EPA Region 5 Records Ctr.
277869

# REMEDIAL ACTION QUARTERLY MONITORING REPORT

# SECOND QUARTER – 2004 (4 of 120)

# SKINNER LANDFILL SITE BUTLER COUNTY WEST CHESTER, OHIO

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# LIST OF ACRONYMS

LIST OF ACRONYMS

## LIST OF ACRONYMS

| | |
|---|---|
| AMP | Air Monitoring Plan |
| AOC | Administrative Order on Consent |
| ARAR | Applicable or Relevant and Appropriate Requirements |
| BMR | Baseline Monitor Report |
| BCDES | Butler County Department of Environmental Services |
| bgs | Below Ground Surface |
| BZ | Breathing Zone |
| CD&D | Construction Debris and Demolition Waste |
| CERCLA | Comprehensive Environmental Response, Compensation and Liability Act |
| CGI | Combustible Gas Indicator |
| CHSD | Corporate Health and Safety Director |
| CIP | Construction Implementation Plan |
| CLP | Contract Laboratory Program |
| cm/sec | Centimeters Per Second |
| CO | Carbon Monoxide |
| CP | Contingency Plan |
| CQA | Construction Quality Assurance |
| CQAC | Construction Quality Assurance Consultant |
| CRZ | Contamination Reduction Zone |
| CRQL | Contract Required Quantitation Limit |
| CSDI | Contaminated Soils Design Investigation |
| CY | Cubic Yard |
| CZ | Control Zone |
| DSW | Division of Surface Water (OEPA) |
| DSR | Division Safety Representative |
| EPA | Environmental Protection Agency |
| EZ | Exclusion Zone |
| FID | Flame Ionization Detector |
| FML | Flexible Membrane Liner (low density polyethylene) |
| FSP | Field Sampling Plan |
| FTB | Film Tearing Bond |
| ft | Feet |
| ft/sec | Feet Per Second |
| GCL | Geosynthetic Clay Layer |
| GCAL | Gulf Coast Analytical Laboratories Inc. |
| GIS | Groundwater Interceptor System |
| gpd | Gallons Per Day |
| gpm | Gallons Per Minute |
| GWDI | Groundwater Design Investigation |
| HAP | Hazardous Air Pollutant |
| HASP | Health and Safety Plan |
| HDPE | High-Density Polyethylene |
| HSM | Health and Safety Manager |
| IDLH | Immediately Dangerous to Life or Health |

| | |
|---|---|
| IRM | Interim Remedial Measures |
| kg/d | Kilograms Per Day |
| lb/day | Pounds Per Day |
| LEL | Lower Explosion Limit |
| LF | Lineal Feet |
| LLDPE | Linear Low-Density Polyethylene |
| μ | Micron |
| μg/l | Microgram per Liter |
| MSL | Mean Sea Level |
| NIOSH | National Institute for Occupational Safety and Health |
| $NO_x$ | Oxides of Nitrogen |
| NWI | National Wetland Inventory |
| $O_3$ | Ozone |
| OAC | Ohio Administrative Code |
| ODNR | Ohio Department of Natural Resources |
| OEPA | Ohio Environmental Protection Agency |
| ORC | Ohio Revised Code |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| PID | Photoionization Detector |
| PLC | Programmable Logic Controller |
| PM-10 | Particulate Matter less than 10 microns |
| PRP | Potentially Responsible Party |
| PPE | Personal Protective Equipment |
| psi | Pounds Per Square Inch |
| PQL | Practical Quantitation Limit |
| QAPP | Quality Assurance Project Plan |
| QA | Quality Assurance |
| QC | Quality Control |
| RCRA | Resource Conservation and Recovery Act |
| RA | Remedial Action |
| RD | Remedial Design |
| RHSS | Regional Health & Safety Specialist |
| RI/FS | Remedial Investigation/Feasibility Study |
| ROD | Record of Decision |
| RPM | Remedial Project Manager (USEPA) |
| RPO | Resident Project Observer |
| SI | Site Inspection |
| SF | Square Feet |
| SLWG | Skinner Landfill Work Group |
| $SO_2$ | Sulfur Dioxide |
| SOP | Standard Operating Procedure |
| SOW | Statement of Work |
| SPCC | Spill Prevention Control and Counter Measure Plan |
| SSO | Site Safety Officer |
| SVE | Soil Vapor Extraction |
| SVOC | Semi-Volatile Organic Compound |
| SZ | Support Zone |

| | |
|---|---|
| TAL | Target Analyte List |
| TCL | Target Compound List |
| TDH | Total Dynamic Head |
| TLV | Threshold Limit Values |
| TSS | Total Suspended Solids |
| TWA | Time Weighted Average |
| USACE | United States Army Corps of Engineers |
| USEPA | United States Environmental Protection Agency |
| USFWS | United States Fish and Wildlife Services |
| USGS | United States Geological Survey |
| VOC | Volatile Organic Compound |
| yr | Year |
| WBGT | Wet Bulb Globe Temperature |
| WZ | Work Zone |

# 0.0 INTRODUCTION

## 0.0 GENERAL INFORMATION

This quarterly monitoring report was prepared for the Skinner Landfill Superfund Site located in West Chester, Butler County, Ohio in accordance with the Operation and Maintenance - Long-Term Performance Plan (O&M-LTP Plan) dated August 2003. The O&M-LTP Plan was prepared to meet the requirements of the Record of Decision (ROD) dated June 4, 1993, the Statement of Work (SOW) dated April 6, 1994, the 100% Final Remedial Design dated June 21, 1996 and the Consent Decree dated April 7, 2001.

The remedial action (RA) post-construction O&M monitoring period began with the third quarter of 2003 and extends for a period of 30 years. This report documents the results of groundwater and surface water monitoring conducted during the second quarter of 2004, which is the 4th of 120 sampling events to be conducted during the 30-year monitoring period.

## 0.0 SITE LOCATION AND DESCRIPTION

Skinner Landfill is located approximately 15 miles north of Cincinnati, Ohio near West Chester, Butler County, Ohio in Township 3, Section 22, Range 2. The site is located along Cincinnati-Dayton Road, as shown in Figure 1. The site is bordered on the south by the East Fork of Mill Creek, on the north by wooded land, on the east by a Norfolk Southern Railway Company right-of-way, and on the west by a gravel driveway.

The site is located in a highly dissected area that slopes from a till-mantled-bedrock upland to a broad, flat-bottomed valley that is occupied by the main branch of Mill Creek. Elevations on the site range from a high of nearly 800 feet above mean sea level (MSL) in the northeast, to a low of 645 feet above MSL near the confluence of Skinner Creek and East Fork of Mill Creek. Both Skinner Creek and the East Fork of Mill Creek are small, intermittent shallow streams. Both of these streams flow to the southwest from the site toward the main branch of Mill Creek.

In general, the site is underlain by relatively thin glacial drift over inter-bedded shale and limestone of Ordovician age. The composition of the glacial drift ranges from intermixed silt, sand and gravel, to silty sandy clays with a thickness ranging from zero to over forty feet. The sand and gravel deposits comprise the hills and ridges and are encountered near the surface of the central portion of the site. The silts and clays usually occur as lenses in the sands and gravel or directly overlie bedrock.

## 0.0 SITE HISTORY AND BACKGROUND

The property was originally developed as a sand and gravel mining operation and was subsequently used as a landfill from 1934 to 1990. According to USEPA studies, materials deposited at the site include demolition debris, household refuse and a wide variety of chemical wastes. The waste disposal areas include a now buried former waste lagoon near the center of the site and a landfill. According to USEPA studies, the buried lagoon was used for the disposal of paint wastes, ink wastes, creosote, pesticides, and other chemical wastes. The landfill area, located north and northeast of the buried lagoon, received predominantly demolition and landscaping debris.

In 1976, the Ohio EPA (OEPA) initiated an investigation of the site. In 1982, the site was placed on the National Priority List by the USEPA based on information obtained during a limited investigation of the

site. A Phase II Remedial Investigation was conducted from 1989 to 1991 and involved further investigation of groundwater, surface water, soils and sediments. Both a Baseline Risk Assessment and Feasibility Study (FS) were completed in 1992.

