9/2008 | Aroclor 1242 | 1 | U | 1 | U | µg/L | 1 |
| MW-8R | U0801014-001C | 12/31/2007 | 3/9/2008 | Aroclor 1248 | 1 | U | 1 | U | µg/L | 1 |
| MW-8R | U0801014-001C | 12/31/2007 | 3/9/2008 | Aroclor 1254 | 1 | U | 1 | U | µg/L | 1 |
| MW-8R | U0801014-001C | 12/31/2007 | 3/9/2008 | Aroclor 1260 | 1 | U | 1 | U | µg/L | 1 |
| MW-8R | U0801014-001A | 12/31/2007 | 3/9/2008 | Conductivity | 1113 | | 1113 | | umhos/cm | 0 |
| MW-8R | U0801014-001A | 12/31/2007 | 3/9/2008 | pH | 8.47 | | 8.47 | | SU | 0 |

# Upstate Laboratories, Inc.

6034 Corporate Drive
East Syracuse, New York 13057-1017

# Sample Data Summary Package

**Case Narrative, Summary of Test Results, Summary of QC Results, Chain of Custody Documentation and Field Data**
**Volume 1 of 3**

**SDG No. MET001**

## Project:

Semi-Annual Metalico Wells

## Prepared for:

Dennis R. Flanagan, General Manager
Metalico Syracuse, Inc.
PO Box 88
East Syracuse, NY 13057



## Samples Collected:

December 31, 2007

New York Lab Code 10170

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

Upstate Laboratories Inc
6034 Corporate Drive
East Syracuse, New York 13057

| Customer Sample Code | Laboratory Sample Code | Analytical Requirements | | | | | |
|---|---|---|---|---|---|---|---|
| | | VOA GC/MS Method # | BNA GC/MS Method # | Pest PCBs Method # | Herb Method # | Metals and Cyanide | Wet Chemistry (Other) |
| MW-8R | U0801014-001 | - | - | 8082 | - | T-Pb & D-Pb | - |
| B281 | U0801014-002 | - | - | 8082 | - | T-As, T-Ba, T-Pb & D-As, D-Ba, D-Pb | - |
| B281MS | U0801014-002MS | - | - | 8082 | - | T-As, T-Ba, T-Pb & D-As, D-Ba, D-Pb | - |
| B281MSD | U0801014-002MSD | - | - | 8082 | - | - | - |
| B281DUPE | U0801014-002DP | - | - | - | - | T-As, T-Ba, T-Pb & D-As, D-Ba, D-Pb | - |
| B290 | U0801014-003 | - | - | 8082 | - | T-Pb & D-Pb | - |
| B291 | U0801014-004 | - | - | 8082 | - | T-As, T-Pb & D-As, D-Pb | - |
| B401 | U0801014-005 | - | - | 8082 | - | T-Pb & D-Pb | - |
| B402 R | U0801014-006 | - | - | 8082 | - | T-Pb & D-Pb | - |
| B403 | U0801014-007 | - | - | 8082 | - | T-Pb & D-Pb | - |
| B404 | U0801014-008 | - | - | 8082 | - | T-Pb & D-Pb | - |
| B108 | U0801014-009 | - | - | - | - | T-Ba & D-Ba | - |
| B402 R DUPE | U0801014-010 | - | - | 8082 | - | T-Pb & D-Pb | - |
| Equipment Blank | U0801014-011 | - | - | 8082 | - | T-As, T-Ba, T-Pb & D-As, D-Ba, D-Pb | - |

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FOIL208595

# Narrative

## 1.0 Summary

This report presents the sample test results and quality control results for nine water sample locations collected from the Semi-Annual Metalico Wells Project. The samples were analyzed for parameters listed in Section 3.0, below.

This report is divided into two packages and three volumes. The Sample Data Summary Package (Volume 1) presents a summary of the test results and quality control data. This abbreviated format is useful to engineers and environmental scientists. The Sample Data Package (Volumes 2-3) is a comprehensive report containing instrument raw data. It is formatted for validation by an independent third party.

## 2.0 Chain of Custody

The samples were collected by Upstate Laboratories, Inc. personnel on December 31, 2007 and hand delivered to Upstate Laboratories, Inc., Syracuse, New York. The Chain of Custody documentation and field data are copied in Volumes 1 and 2.

## 3.0 Methodology

The analyses were performed using test methods developed by the USEPA and reorganized by the NYSDEC in the Analytical Services Protocol (ASP). The specific method numbers are:

| Parameter | Method | Reference |
|---|---|---|
| PCB (Aroclors) | 8082 | (1) |
| Arsenic | 200.7 | (1) |
| Barium | 200.7 | (1) |
| Lead | 200.7 | (1) |

(1) New York State Department of Environmental Conservation Analytical Services Protocol (NYSDEC ASP), 7/05 Revision

## 4.0 Quality Control

Quality control data includes method blanks, reference samples, matrix spikes, matrix spike duplicates, duplicates, and surrogate recoveries. The association of QC data with sample data is made through the use of the Test Code and the Analysis Date found on both the final report pages and the QC summary pages.

## 5.0 Internal Validation

### *PCB (Aroclors)*

Holding Time : Criteria were satisfied.

Calibration : Criteria were satisfied.

Method Blanks : Criteria were satisfied.

Reference Sample : Criteria were satisfied.

MS/MSD : Criteria were satisfied.

Surrogates : Criteria were satisfied.

The total number of pages in this Data Package is: _____.

***Metals Data***

| | |
|---|---|
| Holding Time | : Criteria were satisfied. |
| Calibration | : The CCV5 recovery of 110.4% for Lead was slightly greater than QC acceptance limits for analytical sequence R30978. All other criteria were satisfied. |
| Method Blanks | : Criteria were satisfied. |
| Reference Sample | : Criteria were satisfied. |
| Matrix Spike | : Criteria were satisfied. |
| Duplicates | : Criteria were satisfied. |

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and/or in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Approved Anthony J. Scala

Anthony J. Scala, Director



QCMET001B.doc

Sample Data



Upstate Laboratories, Inc.

1A
PCB ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.
MW-8R

| | | | |
|---|---|---|---|
| Lab Name: | Upsate Labs Inc. | Contract: | METALICO |
| Lab Code: | 10170 | Case No: | |
| SAS No: | | SDG No. | MET-1 |
| Matrix: (soil/water) | Water | Lab Sample ID: | 801014-1 |
| Sample wt/vol: | 1000 (g/mL) ml | Lab File ID: | GA4147 |
| % Solids | | Date Recieved: | 12/31/07 |
| Extraction:. (SepF/Cont/Sonc) | Sonc | Date Extracted: | 1/3/08 |
| Concentrated Extract Volume: | 10 | Date Analyzed: | 1/23/08 |
| Injection Volume: | 1 | Time Analyzed: | 2:12 AM |
| GPC Cleanup: (Y/N) | N | Dilution Factor: | 1 |
| | | Sulfur Cleanup: | Y |

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 1.0 | U |
| 11104-28-2 | Aroclor 1221 | 1.0 | U |
| 11141-16-5 | Aroclor 1232 | 1.0 | U |
| 53469-21-9 | Aroclor 1242 | 1.0 | U |
| 12672-29-6 | Aroclor 1248 | 1.0 | U |
| 11097-69-1 | Aroclor 1254 | 1.0 | U |
| 11096-82-5 | Aroclor 1260 | 1.0 | U |

FORM I-CLP-PEST

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

MW-8R

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): WATER Lab Sample ID: U0801014-001

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7439-92-1 | Lead | 3.0 | U | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:



Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

MW-8RDissolved

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): Lab Sample ID: U0801014-001

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7439-92-1 | Lead | 3.0 | U | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

-8-

Comments:

FORM I - IN

ILM04.1

FOIL208601

1A
PCB ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.
B281

| | | | |
|---|---|---|---|
| Lab Name: | Upsate Labs Inc. | Contract: | METALICO |
| Lab Code: | 10170 | Case No: | |
| SAS No: | | SDG No. | MET-1 |
| Matrix: (soil/water) | Water | Lab Sample ID: | 801014-2 |
| Sample wt/vol: | 1000 (g/mL) ml | Lab File ID: | GA4147 |
| % Solids | | Date Recieved: | 12/31/07 |
| Extraction: (SepF/Cont/Sonc) | Sonc | Date Extracted: | 1/3/08 |
| Concentrated Extract Volume: | 10 | Date Analyzed: | 1/23/08 |
| Injection Volume: | 1 | Time Analyzed: | 2:48 AM |
| GPC Cleanup: (Y/N) | N | Dilution Factor: | 1 |
| | | Sulfur Cleanup: | Y |

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 1.0 | U |
| 11104-28-2 | Aroclor 1221 | 1.0 | U |
| 11141-16-5 | Aroclor 1232 | 1.0 | U |
| 53469-21-9 | Aroclor 1242 | 1.0 | U |
| 12672-29-6 | Aroclor 1248 | 1.0 | U |
| 11097-69-1 | Aroclor 1254 | 1.0 | U |
| 11096-82-5 | Aroclor 1260 | 1.0 | U |

FORM I-CLP-PEST

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

B281

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): Lab Sample ID: U0801014-002