The Phase II Remedial Investigation revealed that the most contaminated media at the site is the soil in the buried waste lagoon. Migration of the landfill constituents has been limited, and the Phase II Remedial Investigation concluded that there had been no off-site migration of landfill constituents via groundwater flow.

In the Record of Decision (ROD), dated June 4, 1993, the USEPA selected a remedy for the site consisting of multi-media capping of the landfill and the buried waste lagoon, and collection and treatment of the groundwater. The ROD also required an investigation to determine the feasibility for soil vapor extraction (SVE) in the granular soil adjacent to the buried lagoon.

The Remedial Design (RD) Investigation performed in 1994 was implemented to collect data required to assess the feasibility of the SVE and to design the multi-media cap and the groundwater extraction/treatment systems. The Remedial Design was submitted to USEPA on June 21,1996 outlining the cover design and groundwater interception system design. Based on the RD investigation, the installation of an SVE system was determined to be unfeasible.

Construction of a groundwater interception system (GIS) and engineered landfill cover system began in April 2001 and was substantially completed in September 2001. The USEPA conducted the pre-final construction inspection on September 27, 2001, the final construction inspection on March 27, 2003 and the second 5-Year Review on January 22, 2004.

## 2.0 SAMPLING METHODS

This quarterly monitoring event was conducted in general accordance with the following documents shown with the date of the USEPA-approved final version:

- Operation and Maintenance - Long-Term Performance Plan (O&M-LTP Plan) dated August 2003, and
- RA Health and Safety Plan, Final February 2001.

There were no deviations from these work plans.

## 3.0 RESULTS

### 1.1 GROUNDWATER LEVELS

The groundwater elevation data obtained from the monitor wells, piezometers and selected gas probes is presented on Table 1 with the corresponding potentiometric surface map provided in Appendix A. The groundwater flow direction and gradient remained relatively unchanged when compared to the previous quarterly monitoring report period. Groundwater flow direction is to the south-southeast directly toward the East Fork of Mill Creek with an average hydraulic gradient of 0.11 ft/ft. The groundwater gradient has remained relatively unchanged when compared to the average hydraulic gradient of 0.13 ft/ft documented in the Remedial Action Baseline Monitoring Report dated March 2005.

## 1.2 GROUNDWATER-WASTE MONITORING

Results of the piezometer groundwater levels used to monitor the groundwater levels relative to bottom of waste are provided on Table 2. Based on measured water levels, groundwater has been lowered below the waste elevation during this monitor event at piezometers P-11 and P-12, which are the two piezometers furthest from Duck Pond. Piezometers P-9 and P-10, as well as other piezometers, were not measured due to wasp nests being present inside the protective steel standpipes.

## 1.3 GROUNDWATER ANALYTICAL RESULTS

A summary of target compound list (TCL) and target analyte list (TAL) parameter concentrations encountered above the contract required detection limit and revised modified trigger level is provided on Table 3. A summary of the laboratory analytical results have been presented on a per well basis in Appendix B to assist in identifying temporal detection patterns. A report of each data set reduction, validation and assessment procedure conducted on an analytical-set basis in accordance with the O&M-LTP Plan quality assurance project plan (QAPP) is included in Appendix C.

In general, target compound list volatiles, semi-volatiles, pesticides and PCBs were not detected in groundwater above the CRQL. However, the groundwater sample collected from monitoring well GW-62B exhibited a benzene concentration of 6.0 mg/L, which exceeds the revised modified trigger level of 5.0 mg/L. Benzene has not previously been detected above the CRQL at this sampling location. Future sampling data will be evaluated for reoccurring trends that exhibit elevated benzene concentrations.

Only one of the sixteen TAL parameters, with revised modified trigger levels, was detected above the CRQL. Detections of iron (present in three groundwater monitoring wells) were detected above the CRQL, but below the revised modified trigger levels.

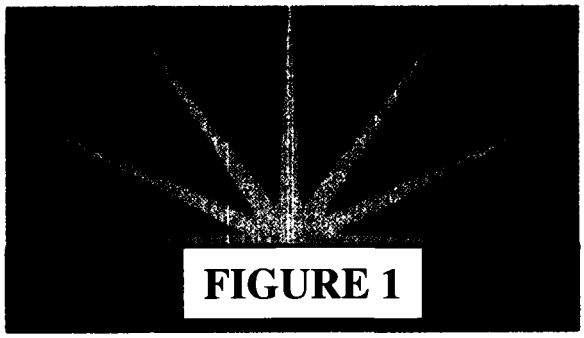
## 1.4 SURFACE WATER ANALYTICAL RESULTS

Surface water analyzed consisted of sampling surface runoff from the site and surface water directly from the East Fork of Mill Creek. A summary of TCL and TAL parameter concentrations encountered above the contract required detection limit and revised modified trigger level is provided on Table 4. A summary of surface water laboratory analytical results is presented in Appendix B. The summary tables are presented on a sample location basis. The validated laboratory analytical data is provided in Appendix C.

In general, target compound list volatiles, semi-volatiles, pesticides and PCBs were not detected in surface water above the CRQL. None of the sixteen TAL parameters, with a revised modified trigger level, were detected above the CRQL.

# FIGURES

FIGURES




# SITE VICINITY MAP

FIGURE 1

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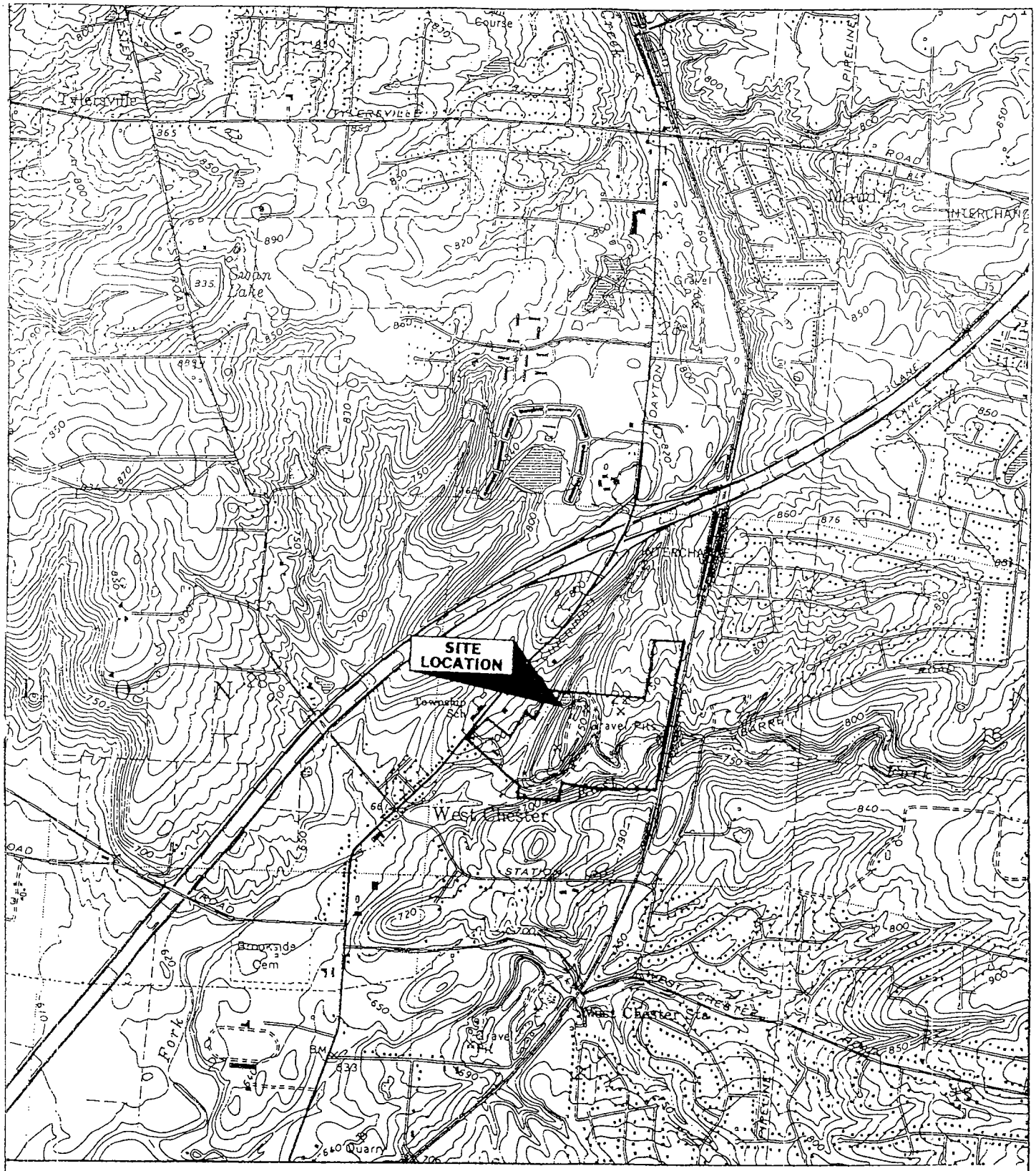



Base taken from USGS Glendale, Ohio
7.5' Topographic Quadrangle, photorevised 1987

0 2000
FEET

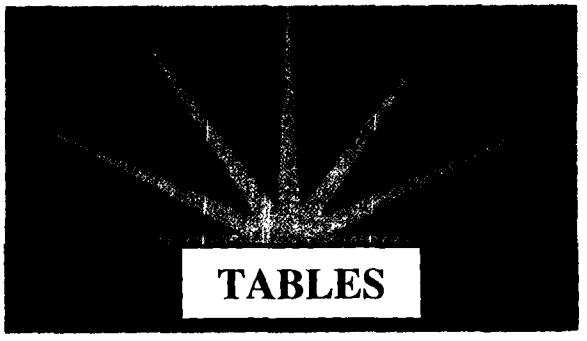
EARTH TECH

N

SKINNER LANDFILL

SITE VICINITY MAP

BUTLER COUNTY, OHIO


TABLES

# TABLE 1

## GROUNDWATER ELEVATIONS

TABLE 1

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# TABLE 1

## Groundwater Elevation Summary

## Skinner Landfill
## West Chester, Ohio

| | | | | | May 2004 | |
|---|---|---|---|---|---|---|
| Well Type | Location | Well Use | Ground Surface Elevation (MSL-feet) | Top of Casing Elevation (MSL-feet) | Depth to Water (feet from top of casing) | Groundwater Elevation (MSL-feet) |
| Piezometers | P-1 | G | 685.42 | 687.65 | NM | NM |
| | P-2 | G | 688.54 | 690.42 | 12.02 | 678.40 |
| | P-3R | G | 691.83 | 693.69 | 24.88 | 668.81 |
| | P-4 | G | 700.32 | 702.63 | 6.61 | 696.02 |
| | P-5 | G | 708.20 | 710.65 | NM | NM |
| | P-6 | G | 707.45 | 710.59 | 12.33 | 698.26 |
| | P-7 | G | 719.08 | 721.83 | Dry | Dry |
| | P-8 | G | 747.70 | 749.91 | 29.55 | 720.36 |
| | P-9 | G | 760.68 | 763.90 | NM | NM |
| | P-10 | G | 761.34 | 764.16 | NM | NM |
| | P-11 | G | 760.34 | 762.76 | 26.71 | 736.05 |
| | P-12 | G | 743.50 | 746.17 | 40.50 | 705.67 |
| Groundwater Monitoring Wells | GW-06R | S | 683.89 | 685.91 | 10.01 | 675.90 |
| | GW-07R | S | 683.46 | 683.06 | 6.65 | 676.41 |
| | GW-24 | G | 693.32 | 695.21 | 19.00 | 676.21 |
| | GW-26 | G | 696.61 | 698.28 | NM | NM |
| | GW-30 | G | 675.63 | 677.62 | 9.12 | 668.50 |
| | GW-58 | S | 684.03 | 686.53 | NM | NM |
| | GW-59 | S | 684.35 | 687.38 | 6.76 | 680.62 |
| | GW-60 | S | 689.12 | 692.38 | 10.58 | 681.80 |
| | GW-61 | S | 687.38 | 690.86 | 13.82 | 677.04 |
| | GW-62A | S | 690.19 | 692.38 | 32.00 | 660.38 |
| | GW-62B | S | 690.57 | 693.13 | 12.02 | 681.11 |
| | GW-63 | S | 698.87 | 702.50 | 11.14 | 691.36 |
| | GW-64 | S | 700.45 | 703.88 | 12.86 | 691.02 |
| | GW-65 | S | 703.83 | 706.88 | 16.23 | 690.65 |
| | GW-66 | G | 686.82 | 689.41 | 7.62 | 681.79 |
| Gas Probes | GP-6 | G | 772.18 | 774.65 | 14.99 | 759.66 |
| | GP-7 | G | 749.83 | 752.65 | 8.92 | 743.73 |

Notes:
MSL - Mean Sea Level
G - Gauging
S - Sampling and Gauging
NM - Not Measured (wasp nests in standpipe)

# TABLE 2

# GROUNDWATER/WASTE ELEVATIONS

TABLE 2

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## TABLE 2

### Groundwater-Waste Monitoring Summary

**Skinner Landfill**
**West Chester, Ohio**

| Piezometer | Depth to Waste (feet) | Bottom of Waste Elevation (MSL-feet) | Baseline Water Elevation (June 2001) (feet) | Water Elevation (August 2003) (feet) | Water Elevation (November 2003) (feet) | Water Elevation (March 2004) (feet) | Water Elevation (May 2004) (feet) |
|---|---|---|---|---|---|---|---|
| P-9 | 25 | 737 | **745.00** | - | - | 743.15 | NM |
| P-10 | 30 | 734 | **744.50** | 738.46 | 739.16 | 738.06 | NM |
| P-11 | 17 | 745 | **744.30** | 735.74 | 734.83 | 735.36 | 736.05 |
| P-12 | 35 | 707 | **713.50** | 705.42 | 705.39 | 705.52 | 705.67 |

Notes:

Waste elevations determined during piezometer installation on June 28 and 29, 2001.

Shaded cells indicate water level elevations below the elevation of waste.

- No Gauging Data Available (well constricted)

NM - Not Measured (wasp nest in standpipe)

# TABLE 3

## GROUNDWATER RESULTS SUMMARY

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TABLE 3

## Table 3

## Groundwater Summary

## Skinner Landfill
## West Chester, Ohio
## Second Quarter 2004

| Sample ID | VOCs | SVOCs | Dissolved Metals** | Pesticides/PCBs |
|---|---|---|---|---|
| **GW-06R** | - | - | *iron* | - |
| **GW-07R** | - | - | - | - |
| **GW-58** | not sampled | not sampled | not sampled | not sampled |
| **GW-59** | - | - | - | - |
| **GW-60** | - | - | - | - |
| **GW-61** | - | - | *iron* | - |
| **GW-62A** | - | - | - | - |
| **GW-62B** | **benzene** | * | * | * |
| **GW-63** | - | - | *iron* | - |
| **GW-64** | - | - | - | - |
| **GW-65** | - | - | * | * |

- all parameters below report limits
*italic - above Contract Required Quantitation Levels (CRQL's)*
**bold - above trigger level**
* - Insufficient sample volume.
** - Dissolved metals for analytes that have a corresponding trigger level.
GW-58 not sampled due to wasp nest in standpipe.

# TABLE 4

## SURFACE WATER RESULTS SUMMARY

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**Table 4**

**Surface Water Summary**

**Skinner Landfill**
**West Chester, Ohio**
**Second Quarter 2004**

| Sample ID | VOCs | SVOCs | Dissolved Metals** | Pesticides/PCBs |
|---|---|---|---|---|
| SW-50 | - | - | - | - |
| SW-51 | - | - | - | - |
| SW-52 | - | - | - | - |
| SWD-1 | * | * | * | * |
| SWD-2 | * | * | * | * |
| SWD-3 | - | - | - | - |

- all parameters below report limits
*italic - above Contract Required Quantitation Levels (CRQL's)*
**bold - above trigger level**
* - Insufficient sample volume.
** - Dissolved metals for analytes that have a corresponding trigger level.