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 64.2 | | | P |
| 7440-39-3 | Barium | 50.0 | U | | P |
| 7439-92-1 | Lead | 3.0 | U | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: YES



Comments:

Light Orange Sediment

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

B281Dissolved

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): Lab Sample ID: U0801014-002

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 10.0 | U | | P |
| 7440-39-3 | Barium | 50.0 | U | | P |
| 7439-92-1 | Lead | 3.0 | U | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:



Comments:

1A
PCB ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.
B290

| | | | | | |
|---|---|---|---|---|---|
| Lab Name: | Upsate Labs Inc. | | Contract: METALICO | | |
| Lab Code: | 10170 | Case No: | | SAS No: | SDG No. MET-1 |
| Matrix: (soil/water) | Water | | | Lab Sample ID: | 801014-3 |
| Sample wt/vol: | 1000 (g/mL) | ml | | Lab File ID: | GA4147 |
| % Solids | | | | Date Recieved: | 12/31/07 |
| Extraction: (SepF/Cont/Sonc) | Sonc | | | Date Extracted: | 1/3/08 |
| Concentrated Extract Volume: | 10 | | | Date Analyzed: | 1/23/08 |
| Injection Volume: | 1 | | | Time Analyzed: | 4:37 AM |
| GPC Cleanup: (Y/N) | N | | | Dilution Factor: | 1 |
| | | | | Sulfur Cleanup: | Y |

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 1.0 | U |
| 11104-28-2 | Aroclor 1221 | 1.0 | U |
| 11141-16-5 | Aroclor 1232 | 1.0 | U |
| 53469-21-9 | Aroclor 1242 | 1.0 | U |
| 12672-29-6 | Aroclor 1248 | 1.0 | U |
| 11097-69-1 | Aroclor 1254 | 1.0 | U |
| 11096-82-5 | Aroclor 1260 | 1.0 | U |

FORM I-CLP-PEST

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

B290

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): WATER Lab Sample ID: U0801014-003

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7439-92-1 | Lead | 18.6 | | | P |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts: YES



Comments:

Light Orange Sediment

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

B290Dissolved

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): Lab Sample ID: U0801014-003

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7439-92-1 | Lead | 3.0 | U | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:



Comments:

1A

PCB ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.
B291

Lab Name: Upsate Labs Inc. Contract: METALICO

Lab Code: 10170 Case No: SAS No: SDG No. MET-1

Matrix: (soil/water) Water Lab Sample ID: 801014-4

Sample wt/vol: 1000 (g/mL) ml Lab File ID: GA4147

% Solids Date Recieved: 12/31/07

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 1/3/08

Concentrated Extract Volume: 10 Date Analyzed: 1/23/08

Injection Volume: 1 Time Analyzed: 5:13 AM

GPC Cleanup: (Y/N) N Dilution Factor: 1

Sulfur Cleanup: Y

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 1.0 | U |
| 11104-28-2 | Aroclor 1221 | 1.0 | U |
| 11141-16-5 | Aroclor 1232 | 1.0 | U |
| 53469-21-9 | Aroclor 1242 | 1.0 | U |
| 12672-29-6 | Aroclor 1248 | 1.0 | U |
| 11097-69-1 | Aroclor 1254 | 1.0 | U |
| 11096-82-5 | Aroclor 1260 | 1.0 | U |

FORM I-CLP-PEST

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

B291

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): WATER Lab Sample ID: U0801014-004

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 10.0 | U | | P |
| 7439-92-1 | Lead | 3.0 | U | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: COLORLESS Clarity After: CLEAR Artifacts: _____



Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

B291Dissolved

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): Lab Sample ID: U0801014-004

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 10.0 | U | | P |
| 7439-92-1 | Lead | 3.0 | U | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:



Comments:

1A
PCB ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.
B401

| | | | |
|---|---|---|---|
| Lab Name: | Upsate Labs Inc. | Contract: | METALICO |
| Lab Code: | 10170 | Case No: | |
| SAS No: | | SDG No. | MET-1 |
| Matrix: (soil/water) | Water | Lab Sample ID: | 801014-5 |
| Sample wt/vol: | 1000 (g/mL) ml | Lab File ID: | GA4147 |
| % Solids | | Date Recieved: | 12/31/07 |
| Extraction: (SepF/Cont/Sonc) | Sonc | Date Extracted: | 1/3/08 |
| Concentrated Extract Volume: | 10 | Date Analyzed: | 1/23/08 |
| Injection Volume: | 1 | Time Analyzed: | 5:49 AM |
| GPC Cleanup: (Y/N) | N | Dilution Factor: | 1 |
| | | Sulfur Cleanup: | Y |

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 1.0 | U |
| 11104-28-2 | Aroclor 1221 | 1.0 | U |
| 11141-16-5 | Aroclor 1232 | 1.0 | U |
| 53469-21-9 | Aroclor 1242 | 1.0 | U |
| 12672-29-6 | Aroclor 1248 | 1.0 | U |
| 11097-69-1 | Aroclor 1254 | 1.0 | U |
| 11096-82-5 | Aroclor 1260 | 1.0 | U |

FORM I-CLP-PEST

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

B401

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): WATER Lab Sample ID: U0801014-005

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7439-92-1 | Lead | 3.0 | U | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: YES



Comments:

Bugs

FORM I - IN

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

B401Dissolved

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): Lab Sample ID: U0801014-005

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7439-92-1 | Lead | 3.0 | U | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

-20-

Comments:

1A
PCB ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.
B402

Lab Name: Upsate Labs Inc. Contract: METALICO

Lab Code: 10170 Case No: SAS No: SDG No. MET-1

Matrix: (soil/water) Water Lab Sample ID: B01014-6

Sample wt/vol: 1000 (g/mL) ml Lab File ID: GA4147

% Solids Date Recieved: 12/31/07

Extraction: (SepF/Cont/Sonc) Sonc Date Extracted: 1/3/08

Concentrated Extract Volume: 10 Date Analyzed: 1/23/08

Injection Volume: 1 Time Analyzed: 6:25 AM

GPC Cleanup: (Y/N) N Dilution Factor: 1

Sulfur Cleanup: Y

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 1.0 | U |
| 11104-28-2 | Aroclor 1221 | 1.0 | U |
| 11141-16-5 | Aroclor 1232 | 1.0 | U |
| 53469-21-9 | Aroclor 1242 | 1.0 | U |
| 12672-29-6 | Aroclor 1248 | 1.0 | U |
| 11097-69-1 | Aroclor 1254 | 1.0 | U |
| 11096-82-5 | Aroclor 1260 | 1.0 | U |

FORM I-CLP-PEST

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

B402

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): WATER Lab Sample ID: U0801014-006

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7439-92-1 | Lead | 4.2 | | | P |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: YES



Comments:

Light Brown Sediment

FORM I - IN

ILM04.1

FOIL208615

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

B402Dissolved

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): Lab Sample ID: U0801014-006

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7439-92-1 | Lead | 3.0 | U | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:



Comments:

FORM I - IN

ILM04.1

FOIL208616

1A
PCB ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.
B403

| | | | |
|---|---|---|---|
| Lab Name: | Upsate Labs Inc. | Contract: | METALICO |
| Lab Code: | 10170 | Case No: | |
| SAS No: | | SDG No. | MET-1 |
| Matrix: (soil/water) | Water | Lab Sample ID: | 801014-7 |
| Sample wt/vol: | 1000 (g/mL) ml | Lab File ID: | GA4147 |
| % Solids | | Date Recieved: | 12/31/07 |
| Extraction: (SepF/Cont/Sonc) | Sonc | Date Extracted: | 1/3/08 |
| Concentrated Extract Volume: | 10 | Date Analyzed: | 1/23/08 |
| Injection Volume: | 1 | Time Analyzed: | 7:01 AM |
| GPC Cleanup: (Y/N) | N | Dilution Factor: | 1 |
| | | Sulfur Cleanup: | Y |

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 1.0 | U |
| 11104-28-2 | Aroclor 1221 | 1.0 | U |
| 11141-16-5 | Aroclor 1232 | 1.0 | U |
| 53469-21-9 | Aroclor 1242 | 1.0 | U |
| 12672-29-6 | Aroclor 1248 | 1.0 | U |
| 11097-69-1 | Aroclor 1254 | 1.0 | U |
| 11096-82-5 | Aroclor 1260 | 1.0 | U |

FORM I-CLP-PEST

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

B403

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): WATER Lab Sample ID: U0801014-007

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7439-92-1 | Lead | 3.0 | U | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: YES



Comments:

Light Brown Sediment

FORM I - IN

ILM04.1

FOIL208618

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

B403Dissolved

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): Lab Sample ID: U0801014-007

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7439-92-1 | Lead | 3.0 | U | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:



Comments:

1A
PCB ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.
B404

| | | | |
|---|---|---|---|
| Lab Name: | Upsate Labs Inc. | Contract: | METALICO |
| Lab Code: | 10170 | Case No: | |
| SAS No: | | SDG No. | MET-1 |
| Matrix: (soil/water) | Water | Lab Sample ID: | 801014-8 |
| Sample wt/vol: | 1000 (g/mL) ml | Lab File ID: | GA4147 |
| % Solids | | Date Recieved: | 12/31/07 |
| Extraction: (SepF/Cont/Sonc) | Sonc | Date Extracted: | 1/3/08 |
| Concentrated Extract Volume: | 10 | Date Analyzed: | 1/23/08 |
| Injection Volume: | 1 | Time Analyzed: | 7:37 AM |
| GPC Cleanup: (Y/N) | N | Dilution Factor: | 1 |
| | | Sulfur Cleanup: | Y |