# APPENDIX A

## POTENTIONMETRIC SURFACE MAP

# SDMS US EPA Region V

*Imagery Insert Form*

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APPENDIX A – POTENTIOMETRIC SURFACE MAP

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# APPENDIX B

## SUMMARY OF ANALYTICAL RESULTS

# Skinner Landfill
# West Chester, Ohio
# Groundwater Analysis Summary Table for Monitoring Well GW-06R

| | Sampling Event (All Results Expressed in Units of µg/l) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline Results | | | Quarterly Results | | | | | |
| Compound | December-02 | February-03 | May-03 | August-03 | November-03 | March-04 | May-04 | TRIGGER LEVEL | CRQL |
| **Inorganics - Metals (Dissolved)**[13] | | | | | | | | | |
| Aluminum | — | — | — | — | 25.8 | 25.8 | 85.2 | | 200 |
| Antimony | 6.0 B | 3.0 | 7.0 | 3.7 | 3.7 | 3.7 | 7.7 | 60 | 60 |
| Arsenic | 3.6 U | 3.6 | 2.9 | 2.9 | 2.9 | 2.9 | 5.4 | 20 | 10 |
| Barium | 254 | 256 | 224 | 309 J | 294 | 266 | 45.4 J | 1,000 | 200 |
| Beryllium | 0.1 U | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 5 | 5 |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 | 0.2 | 0.2 | 0.2 | 0.5 | 5 | 5 |
| Calcium | — | — | — | — | 189,000 | 189,000 | 176,000 | | 5,000 |
| Chromium | 3.5 B | 2.1 | 2.6 | 2.6 | 0.8 | 1.2 | 1.5 UJ | 11 | 10 |
| Cobalt | — | — | — | — | 0.4 | 0.4 | 1.6 | | 50 |
| Copper | 1.0 U | 1.0 UJ | 1.9 | 1.3 | 1.7 | 1.2 | 1.2 | 25 | 25 |
| Iron | 4.9 U | 79.2 | 14.1 | 14.1 | 14.1 | 22.0 | 1,360 J | 7,000 | 100 |
| Lead | 1.3 UJ | 1.3 R | 1.5 UJ | 1.5 | 1.5 | 1.5 | 2.4 UJ | 4.2 | 3 |
| Magnesium | — | — | — | — | 30,500 | 30,000 | 33,100 | | 5,000 |
| Manganese | — | — | — | — | 77.0 | 69.5 J | 481 J | | 15 |
| Mercury | 0.1 U | 0.1 UJ | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| Nickel | 1.6 B | 1.8 | 1.8 | 1.7 | 1.8 | 1.7 | 3.4 J | 96 | 40 |
| Potassium | — | — | — | — | 2,400 | 2,060 | 7,180 J | | 5,000 |
| Selenium | 4.0 U | 4.0 R | 4.4 | 4.4 | 4.4 R | 4.4 UJ | 4.4 UJ | 8.5 | 5 |
| Silver | 5.5 B | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.9 | 10 | 10 |
| Sodium | — | — | — | — | 21,500 | 20,700 | 29,000 J | | 5,000 |
| Thallium | 3.6 UJ | 3.6 | 2.6 UJ | 2.6 | 2.6 UJ | 2.6 | 6.3 | 40 | 10 |
| Vanadium | — | — | — | — | 0.8 | 1.6 | 1.1 | | 50 |
| Zinc | 10.7 B | 0.8 UJ | 1.5 | 13.5 | 0.6 UJ | 0.6 UJ | 0.7 UJ | 86 | 20 |
| **Inorganics - Metals and Cyanide (Total)** | | | | | | | | | |
| Aluminum | — | — | — | — | 17,000 | 9,900 | 4,950 J | | |
| Antimony | 28.7 B | 3.0 | 6.9 | 3.7 | 3.7 | 5.5 | 8.2 | | |
| Arsenic | 73.2 | 38.8 | 2.9 | 13.2 | 20.5 | 12.4 | 5.4 | | |
| Barium | 1,120 | 852 | 336 | 493 | 568 | 440 | 103 J | | |
| Beryllium | 3.3 B | 2.5 | 0.1 | 0.3 | 1.2 | 1.1 | 0.7 | | |
| Cadmium | 2.0 B | 0.2 UJ | 0.2 | 0.2 | 0.2 | 1.0 | 1.5 | | |
| Calcium | — | — | — | — | 378,000 | 309,000 | 224,000 J | | |
| Chromium | 82.3 | 64.2 | 12.3 | 21.4 J | 27.0 | 16.9 | 5.3 J | | |
| Cobalt | — | — | — | — | 24.1 | 12.3 | 6.6 | | |
| Copper | 138 | 108 J | 16.7 | 32.1 | 52.1 | 39.3 | 12.0 J | | |
| Cyanide | 4.0 UJ | 4.0 | 3.0 | 3.0 | 3.0 | 1.0 | 3.3 | 10 | 10 |
| Iron | 123,000 | 94,100 | 13,100 | 27,200 J | 45,400 | 25,300 | 17,300 J | | |
| Lead | 95.4 J | 100 J | 9.6 J | 26.0 J | 46.0 | 23.9 | 9.3 J | | |
| Magnesium | — | — | — | — | 115,000 | 83,600 | 46,800 J | | |
| Manganese | — | — | — | — | 2,940 | 988 | 758 | | |
| Mercury | 0.2 | 0.2 J | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 J | | |
| Nickel | 114 | 88.2 | 14.1 | 26.0 | 41.2 | 23.4 | 17.2 J | | |
| Potassium | — | — | — | — | 5,050 | 3,970 | 8,320 | | |
| Selenium | 65.7 | 4.0 R | 4.4 | 4.4 R | 4.4 UJ | 4.4 UJ | 4.4 | | |
| Silver | 10.6 | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.9 | | |
| Sodium | — | — | — | — | 22,100 | 21,900 | 28,600 J | | |
| Thallium | 3.6 UJ | 4.9 J | 2.6 UJ | 2.6 UJ | 2.6 | 2.6 | 6.3 | | |
| Vanadium | — | — | — | — | 41.5 | 22.2 | 3.7 | | |
| Zinc | 379 | 279 J | 61.5 | 87.8 J | 147 J | 72.9 | 22.1 UJ | | |
| **Volatile Organic Compounds (VOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| **Semi-Volatile Organic Compounds (SVOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| Bis (2-ethlyhexyl) phthalate | 10.0 U | 906 | 10.0 U | 10.0 U | 10.0 U | 10.0 U | 10.0 U | 49 | 10 |
| **Pesticides / PCBs** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |

Notes:
1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

EarthTech
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# Skinner Landfill
# West Chester, Ohio
# Groundwater Analysis Summary Table for Monitoring Well GW-07R

| | Sampling Event (All Results Expressed in Units of µg/l) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline Results | | | Quarterly Results | | | | | |
| Compound | December-02 | February-03 | May-03 | August-03 | November-03 | March-04 | May-04 | TRIGGER LEVEL | CRQL |
| **Inorganics - Metals (Dissolved)**[13] | | | | | | | | | |
| Aluminum | — | — | — | — | 25.8 | 25.8 | 62.0 | | 200 |
| Antimony | 12.4 B | 3.3 | 3.7 | 3.7 | 3.7 | 3.7 | 3.9 | 60 | 60 |
| Arsenic | 7.7 B | 3.6 | 2.9 | 2.9 | 4.5 | 2.9 | 5.4 | 20 | 10 |
| Barium | 123 B | 99.9 | 98.8 | 152 J | 131 | 113 | 119 J | 1,000 | 200 |
| Beryllium | 0.1 U | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 5 | 5 |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 | 0.2 | 0.2 | 0.2 | 0.9 | 5 | 5 |
| Calcium | — | — | — | — | 229,000 | 185,000 | 184,000 | | 5,000 |
| Chromium | 2.9 B | 2.7 | 2.0 | 2.9 | 0.8 | 1.1 | 1.5 UJ | 11 | 10 |
| Cobalt | — | — | — | — | 1.4 | 0.7 | 0.9 | | 50 |
| Copper | 1.0 U | 1.0 UJ | 1.2 | 1.2 | 1.2 | 1.2 | 1.4 | 25 | 25 |
| Iron | 1,250 | 241 | 146 | 301 J | 3,580 | 32.9 | 41.3 J | 7,000 | 100 |
| Lead | 1.3 UJ | 1.3 R | 1.5 J | 1.5 | 1.5 | 1.5 | 2.4 UJ | 4.2 | 3 |
| Magnesium | — | — | — | — | 33,000 | 26,300 | 28,100 | | 5,000 |
| Manganese | — | — | — | — | 849 | 914 J | 1,090 J | | 15 |
| Mercury | 0.1 U | 0.1 UJ | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| Nickel | 1.9 B | 3.4 | 3.2 | 2.4 | 1.6 | 2.2 | 3.5 | 96 | 40 |
| Potassium | — | — | — | — | 3,260 | 2,350 | 2,580 J | | 5,000 |
| Selenium | 4.0 U | 4.0 R | 4.4 | 4.4 | 4.4 R | 4.4 UJ | 4.4 UJ | 8.5 | 5 |
| Silver | 4.7 B | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.9 | 10 | 10 |
| Sodium | — | — | — | — | 42,200 | 25,200 | 25,500 J | | 5,000 |
| Thallium | 3.6 UJ | 3.6 | 2.6 J | 2.6 | 2.6 UJ | 2.6 | 8.5 | 40 | 10 |
| Vanadium | — | — | — | — | 0.8 | 0.8 | 1.1 | | 50 |
| Zinc | 11.3 B | 0.8 UJ | 10.2 | 10.9 | 30.7 J | 0.6 UJ | 0.7 UJ | 86 | 20 |
| **Inorganics - Metals and Cyanide (Total)** | | | | | | | | | |
| Aluminum | — | — | — | — | 3,130 J | 7,810 | 10,300 J | | |
| Antimony | 14.2 B | 3.0 | 3.7 | 3.7 | 3.7 | 6.6 J | 4.5 | | |
| Arsenic | 9.8 B | 3.6 | 2.9 | 14.6 | 5.3 | 6.9 | 5.4 | | |
| Barium | 454 | 260.0 | 132 | 699 | 204 | 484 | 570 J | | |
| Beryllium | 0.2 B | 0.1 | 0.1 | 0.3 | 0.1 | 0.8 | 0.8 | | |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 | 0.2 | 0.2 | 0.9 | 1.2 | | |
| Calcium | — | — | — | — | 246,000 | 281,000 | 260,000 J | | |
| Chromium | 19.3 | 9.1 | 3.7 | 21.5 J | 4.9 | 12.9 | 17.4 J | | |
| Cobalt | — | — | — | — | 4.3 | 7.0 | 9.1 | | |
| Copper | 21.8 B | 8.2 J | 4.2 | 30.4 | 10.0 | 35.5 | 31.1 J | | |
| Cyanide | 4.0 U | 4.0 | 3.0 | 3.0 | 3.0 | 1.5 | 0.5 | 10.0 | 10.0 |
| Iron | 24,800 | 10,200 | 2,380 | 29,000 J | 9,890 | 20,200 | 26,900 J | | |
| Lead | 9.1 J | 1.3 R | 1.5 UJ | 16.8 J | 5.2 | 9.2 | 15.7 J | | |
| Magnesium | — | — | — | — | 41,600 | 54,000 | 54,300 J | | |
| Manganese | — | — | — | — | 969 | 1,590 | 2,020 J | | |
| Mercury | 0.1 U | 0.1 UJ | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | |
| Nickel | 21.3 B | 10.4 | 4.7 | 25.3 | 10.5 | 17.8 | 24.0 J | | |
| Potassium | — | — | — | — | 3,780 | 4,510 | 5,060 J | | |
| Selenium | 4.0 U | 4.0 R | 4.4 | 4.4 R | 4.4 UJ | 4.4 UJ | 4.4 | | |
| Silver | 5.2 B | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.9 | | |
| Sodium | — | — | — | — | 41,200 | 31,200 | 27,100 J | | |
| Thallium | 3.6 UJ | 3.6 UJ | 2.6 UJ | 2.6 UJ | 2.6 | 2.6 | 6.3 | | |
| Vanadium | — | — | — | — | 6.5 | 15.3 J | 15.2 | | |
| Zinc | 63.1 | 27.6 J | 50.7 | 90.3 J | 22.7 J | 51.2 | 35.5 UJ | | |
| **Volatile Organic Compounds (VOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| **Semi-Volatile Organic Compounds (SVOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| **Pesticides / PCBs** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

# Skinner Landfill
# West Chester, Ohio
# Groundwater Analysis Summary Table for Monitoring Well GW-58

| | Sampling Event (All Results Expressed in Units of µg/l) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline Results | | | Quarterly Results | | | | | |
| **Compound** | **December-02** | **February-03** | **May-03** | **August-03** | **November-03** | **March-04** | **May-04** | **TRIGGER LEVEL** | **CRQL** |
| **Inorganics - Metals (Dissolved)**[13] | | | | | | | Not Sampled* | | |
| Aluminum | — | — | — | — | 25.8 | 25.8 | — | | 200 |
| Antimony | 9.7 B | 3.0 | 4.9 | 3.7 | 3.7 | 3.7 | — | 60 | 60 |
| Arsenic | 3.6 U | 3.6 | 2.9 | 3.1 | 6.0 | 3.1 | — | 20 | 10 |
| Barium | 50.9 B | 163 | 158 | 162 J | 228 | 156 | — | 1,000 | 200 |
| Beryllium | 0.1 U | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | — | 5 | 5 |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 | 0.2 | 0.2 | 0.2 | — | 5 | 5 |
| Calcium | — | — | — | — | 96,400 | 109,000 | — | | 5,000 |
| Chromium | 2.9 B | 2.7 | 2.8 | 2.5 | 0.8 | 1.5 | — | 11 | 10 |
| Cobalt | — | — | — | — | 0.4 | 1.3 | — | | 50 |
| Copper | 1.0 U | 1.0 UJ | 1.2 | 1.2 | 1.2 | 2.9 | — | 25 | 25 |
| Iron | 4.9 U | 249 | 1,140 | 488 J | 2,890 | 209 | — | 7,000 | 100 |
| Lead | 1.3 U | 1.3 R | 1.5 UJ | 1.5 | 1.5 | 1.5 | — | 4.2 | 3 |
| Magnesium | — | — | — | — | 32,800 | 32,500 | — | | 5,000 |
| Manganese | — | — | — | — | 354 | 549 | — | | 15 |
| Mercury | 0.1 U | 0.1 UJ | 0.1 | 0.1 | 0.1 | 0.1 | — | 0.2 | 0.2 |
| Nickel | 1.7 B | 2.2 | 2.4 | 1.2 | 1.3 | 2.6 | — | 96 | 40 |
| Potassium | — | — | — | — | 5,210 | 4,550 | — | | 5,000 |
| Selenium | 4.0 UJ | 4.0 R | 4.4 | 4.4 | 4.4 R | 4.4 UJ | — | 8.5 | 5 |
| Silver | 4.1 B | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | — | 10 | 10 |
| Sodium | — | — | — | — | 34,400 | 32,400 | — | | 5,000 |
| Thallium | 3.6 U | 3.6 | 2.6 UJ | 2.6 | 2.6 UJ | 2.6 | — | 40 | 10 |
| Vanadium | — | — | — | — | 0.8 | 1.6 | — | | 50 |
| Zinc | 11.0 B | 0.8 UJ | 19.2 | 7.7 | 0.6 UJ | 0.6 | — | 86 | 20 |
| **Inorganics - Metals and Cyanide (Total)** | | | | | | | | | |
| Aluminum | — | — | — | — | 41,600 | 12,000 | — | | |
| Antimony | 14.3 B | 3.0 | 5.2 | 3.7 | 3.7 | 5.7 | — | | |
| Arsenic | 17.5 | 17.1 | 3.2 | 20.6 | 32.9 | 11.5 J | — | | |
| Barium | 422 | 540 | 367.0 | 391 | 822 | 284 | — | | |
| Beryllium | 1.0 B | 1.3 | 0.3 | 0.7 | 2.9 | 1.0 | — | | |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 | 0.2 | 1.8 | 1.5 | — | | |
| Calcium | — | — | — | — | 745,000 | 214,000 | — | | |
| Chromium | 51.3 | 63.1 | 14.9 | 42.6 J | 112 | 28.2 | — | | |
| Cobalt | — | — | — | — | 57.2 | 13.4 | — | | |
| Copper | 47.7 | 42.5 J | 27.8 | 43.2 | 138 | 45.7 | — | | |
| Cyanide | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 0.5 | — | 10 | 10 |
| Iron | 54,500 | 61,900 | 17,000 | 40,800 J | 129,000 | 32,700 | — | | |
| Lead | 19.8 J | 38.5 UJ | 23.0 J | 26.8 J | 92.7 | 19.5 | — | | |
| Magnesium | — | — | — | — | 148,000 | 56,000 | — | | |
| Manganese | — | — | — | — | 4,200 | 1,300 | — | | |
| Mercury | 0.1 U | 0.1 UJ | 0.1 | 0.1 | 0.1 | 0.1 | — | | |
| Nickel | 56.2 | 66.5 | 20.1 | 50.6 | 124 | 32.1 | — | | |
| Potassium | — | — | — | — | 11,800 | 7,640 | — | | |
| Selenium | 4.0 U | 4.0 R | 4.4 | 4.4 R | 4.4 UJ | 4.4 UJ | — | | |
| Silver | 5.9 B | 0.5 | 0.4 | 0.4 | 1.6 | 0.4 | — | | |
| Sodium | — | — | — | — | 36,900 | 33,500 | — | | |
| Thallium | 3.6 UJ | 3.6 UJ | 2.6 UJ | 2.6 UJ | 2.6 | 4.1 J | — | | |
| Vanadium | — | — | — | — | 74.0 | 23.2 | — | | |
| Zinc | 153 | 164 J | 78.7 | 137 J | 367 J | 81.0 J | — | | |
| **Volatile Organic Compounds (VOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | — | | |
| **Semi-Volatile Organic Compounds (SVOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | — | | |
| **Pesticides / PCBs** | BRL | BRL | BRL | BRL | BRL | BRL | — | | |