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 1.0 | U |
| 11104-28-2 | Aroclor 1221 | 1.0 | U |
| 11141-16-5 | Aroclor 1232 | 1.0 | U |
| 53469-21-9 | Aroclor 1242 | 1.0 | U |
| 12672-29-6 | Aroclor 1248 | 1.0 | U |
| 11097-69-1 | Aroclor 1254 | 1.0 | U |
| 11096-82-5 | Aroclor 1260 | 1.0 | U |

FORM I-CLP-PEST

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

B404

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): WATER Lab Sample ID: U0801014-008

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7439-92-1 | Lead | 3.0 | U | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:



Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

B404Dissolved

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): Lab Sample ID: U0801014-008

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7439-92-1 | Lead | 3.0 | U | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:



Comments:

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

B108

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): WATER Lab Sample ID: U0801014-009

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-39-3 | Barium | 1340 | | | P |

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts: YES

-30-

Comments:
Light Brown Sediment

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

B108Dissolved

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): Lab Sample ID: U0801014-009

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-39-3 | Barium | 303 | | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:



Comments:

1A
PCB ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.
B402DP

| | | | |
|---|---|---|---|
| Lab Name: | Upsate Labs Inc. | Contract: | METALICO |
| Lab Code: | 10170 | Case No: | |
| SAS No: | | SDG No. | MET-1 |
| Matrix: (soil/water) | Water | Lab Sample ID: | 801014-10 |
| Sample wt/vol: | 1000 (g/mL) ml | Lab File ID: | GA4147 |
| % Solids | | Date Recieved: | 12/31/07 |
| Extraction: (SepF/Cont/Sonc) | Sonc | Date Extracted: | 1/3/08 |
| Concentrated Extract Volume: | 10 | Date Analyzed: | 1/23/08 |
| Injection Volume: | 1 | Time Analyzed: | 8:13 AM |
| GPC Cleanup: (Y/N) | N | Dilution Factor: | 1 |
| | | Sulfur Cleanup: | Y |

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 1.0 | U |
| 11104-28-2 | Aroclor 1221 | 1.0 | U |
| 11141-16-5 | Aroclor 1232 | 1.0 | U |
| 53469-21-9 | Aroclor 1242 | 1.0 | U |
| 12672-29-6 | Aroclor 1248 | 1.0 | U |
| 11097-69-1 | Aroclor 1254 | 1.0 | U |
| 11096-82-5 | Aroclor 1260 | 1.0 | U |

FORM I-CLP-PEST

U.S. EPA - CLP

1
INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID
B402 Dupe

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): WATER Lab Sample ID: U0801014-010

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7439-92-1 | Lead | 4.3 | | | P |

Color Before: YELLOW Clarity Before: CLEAR Texture:
Color After: COLORLESS Clarity After: CLEAR Artifacts: YES



Comments:
Light Brown Sediment

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

B402 DupeDissolved

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): Lab Sample ID: U0801014-010

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7439-92-1 | Lead | 3.0 | U | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:



Comments:

1A
PCB ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.
EQUIP BLK

| | | | | | |
|---|---|---|---|---|---|
| Lab Name: | Upsate Labs Inc. | | Contract: METALICO | | |
| Lab Code: | 10170 | Case No: | | SAS No: | SDG No. MET-1 |
| Matrix: (soil/water) | Water | | | Lab Sample ID: | 801014-11 |
| Sample wt/vol: | 1000 (g/mL) | ml | | Lab File ID: | GA4147 |
| % Solids | | | | Date Recieved: | 12/31/07 |
| Extraction: (SepF/Cont/Sonc) | Sonc | | | Date Extracted: | 1/3/08 |
| Concentrated Extract Volume: | 10 | | | Date Analyzed: | 1/23/08 |
| Injection Volume: | 1 | | | Time Analyzed: | 8:49 AM |
| GPC Cleanup: (Y/N) | N | | | Dilution Factor: | 1 |
| | | | | Sulfur Cleanup: | Y |

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 1.0 | U |
| 11104-28-2 | Aroclor 1221 | 1.0 | U |
| 11141-16-5 | Aroclor 1232 | 1.0 | U |
| 53469-21-9 | Aroclor 1242 | 1.0 | U |
| 12672-29-6 | Aroclor 1248 | 1.0 | U |
| 11097-69-1 | Aroclor 1254 | 1.0 | U |
| 11096-82-5 | Aroclor 1260 | 1.0 | U |

FORM I-CLP-PEST

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

Equipment Blank

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): WATER Lab Sample ID: U0801014-011

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 10.0 | U | | P |
| 7440-39-3 | Barium | 50.0 | U | | P |
| 7439-92-1 | Lead | 3.0 | U | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:



Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMP ID

Equipment BlankDissolved

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): Lab Sample ID: U0801014-011

Level (low/med): LOW Date Received: 12/31/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-38-2 | Arsenic | 10.0 | U | | P |
| 7440-39-3 | Barium | 50.0 | U | | P |
| 7439-92-1 | Lead | 3.0 | U | | P |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:



Comments:

# Quality Control Data



Upstate Laboratories, Inc.

2E
SURROGATE RECOVERY

Lab Name: Upstate Labs Inc.

Lab Code: 10170 Case No.: _____ SAS No. _____ SDG No.: MET-1

GC Column(1): DB-XLB ID: 0.32 GC Column (2): DB-35MS ID: 0.32 (mm)

| | NYSDEC SAMPLE NO. | TCX 1 % REC | # | TCX 2 % REC | # | DCB 1 % REC | DCB 2 % REC | # | OTHER (1) | OTHER (2) | TOT OUT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | PBW | 65% | | 70% | | 85% | 85% | | | | 0 |
| 02 | LCSW | 70% | | 75% | | 80% | 90% | | | | 0 |
| 03 | MW-8R | 75% | | 75% | | 90% | 90% | | | | 0 |
| 04 | B281 | 75% | | 80% | | 130% | 130% | | | | 0 |
| 05 | B281MS | 70% | | 75% | | 80% | 90% | | | | 0 |
| 06 | B281MSD | 75% | | 75% | | 80% | 90% | | | | 0 |
| 07 | B290 | 70% | | 75% | | 80% | 65% | | | | 0 |
| 08 | B291 | 75% | | 75% | | 95% | 90% | | | | 0 |
| 09 | B401 | 75% | | 75% | | 95% | 95% | | | | 0 |
| 10 | B402 | 110% | | 95% | | 90% | 90% | | | | 0 |
| 11 | B403 | 70% | | 80% | | 130% | 95% | | | | 0 |
| 12 | B404 | 75% | | 75% | | 90% | 90% | | | | 0 |
| 13 | B402DP | 125% | | 95% | | 85% | 85% | | | | 0 |
| 14 | EQUIP BLK | 70% | | 75% | | 65% | 65% | | | | 0 |
| 15 | | | | | | | | | | | 0 |
| 16 | | | | | | | | | | | 0 |
| 17 | | | | | | | | | | | 0 |
| 18 | | | | | | | | | | | 0 |
| 19 | | | | | | | | | | | 0 |
| 20 | | | | | | | | | | | 0 |
| 21 | | | | | | | | | | | 0 |
| 22 | | | | | | | | | | | 0 |
| 23 | | | | | | | | | | | 0 |
| 24 | | | | | | | | | | | 0 |
| 25 | | | | | | | | | | | 0 |
| 26 | | | | | | | | | | | 0 |
| 27 | | | | | | | | | | | 0 |
| 28 | | | | | | | | | | | 0 |
| 29 | | | | | | | | | | | 0 |
| 30 | | | | | | | | | | | 0 |

ADVISORY QC LIMITS

TCX = Tetrachloro-m-xylene (30 - 150)
DCB = Decachlorobiphenyl (30 - 150)

# Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

MS/MSD1
PCB MS/MSD RECOVERY

NYSDEC SAMPLE NO.
B281

| | | | | | |
|---|---|---|---|---|---|
| Lab Name: | Upsate Labs Inc. | Contract: | METALICO | | |
| Lab Code: | 10170 | Case No: | | SAS No: | SDG No. MET-1 |
| Matrix: (soil/water) | Water | | | Lab Sample ID: | 801014-2 |
| Sample wt/vol: | 1000 (g/mL) | ml | | Lab File ID: | GA4147 |
| % Solids | | | | Date Recieved: | 12/31/07 |
| Extraction: (SepF/Cont/Sonc) | Sonc | | | Date Extracted: | 1/3/08 |
| Concentrated Extract Volume: | 10 | | | Date Analyzed: | 1/23/08 |
| Injection Volume: | 1 | | | Time Analyzed: | 2:48 AM |
| GPC Cleanup: (Y/N) | N | | | Dilution Factor: | 1 |
| | | | | Sulfur Cleanup: | Y |

| PARAMETER | SPIKE ADDED | SAMPLE CONC. | MS CONC | MS % REC | CONTROL LIMITS 1) 2) |
|---|---|---|---|---|---|
| Aroclor 1016 | | | | | 50 - 114 |
| Aroclor 1221 | | | | | 15 - 178 |
| Aroclor 1232 | | | | | 10 - 215 |
| Aroclor 1242 | | | | | 39 - 150 |
| Aroclor 1248 | | | | | 38 - 158 |
| Aroclor 1254 | | | | | 29 - 131 |
| Aroclor 1260 | 2 | < | 1.90 | 95% | 8 - 127 |

| PARAMETER | SPIKE | MSD CONC | MSD % REC | RPD | CONTROL LIMITS 1) 2) |
|---|---|---|---|---|---|
| Aroclor 1016 | | | | | 50 - 114 |
| Aroclor 1221 | | | | | 15 - 178 |
| Aroclor 1232 | | | | | 10 - 215 |
| Aroclor 1242 | | | | | 39 - 150 |
| Aroclor 1248 | | | | | 38 - 158 |
| Aroclor 1254 | | | | | 29 - 131 |
| Aroclor 1260 | 2 | 2 | 100% | 5% | 8 - 127 |