Notes:

* - Well not sampled, wasp nest in standpipe.

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

EarthTech
A Tyco International Ltd. Company

# Skinner Landfill
# West Chester, Ohio
# Groundwater Analysis Summary Table for Monitoring Well GW-59

| | Sampling Event (All Results Expressed in Units of µg/l) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline Results | | | Quarterly Results | | | | | |
| Compound | December-02 | February-03 | May-03 | August-03 | November-03 | March-04 | May-04 | TRIGGER LEVEL | CRQL |
| **Inorganics - Metals (Dissolved)**[13] | | | | | | | | | |
| Aluminum | — | — | — | — | 25.8 | 27.2 | 55.3 | | 200 |
| Antimony | 13.1 B | 3.0 | 8.0 | 7.2 | 6.5 | 3.7 | 3.9 | 60 | 60 |
| Arsenic | 5.9 B | 3.6 | 2.9 | 2.9 | 2.9 | 2.9 | 5.4 | 20 | 10 |
| Barium | 65.6 B | 35.7 | 37.2 | 38.1 J | 40.7 | 21.8 | 23.2 | 1,000 | 200 |
| Beryllium | 0.1 U | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 5 | 5 |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 5 | 5 |
| Calcium | — | — | — | — | 261,000 | 239,000 | 209,000 | | 5,000 |
| Chromium | 4.6 B | 4.9 | 4.4 | 3.3 | 0.8 | 1.8 | 1.5 | 11 | 10 |
| Cobalt | — | — | — | — | 0.4 | 0.4 | 0.6 | | 50 |
| Copper | 1.0 U | 1.0 UJ | 3.5 | 3.0 | 4.0 | 2.1 | 1.2 | 25 | 25 |
| Iron | 4.9 U | 591 | 14.1 | 14.1 | 14.1 | 28.8 | 31.0 | 7,000 | 100 |
| Lead | 1.3 UJ | 1.3 R | 1.5 UJ | 1.5 | 1.5 | 1.5 | 2.4 | 4.2 | 3 |
| Magnesium | — | — | — | — | 59,500 | 49,000 | 43,900 | | 5,000 |
| Manganese | — | — | — | — | 27.3 | 4.5 J | 0.6 | | 15 |
| Mercury | 0.1 U | 0.1 UJ | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| Nickel | 1.8 B | 3.5 | 3.5 | 3 | 2.3 | 2.6 | 2.2 | 96 | 40 |
| Potassium | — | — | — | — | 29,800 | 32,800 | 29,200 | | 5,000 |
| Selenium | 18.2 | 4.0 R | 4.4 | 4.4 | 4.4 R | 4.4 UJ | 4.4 R | 8.5 | 5 |
| Silver | 7.2 B | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.9 | 10 | 10 |
| Sodium | — | — | — | — | 186,000 | 166,000 | 145,000 | | 5,000 |
| Thallium | 3.6 UJ | 3.6 UJ | 2.6 UJ | 2.6 | 2.6 UJ | 3.1 J | 6.3 UJ | 40 | 10 |
| Vanadium | — | — | — | — | 0.8 | 1.4 | 1.1 | | 50 |
| Zinc | 7.2 B | 0.8 J | 1.2 | 18.4 | 0.6 UJ | 3.1 J | 0.7 | 86 | 20 |
| **Inorganics - Metals and Cyanide (Total)** | | | | | | | | | |
| Aluminum | — | — | — | — | 3,710 | 816 | 754 | | |
| Antimony | 19.5 B | 3.0 | 3.7 | 3.7 | 3.7 | 4.7 | 3.9 | | |
| Arsenic | 36.5 | 3.6 | 2.9 | 3.6 | 4.3 | 2.9 | 5.4 | | |
| Barium | 215 | 202 | 55.2 | 62.1 | 213 | 55.0 | 58.4 | | |
| Beryllium | 1.9 B | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | | |
| Cadmium | 0.7 B | 0.2 UJ | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | | |
| Calcium | — | — | — | — | 281,000 | 243,000 | 234,000 | | |
| Chromium | 82.4 | 18.8 | 5.4 | 8.3 J | 19.1 | 5.5 | 3.7 | | |
| Cobalt | — | — | — | — | 7.4 | 2.1 | 2.5 | | |
| Copper | 45.0 | 1.0 UJ | 3.6 | 6.0 | 11.9 | 10.1 | 4.1 | | |
| Cyanide | 4.0 | 4.0 | 3.0 | 3.0 | 3.0 | 1.0 | 0.6 | 10 | 10 |
| Iron | 79,700 | 9,810 | 1,390 | 2,240 J | 12,900 | 3,020 | 2,710 | | |
| Lead | 36.7 J | 1.3 R | 1.5 UJ | 5.7 J | 10.0 | 1.5 | 4.7 J | | |
| Magnesium | — | — | — | — | 62,400 | 51,500 | 49,100 | | |
| Manganese | — | — | — | — | 923 | 224 | 357 | | |
| Mercury | 0.1 B | 0.1 UJ | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | |
| Nickel | 77.2 | 16.0 | 4.8 | 6.5 | 20.0 | 6.7 | 6.3 | | |
| Potassium | — | — | — | — | 31,900 | 32,500 | 32,900 | | |
| Selenium | 21.6 | 4.0 R | 4.4 | 4.4 R | 4.4 UJ | 4.4 UJ | 4.4 UJ | | |
| Silver | 7.6 B | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.9 | | |
| Sodium | — | — | — | — | 180,000 | 162,000 | 152,000 | | |
| Thallium | 3.6 UJ | 3.6 UJ | 2.6 UJ | 2.6 UJ | 2.6 | 2.6 | 6.3 | | |
| Vanadium | — | — | — | — | 5.9 | 2.3 | 1.1 | | |
| Zinc | 238 | 18.9 J | 16.3 | 21.2 J | 36.3 J | 7.9 J | 10.6 | | |
| **Volatile Organic Compounds (VOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| 1,1-Dichloroethane | | | 0.2 J | 1.0 U | 1.0 U | 1.0 U | 0.18 J | | 10 |
| **Semi-Volatile Organic Compounds (SVOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| **Pesticides / PCBs** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

# Skinner Landfill
# West Chester, Ohio
# Groundwater Analysis Summary Table for Monitoring Well GW-60

| | Sampling Event (All Results Expressed in Units of µg/l) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline Results | | | Quarterly Results | | | | | |
| **Compound** | **December-02** | **February-03** | **May-03** | **August-03** | **November-03** | **March-04** | **May-04** | **TRIGGER LEVEL** | **CRQL** |
| **Inorganics - Metals (Dissolved)**[13] | | Insufficient Volume | | Insufficient Volume | | Insufficient Volume | | | |
| Aluminum | — | — | — | — | 25.8 | 25.8 | 57.9 | | 200 |
| Antimony | 11.3 B | — | 6.7 | — | 3.7 | 5.1 | 3.9 | 60 | 60 |
| Arsenic | 3.6 U | — | 2.9 | — | 2.9 | 2.9 | 5.4 | 20 | 10 |
| Barium | 43 B | — | 60.9 | — | 28.7 | 27.1 | 37.0 | 1,000 | 200 |
| Beryllium | 0.1 U | — | 0.1 | — | 0.1 | 0.2 | 0.2 | 5 | 5 |
| Cadmium | 0.2 U | — | 0.2 | — | 0.2 | 0.2 | 0.6 | 5 | 5 |
| Calcium | — | — | — | — | 100,000 | 309,000 | 163,000 | | 5,000 |
| Chromium | 4.6 B | — | 2.7 | — | 0.8 | 2.6 | 1.5 | 11 | 10 |
| Cobalt | — | — | — | — | 0.4 | 0.4 | 0.6 | | 50 |
| Copper | 1.0 U | — | 3.0 | — | 4.2 | 4.0 | 1.2 | 25 | 25 |
| Iron | 1.3 UJ | — | 14.1 | — | 14.1 | 14.1 | 26.4 | 7,000 | 100 |
| Lead | 0.1 U | — | 1.5 UJ | — | 1.5 | 1.5 | 2.4 | 4.2 | 3 |
| Magnesium | — | — | — | — | 20,100 | 88,200 | 28,800 | | 5,000 |
| Manganese | — | — | — | — | 2.4 | 0.5 J | 1.4 | | 15 |
| Mercury | 3.4 B | — | 0.1 | — | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| Nickel | 13.3 | — | 1.1 | — | 0.7 | 2.4 | 2.1 | 96 | 40 |
| Potassium | — | — | — | — | 6,970 | 6,480 | 6,640 | | 5,000 |
| Selenium | 5.8 B | — | 4.4 | — | 4.4 R | 4.4 UJ | 4.4 R | 8.5 | 5 |
| Silver | 3.6 UJ | — | 0.4 | — | 0.4 | 0.4 | 0.9 | 10 | 10 |
| Sodium | — | — | — | — | 201,000 | 46,000 | 46,000 | | 5,000 |
| Thallium | 10.4 B | — | 2.6 UJ | — | 2.6 UJ | 2.6 | 6.3 UJ | 40 | 10 |
| Vanadium | — | — | — | — | 0.8 | 0.8 | 1.1 | | 50 |
| Zinc | 10.4 B | — | 4.5 | — | 0.6 UJ | 0.6 UJ | 0.7 | 86 | 20 |
| **Inorganics - Metals and Cyanide (Total)** | | | | | | | | | |
| Aluminum | — | — | — | — | 13,400 J | 32,500 | 16,300 | | |
| Antimony | 8.4 B | — | 3.7 | — | 3.7 | 9.7 | 8.2 | | |
| Arsenic | 5.7 B | — | 2.9 | — | 11.7 | 17.0 J | 5.4 | | |
| Barium | 88.5 B | — | 73.1 | — | 89.8 | 129 | 88.1 | | |
| Beryllium | 0.1 U | — | 0.1 | — | 0.9 | 2.5 | 1.3 | | |
| Cadmium | 0.2 U | — | 0.2 | — | 0.2 | 2.8 | 1.2 | | |
| Calcium | — | — | — | — | 158,000 | 492,000 | 234,000 | | |
| Chromium | 7.3 B | — | 10.9 | — | 33.2 | 59.6 | 31.6 | | |
| Cobalt | — | — | — | — | 16.6 | 36.1 | 19.1 | | |
| Copper | 1.0 U | — | 7.5 | — | 29.3 | 54.5 | 26.9 | | |
| Cyanide | 4.0 U | — | 3.0 | — | 3.0 | — | 0.5 | 10 | 10 |
| Iron | 2,780 | — | 7830 | — | 31,300 | 74,200 | 41,800 | | |
| Lead | 1.3 UJ | — | 1.5 UJ | — | 28.2 | 40.4 | 26.9 J | | |
| Magnesium | — | — | — | — | 32,500 | 112,000 | 41,900 | | |
| Manganese | — | — | — | — | 555 | 1,410 | 785 | | |
| Mercury | 0.1 U | — | 0.1 | — | 0.1 | 0.1 | 0.1 | | |
| Nickel | 7.4 B | — | 7.8 | — | 31.6 | 67.3 | 37.8 | | |
| Potassium | — | — | — | — | 9,290 | 11,800 | 10,600 | | |
| Selenium | 14.3 | — | 4.4 | — | 4.4 UJ | 4.4 UJ | 4.4 UJ | | |
| Silver | 5.0 B | — | 0.4 | — | 0.4 | 0.4 | 0.9 | | |
| Sodium | — | — | — | — | 212,000 | 44,600 | 45,000 | | |
| Thallium | 3.6 UJ | — | 2.6 UJ | — | 2.6 | 11.0 J | 6.3 | | |
| Vanadium | — | — | — | — | 23.2 | 51.2 | 19.8 | | |
| Zinc | 28.3 | — | 34.2 | — | 135 J | 180 J | 97.3 | | |
| **Volatile Organic Compounds (VOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| **Semi-Volatile Organic Compounds (SVOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| **Pesticides / PCBs** | BRL | — | BRL | BRL | BRL | BRL | BRL | | |

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) *Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)*
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