SPIKE WAS DILUTED OUT DUE TO THE HIGH CONCENTRATION OF 1260

Footnotes:

1) QC Acceptance Criteria, Table 3, Method 8080, "Test Methods for Evaluating Solid Waste" SW-846, 3RD ED., Revision 1, November 1990
2) QC Acceptance Criteria, Table 3, Method 608; Guidelines Establishing for Analysis of Pollutants Under the Clean Water Act, 40 CFR Part 2
3) Flag recoveries outside of control limits with an "*"

Form III-CLP-PCB-1

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

CLIENT SAMP ID

B281S

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| Analyte | Control Limit %R | Spiked Sample Result (SSR) | C | Sample Result (SR) | C | Spike Added (SA) | %R | Q | M |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 75-125 | 2001.2413 | | 64.1610 | | 2000.00 | 96.9 | | P |
| Barium | 75-125 | 1847.7889 | | 50.0000 | U | 2000.00 | 92.4 | | P |
| Lead | 75-125 | 446.4691 | | 3.0000 | U | 500.00 | 89.3 | | P |



Comments:

FORM V (Part 1) - IN ILM04.1

U.S. EPA - CLP

5A
SPIKE SAMPLE RECOVERY

CLIENT SAMP ID

B281DissolvedS

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| Analyte | Control Limit %R | Spiked Sample Result (SSR) | C | Sample Result (SR) | C | Spike Added (SA) | %R | Q | M |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 75-125 | 1936.4004 | | 10.0000 | U | 2000.00 | 96.8 | | P |
| Barium | 75-125 | 1878.3341 | | 50.0000 | U | 2000.00 | 93.9 | | P |
| Lead | 75-125 | 452.7848 | | 3.0000 | U | 500.00 | 90.6 | | P |



Comments:

U.S. EPA - CLP

6
DUPLICATES

CLIENT SAMP ID

B281

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): TOTAL Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|---|---|---|---|---|---|---|---|---|
| Arsenic | | 64.1610 | | 63.0963 | | 1.7 | | P |
| Barium | | 0.0000 | U | 0.0000 | U | | | P |
| Lead | | 0.0000 | U | 0.0000 | U | | | P |

U.S. EPA - CLP

6
DUPLICATES

CLIENT SAMP ID

B281Dissolved

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): DISSOLVED Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|---|---|---|---|---|---|---|---|---|
| Arsenic | | 0.0000 | U | 0.0000 | U | | | P |
| Barium | | 0.0000 | U | 0.0000 | U | | | P |
| Lead | | 0.0000 | U | 0.0000 | U | | | P |

RS1

PCB REFERENCE SAMPLE RECOVERY

NYSDEC SAMPLE NO.
LCSW

| | | | |
|---|---|---|---|
| Lab Name: | Upsate Labs Inc. | Contract: | METALICO |
| Lab Code: | 10170 | Case No: | |
| SAS No: | | SDG No. | MET-1 |
| Matrix: (soil/water) | Water | Lab Sample ID: | LCS-6225 |
| Sample wt/vol: | 1000 (g/mL) ml | Lab File ID: | GA4147 |
| % Solids | | Date Received: | 1/3/08 |
| Extraction: (SepF/Cont/Sonc) | Sonc | Date Extracted: | 1/3/08 |
| Concentrated Extract Volume: | 10 | Date Analyzed: | 1/23/08 |
| Injection Volume: | 1 | Time Analyzed: | 1:36 AM |
| GPC Cleanup: (Y/N) | N | Dilution Factor: | 1 |
| | | Sulfur Cleanup: | Y |

| PARAMETER | SPIKE ADDED | RS CONC. | RS % REC | CONTROL LIMITS 1) 2) |
|---|---|---|---|---|
| Aroclor 1016 | | | | |
| Aroclor 1221 | | | | |
| Aroclor 1232 | | | | |
| Aroclor 1242 | | | | |
| Aroclor 1248 | | | | |
| Aroclor 1254 | | | | |
| Aroclor 1260 | 2 | 2.00 | 100% | |

1) Table 3, Method 8080, "Test Methods for Evaluating Solid Waste", SW-846, 3rd ED., Revision 1, November 1990

2) Table 3, Method 608, Guidelines Establishing Test Procedures for Analysis of Pollutants Under the Clean Water Act, 40 CFR Part 136

U.S. EPA - CLP

7
LABORATORY CONTROL SAMPLE

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Solid LCS Source: ERA

Aqueous LCS Source: CPI

| Analyte | Aqueous (ug/L) True | Found | %R | Solid (mg/kg) True | Found | C | Limits | | %R |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 1000.0 | 997.01 | 99.7 | | | | | | |
| Barium | 12000.0 | 11649.95 | 97.1 | | | | | | |
| Lead | 1000.0 | 990.61 | 99.1 | | | | | | |

U.S. EPA - CLP

7
LABORATORY CONTROL SAMPLE

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Solid LCS Source: ERA

Aqueous LCS Source: CPI

| Analyte | Aqueous (ug/L) True | Found | %R | Solid (mg/kg) True | Found | C | Limits | | %R |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 1000.0 | 997.02 | 99.7 | | | | | | |
| Barium | 12000.0 | 11746.74 | 97.9 | | | | | | |
| Lead | 1000.0 | 1003.90 | 100.4 | | | | | | |

4 C

## METHOD BLANK SUMMARY

NYSDEC SAMPLE NO
PBW

Lab Name: Upstate Labs Inc. Contract: METALICO

Lab Code: 10170 Case No: _____ SAS No: _____ SDG No: MET-1

| | | | |
|---|---|---|---|
| Lab Sample ID: | MB-12603 | Lab File ID: | GA4147 |
| Matrix: (Soil/water) | Water | Extraction: | SONC. |
| Sulfur Cleanup: (Y/N) | N | Date Extracted: | 1/3/08 |
| Date Analyzed (1): | 1/23/08 | Date Analyzed (2): | 1/23/08 |
| Time Analyzed (1): | 1:00 AM | Time Analyzed (2): | 1:36 AM |
| Instrument ID (1): | 65 | Instrument ID (2): | 65 |
| GC Column (1): | DB-XLB | GC Column (2): | DB-35MS |

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, AND MSB.

| | NYSDEC SAMPLE NO | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | PBW | MB-12603 | GA4147 | 01:00 |
| 02 | LCSW | LCS-12603 | GA4147 | 01:36 |
| 03 | MW-8R | 801014-1 | GA4147 | 02:12 |
| 04 | B281 | 801014-2 | GA4147 | 02:48 |
| 05 | B281MS | 801014-2MS | GA4147 | 03:24 |
| 06 | B281MSD | 801014-2MSD | GA4147 | 04:00 |
| 07 | B290 | 801014-3 | GA4147 | 04:37 |
| 08 | B291 | 801014-4 | GA4147 | 05:13 |
| 09 | B401 | 801014-5 | GA4147 | 05:49 |
| 10 | B402 | 801014-6 | GA4147 | 06:25 |
| 11 | B403 | 801014-7 | GA4147 | 07:01 |
| 12 | B404 | 801014-8 | GA4147 | 07:37 |
| 13 | B402DP | 801014-10 | GA4147 | 08:13 |
| 14 | EQUIP BLK | 801014-11 | GA4147 | 08:49 |
| 15 | | | | |
| 16 | | | | |
| 17 | | | | |
| 18 | | | | |
| 19 | | | | |
| 20 | | | | |
| 21 | | | | |
| 22 | | | | |
| 23 | | | | |
| 24 | | | | |
| 25 | | | | |
| 26 | | | | |
| 27 | | | | |
| 28 | | | | |

Comments: _____

1A
PCB ANALYSIS DATA SHEET

NYSDEC SAMPLE NO.
PBW

| | | | |
|---|---|---|---|
| Lab Name: | Upsate Labs Inc. | Contract: | METALICO |
| Lab Code: | 10170 | Case No: | |
| SAS No: | | SDG No. | MET-1 |
| Matrix: (soil/water) | Water | Lab Sample ID: | MB-12603 |
| Sample wt/vol: | 1000 (g/mL) ml | Lab File ID: | GA4147 |
| % Solids | | Date Recieved: | 1/3/08 |
| Extraction: (SepF/Cont/Sonc) | Sonc | Date Extracted: | 1/3/08 |
| Concentrated Extract Volume: | 10 | Date Analyzed: | 1/23/08 |
| Injection Volume: | 1 | Time Analyzed: | 1:00 AM |
| GPC Cleanup: (Y/N) | N | Dilution Factor: | 1 |
| | | Sulfur Cleanup: | Y |

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | ug/l | Q |
|---|---|---|---|
| 12674-11-2 | Aroclor 1016 | 1.0 | U |
| 11104-28-2 | Aroclor 1221 | 1.0 | U |
| 11141-16-5 | Aroclor 1232 | 1.0 | U |
| 53469-21-9 | Aroclor 1242 | 1.0 | U |
| 12672-29-6 | Aroclor 1248 | 1.0 | U |
| 11097-69-1 | Aroclor 1254 | 1.0 | U |
| 11096-82-5 | Aroclor 1260 | 1.0 | U |

FORM I-CLP-PEST

U.S. EPA - CLP

3
BLANKS

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | RunNo: 30978 Continuing Calibration Blank (ug/L) 1 | C | 2 | C | 3 | C | MB-12661 Prepa-ration Blank | C | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 10.000 | U | P |
| Barium | 50.0 | U | 50.0 | U | 50.0 | U | 50.0 | U | 50.000 | U | P |
| Lead | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.000 | U | P |

U.S. EPA - CLP

3
BLANKS

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | RunNo: 30978 Continuing Calibration Blank (ug/L) 1 | C | 2 | C | 3 | C | MB-12661 Preparation Blank | C | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | | | 10.0 | U | | | | | | | P |
| Barium | | | 50.0 | U | | | | | | | P |
| Lead | | | 3.0 | U | | | | | | | P |

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3
BLANKS

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | RunNo: 30978 Continuing Calibration Blank (ug/L) 1 | C | 2 | C | 3 | C | MB-12674 Prepa-ration Blank | C | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 10.0 | U | 10.0 | U | 10.0 | U | 10.0 | U | 10.000 | U | P |
| Barium | 50.0 | U | 50.0 | U | 50.0 | U | 50.0 | U | 50.000 | U | P |
| Lead | 3.0 | U | 3.0 | U | 3.0 | U | 3.0 | U | 3.000 | U | P |

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3
BLANKS

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

| Analyte | Initial Calib. Blank (ug/L) | C | RunNo: 30978 Continuing Calibration Blank (ug/L) 1 | C | 2 | C | 3 | C | MB-12674 Preparation Blank | C | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | | | 10.0 | U | | | | | | | P |
| Barium | | | 50.0 | U | | | | | | | P |
| Lead | | | 3.0 | U | | | | | | | P |

U.S. EPA - CLP

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

ICP ID Number: 58.0 ICS Source: SPEX

Concentration Units: ug/L

| Analyte | True Sol. A | True Sol. AB | Initial Found Sol. A | Initial Found Sol. AB | Initial Found %R | Final Found Sol. A | Final Found Sol. AB | Final Found %R |
|---|---|---|---|---|---|---|---|---|
| Arsenic | | | | | | | | |
| Barium | | 500 | | 500.8 | 100.2 | | 513.9 | 102.8 |
| Lead | | 1000 | | 922.0 | 92.2 | | 951.0 | 95.1 |

# PCB

## UPSTATE LABORATORIES, INC.
## CONTINUING CALIBRATION

S44-0-68 Revised 11/95

Instrument No. INST 65
Column DB-XLB ID 0.32
Initial Calbr. Date: 11/6/06

Continuing Calibr. Date 1/23/08 Time 12:24 AM

| Aroclor | Peak | RT Windows RT | From | To | Actual (ppb) | Found (ppb) | % Diff. |
|---|---|---|---|---|---|---|---|
| 1016 | 1 | 8.09 | | | 250 | 244 | 2% |
| | 2 | 12.44 | | | | | |
| | 3 | 13.12 | | | | | |
| | 4 | | | | | | |
| | 5 | | | | | | |
| | 6 | | | | | | |
| | 7 | | | | | | |
| | 8 | | | | | | |
| | 9 | | | | | | |
| | 10 | | | | | | |

Continuing Calibr. Date 1/23/08 Time 10:01 AM

| Aroclor | Peak | RT Windows | From | To | Actual (ppb) | Found (ppb) | % Diff. |
|---|---|---|---|---|---|---|---|
| 1016 | 1 | 8.09 | | | 250 | 245 | 2% |
| | 2 | 12.45 | | | | | |
| | 3 | 13.12 | | | | | |
| | 4 | | | | | | |
| | 5 | | | | | | |
| | 6 | | | | | | |
| | 7 | | | | | | |
| | 8 | | | | | | |
| | 9 | | | | | | |
| | 10 | | | | | | |

Criteria:
Methods 8080 & 8081
a new 5 point curve is prepared.

EPA Method 608 The laboratory referance sample (RS) serves as a continuing calibration standard.

# PCB

## UPSTATE LABORATORIES, INC.
## CONTINUING CALIBRATION

S44-0-66 Revised 11/95

Instrument No. INST 65
Column DB-35MS ID 0.32
Initial Calibr. Date: 11/6/06

Continuing Calibr. Date 1/23/08 Time 1:00 AM

| Aroclor | Peak | RT Windows RT | From | To | Actual (ppb) | Found (ppb) | % Diff. |
|---|---|---|---|---|---|---|---|
| 1016 | 1 | 7.55 | | | 250 | 224 | 10% |
| | 2 | 8.92 | | | | | |
| | 3 | 12.58 | | | | | |
| | 4 | | | | | | |
| | 5 | | | | | | |
| | 6 | | | | | | |
| | 7 | | | | | | |
| | 8 | | | | | | |
| | 9 | | | | | | |
| | 10 | | | | | | |

Continuing Calibr. Date 1/23/08 Time 10:37 AM

| Aroclor | Peak | RT Windows | From | To | Actual (ppb) | Found (ppb) | % Diff. |
|---|---|---|---|---|---|---|---|
| 1016 | 1 | 7.55 | | | 250 | 222 | 11% |
| | 2 | 8.91 | | | | | |
| | 3 | 12.58 | | | | | |
| | 4 | | | | | | |
| | 5 | | | | | | |
| | 6 | | | | | | |
| | 7 | | | | | | |
| | 8 | | | | | | |
| | 9 | | | | | | |
| | 10 | | | | | | |



**Criteria:**
Methods 8080 & 8081
a new 5 point curve is prepared.

EPA Method 608 The laboratory referance sample (RS) serves as a continuing calibration standard.

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Initial Calibration Verification Source: SPEX

Continuing Calibration Verification Source: CPI

Concentration Units: ug/L

| Analyte | Initial Calibration True | Initial Calibration Found | Initial Calibration %R(1) | Continuing Calibration True | Continuing Calibration Found | Continuing Calibration %R(1) | Continuing Calibration Found | Continuing Calibration %R(1) | M |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 500.0 | 523.28 | 104.7 | 2000.0 | 2120.37 | 106.0 | 2118.20 | 105.9 | P |
| Barium | 10000.0 | 10755.65 | 107.6 | 16000.0 | 16246.22 | 101.5 | 15985.60 | 99.9 | P |
| Lead | 250.0 | 264.12 | 105.6 | 2000.0 | 2155.43 | 107.8 | 2109.98 | 105.5 | P |

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Initial Calibration Verification Source: SPEX

Continuing Calibration Verification Source: CPI

Concentration Units: ug/L

| Analyte | Initial Calibration True | Initial Calibration Found | Initial Calibration %R(1) | Continuing Calibration True | Continuing Calibration Found | Continuing Calibration %R(1) | Continuing Calibration Found | Continuing Calibration %R(1) | | M |
|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | | | | 2000.0 | 2152.43 | 107.6 | 2187.42 | 109.4 | | P |
| Barium | | | | 16000.0 | 16428.88 | 102.7 | 16652.36 | 104.1 | | P |
| Lead | | | | 2000.0 | 2190.95 | 109.5 | 2207.51 | 110.4 | | P |

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

AA CRDL Standard Source: CPI

ICP CRDL Standard Source: SPEX

Concentration Units: ug/L

| Analyte | CRDL Standard for AA | | | CRDL Standard for ICP | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Initial | | | Final | |
| | True | Found | %R | True | Found | %R | Found | %R |
| Arsenic | | | | 20.0 | 20.41 | 102.0 | 23.02 | 115.1 |
| Barium | | | | 0.0 | -0.24 | 0.0 | -0.82 | 0.0 |
| Lead | | | | 6.0 | 4.45 | 74.1 | 5.17 | 86.2 |

U.S. EPA - CLP

9

ICP SERIAL DILUTIONS

| B402 Dupe |
|---|

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Lead | 4.29 | | 15.00 | U | 0.0 | | P |

U.S. EPA - CLP

9
ICP SERIAL DILUTIONS

| B402 DupeDissolved |
|---|

Lab Name: Upstate Laboratories, Inc. Contract:

Lab Code: 10170 Case No. SAS No.: SDG No.: MET001

Matrix (soil/water): Level (low/med): LOW

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Lead | 3.00 | U | 15.00 | U | | | P |

# Chain of Custody



Upstate Laboratories, Inc.

# Upstate Laboratories, Inc. — Chain of Custody Record

6034 Corporate Drive E. Syracuse New York 13057
Phone (315) 437 0255 Fax (315) 437 1209

Client: METALICO
Project # / Project Name: SEMI-ANNUAL METALICO WELLS
Client Contact: JOHN MARANTZ
Phone #:
Location (city/state) Address: SYRACUSE, NY

| Sample ID | Date | Time | Matrix | GRAB OR COMP | ULI Internal Use Only | Number of Containers | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | Remarks: D-metals Filtered at Lab ASP-B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW-8R | 12/31/07 | 12:10 P | H2O | GRAB | | 3 | X | X | X | | | | | | | X | |
| B281 | | 12:25 P | H2O | GRAB | | 3 | | | X | X | X | | | | | X | MS/MSD |
| B290 | | 12:17 P | H2O | GRAB | | 3 | X | X | X | | | | | | | X | |
| B291 | | 11:27 A | H2O | GRAB | | 3 | | | X | | | | | X | X | X | |
| B401 | | 11:20 A | H2O | GRAB | | 3 | X | X | X | | | | | | | X | |
| B402 | | 11:47 A | H2O | GRAB | | 3 | X | X | X | | | | | | | X | |
| B403 | | 11:55 A | H2O | GRAB | | 3 | X | X | X | | | | | | | X | |
| B404 | | 11:35 A | H2O | GRAB | | 3 | X | X | X | | | | | | | X | |
| B107 | | 10:45 A | H2O | GRAB | | 2 | | | | | | X | X | | | X | No sample / unable to find well |
| B108 | | 12:38 P | H2O | GRAB | | 2 | | | | | | X | X | | | X | |
| B402 DUPE | | 11:47 A | H2O | GRAB | | 3 | X | X | X | | | | | | | | |
| EQUIPMENT BLANK | | 8:00 A | H2O | | | 3 | | | X | X | X | | | | | | |
| FILTER BLANK | | | H2O | | | 1 | | | | | | | | | | | |

| | Parameter and Method | Sample bottle: Type | Size | Preservative |
|---|---|---|---|---|
| 1 | T-PB* | PLASTIC | 500 ML | HNO3 |
| 2 | D-PB* | PLASTIC | 500 ML | ~~HNO3~~ |
| 3 | PCB (EPA 8082) | GLASS | 1000 ML | NONE |
| 4 | T-AS,BA,PB* | PLASTIC | 500 ML | HNO3 |
| 5 | D-AS,BA,PB* | PLASTIC | 500 ML | ~~HNO3~~ |
| 6 | T-BA | PLASTIC | 500 ML | HNO3 |
| 7 | D-BA | PLASTIC | 500 ML | HNO3 |
| 8 | T-AS,PB* | PLASTIC | 500 ML | HNO3 |
| 9 | D-AS,PB* | PLASTIC | 500 ML | ~~HNO3~~ |
| 10 | FIELD PH, COND | N/A | N/A | N/A |

Sampled by (Print): Justin Gibson
Company: ULI

| Relinquished by: (sign) | Date | Time | Received by: (sign) |
|---|---|---|---|
| | | | |
| Relinquished by: (sign) | Date | Time | Received by: (sign) |
| | | | |
| Relinquished by: (sign) | Date | Time | Rec'd for Lab by: |
| Justin Gibson | 12/31/07 | 2:20 P | |

Name of Courier:

Syracuse Rochester Buffalo Albany Binghamton Fair Lawn (NJ)

FOIL208656

# Upstate Laboratories, Inc.
## Internal Laboratory Sign–Out Log

SR–10–03 Revised 3/98

Project: CES Eng.
SDG No.:
ULI ID No.: UC80101U

| ULI Number or Range of ULI Numbers | Date/Time Sample(s) Taken | Purpose | S.Custodian Initials | Analyst Initials | Date/Time Sample(s) Returned | S.Custodian Initials | Analyst Initials |
|---|---|---|---|---|---|---|---|
| 1-11B | 1/8/08 9Am | 200.7 tpr | | SBB | 4pm | | SBB |
| UB, 2C, 3B, 4C, 5-10B, 11C | 1/9/08 7Am | 200.7 DPR | | SBB | 12pm | | SBB |

Upstate Laboratories, Inc.

## Sample Receipt Checklist

Client Name C & S ENGINEERS, P.C. | Date and Time Receive 12/31/2007

Work Order Numbe U0801014 | Received by TC

Checklist completed by K Crump (Signature) 1/2/08 (Date) | Reviewed by PH (Initials) 1/3/08 (Date)

Matrix: | Carrier name: ULI

| | | | |
|---|---|---|---|
| Shipping container/cooler in good condition? | Yes ☑ | No ☐ | Not Presen ☐ |
| Custody seals intact on shippping container/cooler? | Yes ☐ | No ☐ | Not Presen ☑ |
| Custody seals intact on sample bottles? | Yes ☐ | No ☐ | Not Presen ☑ |
| Chain of custody present? | Yes ☑ | No ☐ | |
| Chain of custody signed when relinquished and received? | Yes ☑ | No ☐ | |
| Chain of custody agrees with sample labels? | Yes ☑ | No ☐ | |
| Samples in proper container/bottle? | Yes ☑ | No ☐ | |
| Sample containers intact? | Yes ☑ | No ☐ | |
| Sufficient sample volume for indicated test? | Yes ☑ | No ☐ | |
| All samples received within holding time? | Yes ☑ | No ☐ | |
| Container/Temp Blank temperature in compliance? | Yes ☑ | No ☐ | |
| Water - VOA vials have zero headspace? | No VOA vials submitted ☑ | Yes ☐ | No ☐ |
| Water - pH acceptable upon receipt? | Yes ☑ | No ☐ | |

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

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FOIL208658

# Field Data



Upstate Laboratories, Inc.

# Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Thompson Corners**

Well ID.: **MW-8R**

Lab ID No. (enter by lab):

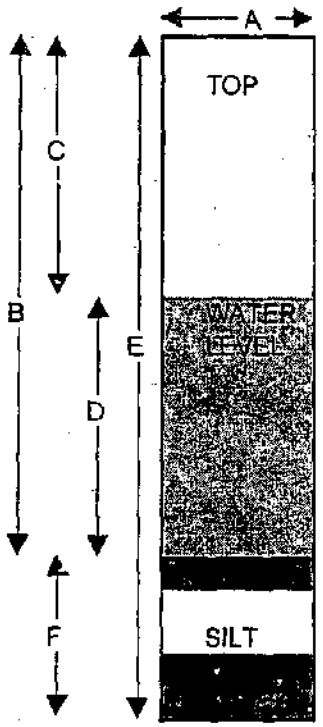
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | 10 | feet |
| C. | Depth to Water | 2.85 | feet |
| D. | Length of Water Column (calculated) | 7.15 | feet |
| | Conversion Factor | X.16 | ----- |
| | Well Volume (calculated) | 1.14 | gallons |
| | No. of Volumes to be Evacuated | x3 | ----- |
| | Total Volume to be Evacuated | 3.42 | gallons |
| | Actual Volume Evacuated | 3.5 | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 9:58 AM | 12:10 PM |
| Eh | N/A | N/A |
| Temperature | N/A | N/A |
| pH | 8.69 | 8.47 |
| Specific Cond. | 1039 | 1113 |
| Turbidity | N/A | N/A |
| Dissolved Oxygen | N/A | N/A |
| Appearance | cloudy | cloudy |
| Weather: | 35 f, sun | 35 f, sun |
| Observations: | | |

% Recharge:

| | | |
|---|---|---|
| Initial Depth to Water | 2.85 | feet |
| Recharge Depth to Water | 2.98 | feet |
| 2nd water column height | 95.63 | % |
| 1st water column height | | |
| Elevation(Top of Casing) | N/A | feet |
| G.W. Elevation= | N/A | feet |

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Justin Gibson

Signature: Justin Gibson

Upstate Laboratories, Inc. Ground water Field Log File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Semi-Annual**

Well ID.: **B-281**

(Lab ID No. (enter by lab))

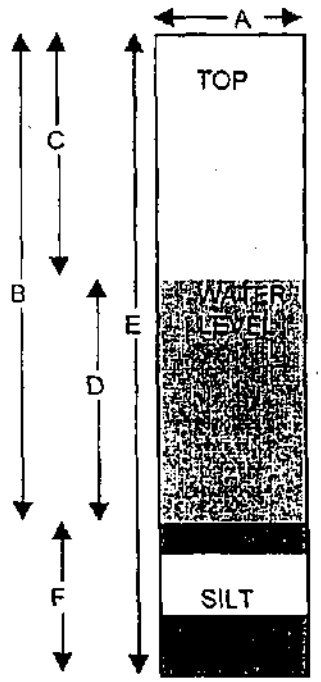
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | 13.03 | feet |
| C. | Depth to Water | 6.73 | feet |
| D. | Length of Water Column (calculated) | 6.3 | feet |
| | Conversion Factor | X.16 | ------ |
| | Well Volume (calculated) | 1.008 | gallons |
| | No. of Volumes to be Evacuated | x3 | ------ |
| | Total Volume to be Evacuated | 3.024 | gallons |
| | Actual Volume Evacuated | 3 | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 10:22 AM | 12:25 PM |
| EH | N/A | N/A |
| Temperature | N/A | N/A |
| pH | 9.03 | 8.71 |
| Specific Cond. | 310 | 321 |
| Turbidity | N/A | N/A |
| Dissolved Oxygen | N/A | N/A |
| Appearance | sl. Orange | cloudy |
| Weather: | 35 f, sun | 35 f, sun |
| Observations: | MSD | |

% Recharge:

| | | |
|---|---|---|
| Initial Depth to Water | 6.73 | feet |
| Recharge Depth to Water | 6.91 | feet |
| 2nd water column height | 97.4 | % |
| 1st water column height | | |
| Elevation(Top of Casing) | N/A | feet |
| G.W. Elevation= | N/A | feet |

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Justin Gibson

Signature: Justin Gibson

FOIL208661

Upstate Laboratories, Inc. Ground water Field Log File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Thompson Corners**

Well ID.: **B-290**

ULID No. (enter by lab)

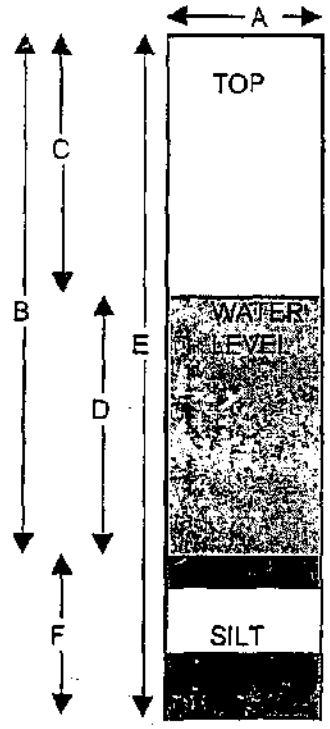
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | 10.26 | feet |
| C. | Depth to Water | 4.84 | feet |
| D. | Length of Water Column (calculated) | 5.42 | feet |
| | Conversion Factor | X.16 | ----- |
| | Well Volume (calculated) | 0.87 | gallons |
| | No. of Volumes to be Evacuated | x3 | ----- |
| | Total Volume to be Evacuated | 2.61 | gallons |
| | Actual Volume Evacuated | 2.5 | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 10:11 AM | 12:17 PM |
| pH | N/A | N/A |
| Temperature | N/A | N/A |
| pH | 8.54 | 8.47 |
| Specific Cond. | 1439 | 1431 |
| Turbidity | N/A | N/A |
| Dissolved Oxygen | N/A | N/A |
| Appearance | orange | orange |

% Recharge:

| | | |
|---|---|---|
| Initial Depth to Water | 4.84 | feet |
| Recharge Depth to Water | 5.02 | feet |
| 2nd water column height | 96.41 | % |
| 1st water column height | | |

| | | |
|---|---|---|
| Elevation(Top of Casing) | N/A | feet |
| G.W. Elevation= | N/A | feet |

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 35 f, sun 35 f, sun

Observations:

Sampler: Justin Gibson

Signature: Justin Gibson

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FOIL208662

# Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Thompson Corners**

Well ID.: **B-291**

ULID No. (enter by lab)

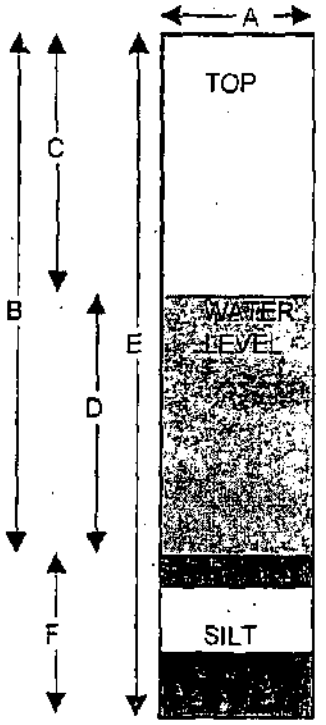
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | 12.54 | feet |
| C. | Depth to Water | 6.13 | feet |
| D. | Length of Water Column (calculated) | 6.41 | feet |
| | Conversion Factor | X.16 | ---- |
| | Well Volume (calculated) | 1.0256 | gallons |
| | No. of Volumes to be Evacuated | x3 | ---- |
| | Total Volume to be Evacuated | 3.0768 | gallons |
| | Actual Volume Evacuated | 3 | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

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| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 9:12 AM | 11:27 AM |
| pH | N/A | N/A |
| Temperature | N/A | N/A |
| pH | 8.84 | 8.62 |
| Specific Cond. | 594 | 650 |
| Turbidity | N/A | N/A |
| Dissolved Oxygen | N/A | N/A |
| Appearance | cloudy | sl. Cloudy |
| Weather: | 35 f, sun | 35 f, sun |
| Observations: | | |

% Recharge:

| | | |
|---|---|---|
| Initial Depth to Water | 6.13 | feet |
| Recharge Depth to Water | 6.37 | feet |
| 2nd water column height | 96.23 | % |
| 1st water column height | | |
| Elevation(Top of Casing) | N/A | feet |
| G.W. Elevation= | N/A | feet |

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Justin Gibson

Signature: Justin Gibson

FOIL208663

# Upstate Laboratories, Inc. Ground water Field Log

File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Semi-Annual**

Well ID.: **B-401**

UUI ID No. (entered by lab) [illegible]

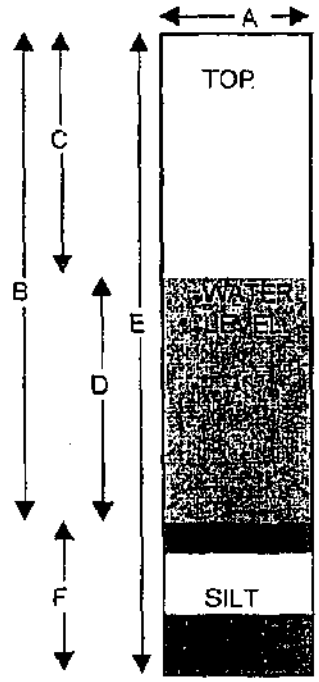
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | 13.03 | feet |
| C. | Depth to Water | 5.21 | feet |
| D. | Length of Water Column (calculated) | 7.82 | feet |
| | Conversion Factor | X.16 | ------ |
| | Well Volume (calculated) | 1.2512 | gallons |
| | No. of Volumes to be Evacuated | x3 | ------ |
| | Total Volume to be Evacuated | 3.7536 | gallons |
| | Actual Volume Evacuated | 4 | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 9:00 AM | 11:20 AM |
| EH | N/A | N/A |
| Temperature | N/A | N/A |
| pH | 8.59 | 8.32 |
| Specific Cond. | 713 | 691 |
| Turbidity | N/A | N/A |
| Dissolved Oxygen | N/A | N/A |
| Appearance | sl. Cloudy | clear |
| Weather: | 35 f, sun | 35 f, sun |

Observations:

% Recharge:

| | | |
|---|---|---|
| Initial Depth to Water | 5.21 | feet |
| Recharge Depth to Water | 5.73 | feet |
| 2nd water column height | 90.92 | % |
| 1st water column height | | |
| Elevation(Top of Casing) | N/A | feet |
| G.W. Elevation= | N/A | feet |

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Justin Gibson

Signature: Justin Gibson

FOIL208664

Upstate Laboratories, Inc. Ground water Field Log File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Thompson Corners**

Well ID.: **B-402R**

ULI ID No. (enter by lab)

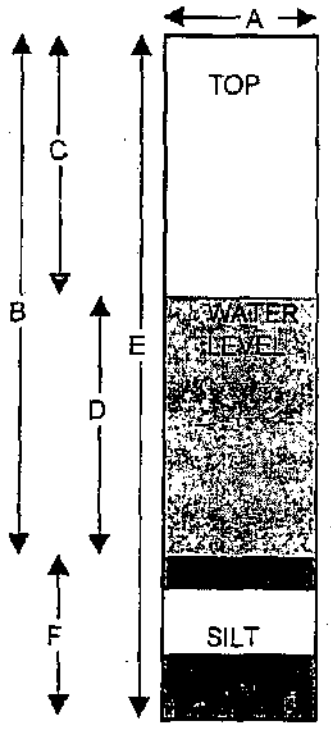
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | 12.24 | feet |
| C. | Depth to Water | 2.47 | feet |
| D. | Length of Water Column (calculated) | 9.77 | feet |
| | Conversion Factor | X.16 | ----- |
| | Well Volume (calculated) | 1.56 | gallons |
| | No. of Volumes to be Evacuated | x3 | ----- |
| | Total Volume to be Evacuated | 4.68 | gallons |
| | Actual Volume Evacuated | 4.5 | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

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| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 9:32 AM | 11:47 AM |
| EH | N/A | N/A |
| Temperature | N/A | N/A |
| pH | 7.98 | 8.13 |
| Specific Cond. | 1543 | 1470 |
| Turbidity | N/A | N/A |
| Dissolved Oxygen | N/A | N/A |
| Appearance | cloudy | cloudy |
| Weather: | 35 f. sun | 35 f. sun |
| Observations: | DUPE | |

% Recharge:

| | | |
|---|---|---|
| Initial Depth to Water | 2.47 | feet |
| Recharge Depth to Water | 2.68 | feet |
| 2nd water column height | 92.16 | % |
| 1st water column height | | |

| | | |
|---|---|---|
| Elevation(Top of Casing) | N/A | feet |
| G.W. Elevation= | N/A | feet |

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Justin Gibson

Signature: Justin Gibson

FOIL208665

Upstate Laboratories, Inc. Ground water Field Log File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Thompson Corners**

Well ID.: **B-403**

ULI ID No. (enter by lab)

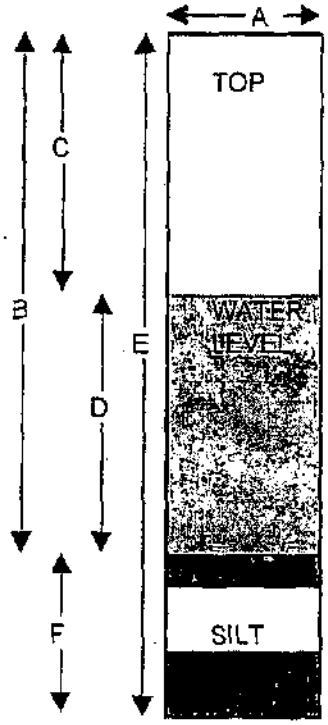
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | 11.26 | feet |
| C. | Depth to Water | 2.97 | feet |
| D. | Length of Water Column (calculated) | 8.29 | feet |
| | Conversion Factor | X.16 | ----- |
| | Well Volume (calculated) | 1.33 | gallons |
| | No. of Volumes to be Evacuated | x3 | ----- |
| | Total Volume to be Evacuated | 3.99 | gallons |
| | Actual Volume Evacuated | 4 | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 9:44 AM | 11:58 AM |
| pH | N/A | N/A |
| Temperature | N/A | N/A |
| pH | 8.78 | 8.61 |
| Specific Cond. | 887 | 913 |
| Turbidity | N/A | N/A |
| Dissolved Oxygen | N/A | N/A |
| Appearance | sl. Cloudy | clear |
| Weather: | 35 f, sun | 35 f, sun |
| Observations: | | |

% Recharge:

| | | |
|---|---|---|
| Initial Depth to Water | 2.97 | feet |
| Recharge Depth to Water | 3.27 | feet |
| 2nd water column height | 90.82 | % |
| 1st water column height | | |

| | | |
|---|---|---|
| Elevation(Top of Casing) | N/A | feet |
| G.W. Elevation= | N/A | feet |

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Justin Gibson

Signature: Justin Gibson

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FOIL208666

Upstate Laboratories, Inc. Ground water Field Log File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Thompson Corners**

Well ID.: **B-404**

ULI ID No. (enter by lab)

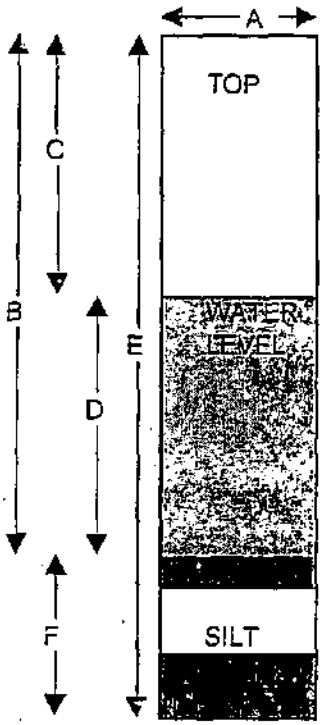
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | 16.14 | feet |
| C. | Depth to Water | 3.5 | feet |
| D. | Length of Water Column (calculated) | 12.64 | feet |
| | Conversion Factor | X.16 | ------ |
| | Well Volume (calculated) | 2.02 | gallons |
| | No. of Volumes to be Evacuated | x3 | ------ |
| | Total Volume to be Evacuated | 6.06 | gallons |
| | Actual Volume Evacuated | 6 | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 9:20 AM | 11:35 AM |
| pH | N/A | N/A |
| Temperature | N/A | N/A |
| pH | 8.39 | 7.24 |
| Specific Cond. | 331 | 365 |
| Turbidity | N/A | N/A |
| Dissolved Oxygen | N/A | N/A |
| Appearance | orange | cloudy |

% Recharge:

| | | |
|---|---|---|
| Initial Depth to Water | 3.5 | feet |
| Recharge Depth to Water | 3.68 | feet |
| 2nd water column height | 95.1 | % |
| 1st water column height | | |

| | | |
|---|---|---|
| Elevation(Top of Casing) | N/A | feet |
| G.W. Elevation= | N/A | feet |

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 35 f, sun 35 f, sun

Observations:

Sampler: Justin Gibson

Signature: Justin Gibson

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FOIL208667

Upstate Laboratories, Inc. Ground water Field Log File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Thompson Corners**

Well ID.: **B-107**

ULI ID No. (enter by lab)

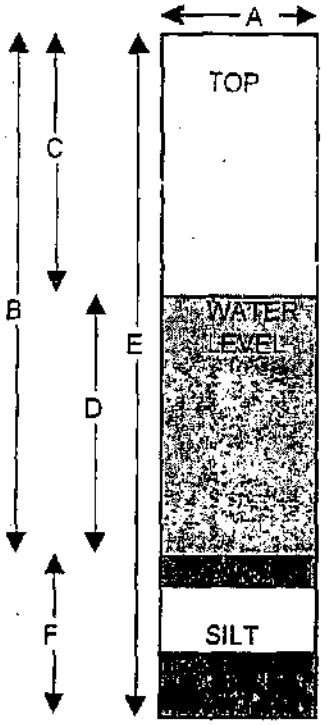
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | | feet |
| C. | Depth to Water | | feet |
| D. | Length of Water Column (calculated) | | feet |
| | Conversion Factor | X.16 | ----- |
| | Well Volume (calculated) | | gallons |
| | No. of Volumes to be Evacuated | x3 | ----- |
| | Total Volume to be Evacuated | | gallons |
| | Actual Volume Evacuated | | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 10:45 AM | |
| pH | | |
| Temperature | | |
| pH | | |
| Specific Cond. | | |
| Turbidity | | |
| Dissolved Oxygen | | |
| Appearance | | |

% Recharge:

Initial Depth to Water _____ feet

Recharge Depth to Water _____ feet

2nd water column height _____ %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Weather: 35 f, sun 35 f, sun

Observations: Could not find well

Sampler: Justin Gibson

Signature: Justin Gibson

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FOIL208668

Upstate Laboratories, Inc. Ground water Field Log File: TS-30-01 Revised: 2/97

Client: **Metallico**

Project: **Thompson Corners**

Well ID.: **B-108**

ULI ID No. (enter by lab):

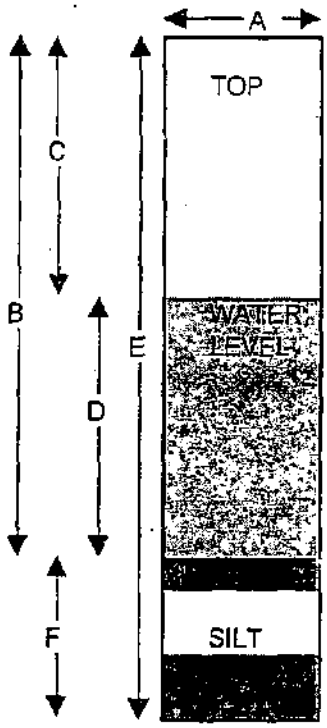
Condition of Well: Good

Locked: YES

Method of Evacuation: Peristolic Pump

Lock ID:

Method of Sampling: Peristolic Pump




| | | | |
|---|---|---|---|
| A. | Diameter of Well | 2" | inches |
| B. | Well Depth Measured | 9.85 | feet |
| C. | Depth to Water | 2.85 | feet |
| D. | Length of Water Column (calculated) | 7 | feet |
| | Conversion Factor | X.16 | ------ |
| | Well Volume (calculated) | 1.12 | gallons |
| | No. of Volumes to be Evacuated | x3 | ------ |
| | Total Volume to be Evacuated | 3.36 | gallons |
| | Actual Volume Evacuated | 3 | gallons |
| E. | Installed Well Depth (if known) | N/A | feet |
| F. | Depth of Silt (calculated | N/A | feet |

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| Field Measurements | Initial Evacuation | Final Sampling |
|---|---|---|
| Date | 12/31/2007 | 12/31/2007 |
| Time | 10:36 AM | 12:38 PM |
| EH | N/A | N/A |
| Temperature | N/A | N/A |
| pH | 8.43 | 8.21 |
| Specific Cond. | 255 | 394 |
| Turbidity | N/A | N/A |
| Dissolved Oxygen | N/A | N/A |
| Appearance | cloudy | cloudy |
| Weather: | 35 f. sun | 35 f. sun |
| Observations: | | |

% Recharge:

Initial Depth to Water ____ feet

Recharge Depth to Water ____ feet

2nd water column height ____ %

1st water column height

Elevation(Top of Casing) N/A feet

G.W. Elevation= N/A feet

G.W.Elevation =Top of Case Elev-Total Depth

Sampler: Justin Gibson

Signature: Justin Gibson

FOIL208669