EarthTech
A Tyco International Ltd. Company

# Skinner Landfill
# West Chester, Ohio
# Groundwater Analysis Summary Table for Monitoring Well GW-61

| | Sampling Event (All Results Expressed in Units of µg/l) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline Results | | | Quarterly Results | | | | | |
| Compound | December-02 | February-03 | May-03 | August-03 | November-03 | March-04 | May-04 | TRIGGER LEVEL | CRQL |
| **Inorganics - Metals (Dissolved)**[13] | | | | | | | | | |
| Aluminum | — | — | — | — | 25.8 | 25.8 | 55.3 | | 200 |
| Antimony | 6.7 B | 3.0 | 7.3 | 3.7 | 3.7 | 4.5 | 4.5 | 60 | 60 |
| Arsenic | 13.7 | 3.6 | 2.9 | 4.7 | 7.5 | 2.9 | 5.4 | 20 | 10 |
| Barium | 98.2 B | 64.7 | 67.7 | 77.7 J | 83.3 | 39.4 | 45.3 J | 1,000 | 200 |
| Beryllium | 0.1 U | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 5 | 5 |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 | 0.2 | 0.2 | 0.3 | 0.9 | 5 | 5 |
| Calcium | — | — | — | — | 191,000 | 191,000 | 178,000 | | 5,000 |
| Chromium | 4.4 B | 1.6 | 3.3 | 3.8 | 0.8 | 1.1 | 1.5 | 11 | 10 |
| Cobalt | — | — | — | — | 2.0 | 1.4 | 1.4 | | 50 |
| Copper | 1.0 U | 1.0 UJ | 1.2 | 1.2 | 1.2 | 8.0 | 1.2 | 25 | 25 |
| Iron | 12,500 | 3,270 | 1,940 | 6,100 J | 5,100 | 187 | 1,370 J | 7,000 | 100 |
| Lead | 1.3 UJ | 1.3 R | 1.5 UJ | 1.5 | 1.5 | 1.5 | 2.4 UJ | 4.2 | 3 |
| Magnesium | — | — | — | — | 35,700 | 29,100 | 34,100 | | 5,000 |
| Manganese | — | — | — | — | 866 | 485 | 481 | | 15 |
| Mercury | 0.1 U | 0.1 UJ | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| Nickel | 5.0 B | 2.4 | 4.2 | 4.0 | 4.0 | 4.2 | 4.7 J | 96 | 40 |
| Potassium | — | — | — | — | 10,100 | 6,990 | 7,160 | | 5,000 |
| Selenium | 4.0 U | 4.0 R | 4.4 | 4.4 | 4.4 R | 4.4 UJ | 4.4 | 8.5 | 5 |
| Silver | 3.4 B | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.9 | 10 | 10 |
| Sodium | — | — | — | — | 28,300 | 27,900 | 28,600 | | 5,000 |
| Thallium | 3.6 UJ | 3.6 | 2.6 UJ | 2.6 | 2.6 UJ | 2.6 | 6.3 | 40 | 10 |
| Vanadium | — | — | — | — | 0.8 | 1.2 | 1.1 | | 50 |
| Zinc | 18.5 B | 0.8 UJ | 7.4 | 13.1 | 4.8 J | 0.6 | 0.7 UJ | 86 | 20 |
| **Inorganics - Metals and Cyanide (Total)** | | | | | | | | | |
| Aluminum | — | — | — | — | 1,080 | 452 | 5,090 J | | |
| Antimony | 6.7 B | 3.0 | 4.5 | 3.7 | 3.7 | 4.8 | 5.2 | | |
| Arsenic | 13.7 | 3.6 | 3.2 | 17.9 | 3.7 | 2.9 | 5.4 | | |
| Barium | 98.2 B | 84.4 | 69.5 | 202 | 91.3 | 44.1 | 108 J | | |
| Beryllium | 0.1 U | 0.1 | 0.1 | 0.2 | 0.1 | 0.2 | 0.6 | | |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 | 0.2 | 0.2 | 0.3 | 1.2 | | |
| Calcium | — | — | — | — | 190,000 | 187,000 | 217,000 J | | |
| Chromium | 4.4 B | 5.6 | 2.9 | 23.2 J | 2.1 | 1.9 | 8.1 J | | |
| Cobalt | — | — | — | — | 3.3 | 1.7 | 6.5 | | |
| Copper | 1.0 U | 1.0 UJ | 1.2 | 28.2 | 4.2 | 22.2 | 12.4 J | | |
| Cyanide | 4.0 U | 4.0 | 3.0 | 3.0 | 3.0 | 0.5 | 0.5 | 10 | 10 |
| Iron | 12,500 | 8,720 | 2,330 | 33,400 J | 8,640 | 2,430 | 17,500 J | | |
| Lead | 1.3 UJ | 1.3 R | 1.5 UJ | 19.7 J | 1.6 | 22.1 | 9.3 J | | |
| Magnesium | — | — | — | — | 37,500 | 30,000 | 45,200 J | | |
| Manganese | — | — | — | — | 922 | 527 | 751 J | | |
| Mercury | 0.1 U | 0.1 UJ | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | |
| Nickel | 5.0 B | 6.6 | 4.1 | 29.5 | 7.6 | 4.3 | 17.2 J | | |
| Potassium | — | — | — | — | 9,430 | 6,950 | 9,300 | | |
| Selenium | 4.0 U | 4.0 R | 4.4 | 4.4 R | 4.4 UJ | 4.4 UJ | 4.4 | | |
| Silver | 3.4 B | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.9 | | |
| Sodium | — | — | — | — | 27,700 | 27,000 | 30,300 J | | |
| Thallium | 3.6 UJ | 3.8 UJ | 2.6 UJ | 2.6 UJ | 2.6 | 2.6 | 6.3 | | |
| Vanadium | — | — | — | — | 0.8 | 2.1 | 3.4 | | |
| Zinc | 18.5 B | 9.9 J | 18.3 | 96.7 J | 13.8 J | 7.3 J | 22.4 UJ | | |
| **Volatile Organic Compounds (VOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| Carbon disulfide | 1.0 U | 1.0 U | 1.0 U | 1.4 | 1.0 U | 1.0 U | 1.0 U | | 10 |
| **Semi-Volatile Organic Compounds (SVOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| Bis(2-Chloroethyl)ether | | | | | | | 0.665 J | 13.6 | 10 |
| Bis (2-ethlyhexyl) phthalate | 57.0 J | 10.0 U | 10.0 U | 40.6 | 10.0 U | 10.0 U | 10.0 U | 49 | 10 |
| **Pesticides / PCBs** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

# Skinner Landfill
# West Chester, Ohio
# Groundwater Analysis Summary Table for Monitoring Well GW-62A

| | Sampling Event (All Results Expressed in Units of µg/l) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline Results | | | Quarterly Results | | | | | |
| Compound | December-02 | February-03 | May-03 | August-03 | November-03 | March-04 | May-04 | TRIGGER LEVEL | CRQL |
| **Inorganics - Metals (Dissolved)**[13] | | | | | | | | | |
| Aluminum | — | — | — | — | 25.8 | 25.8 | 55.3 | | 200 |
| Antimony | 12.7 B | 3.0 | 9.6 | 3.7 | 3.7 | 3.7 | 4.7 | 60 | 60 |
| Arsenic | 3.6 U | 3.6 | 2.9 | 2.9 | 2.9 | 2.9 | 5.4 | 20 | 10 |
| Barium | 157 B | 162 | 146 | 145 J | 126 | 111 | 117 | 1,000 | 200 |
| Beryllium | 0.1 U | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 5 | 5 |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 5 | 5 |
| Calcium | — | — | — | — | 123,000 | 122,000 | 122,000 | | 5,000 |
| Chromium | 4.1 B | 3.5 | 3.5 | 3.5 | 0.8 | 2.1 | 2.8 | 11 | 10 |
| Cobalt | — | — | — | — | 0.4 | 0.5 | 0.6 | | 50 |
| Copper | 5.2 B | 1.0 UJ | 4.4 | 2.4 | 2.7 | 1.2 | 1.2 | 25 | 25 |
| Iron | 4.9 U | 317 | 14.1 | 14.1 | 14.1 | 14.1 | 27.0 | 7,000 | 100 |
| Lead | 1.3 UJ | 1.3 R | 1.5 UJ | 1.5 | 1.5 | 1.5 | 2.4 | 4.2 | 3 |
| Magnesium | — | — | — | — | 49,200 | 48,700 | 47,700 | | 5,000 |
| Manganese | — | — | — | — | 51.4 | 164 J | 58.2 | | 15 |
| Mercury | 0.1 U | 0.1 UJ | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| Nickel | 2.7 B | 1.8 | 2.1 | 0.7 | 0.9 | 1.8 | 2.2 | 96 | 40 |
| Potassium | — | — | — | — | 10,800 | 11,100 | 10,900 | | 5,000 |
| Selenium | 4.0 U | 4.0 R | 4.4 | 4.4 | 4.4 R | 4.4 UJ | 4.4 R | 8.5 | 5 |
| Silver | 6.0 B | 0.5 | 0.5 | 0.4 | 0.4 | 0.4 | 0.9 | 10 | 10 |
| Sodium | — | — | — | — | 120,000 | 120,000 | 108,000 | | 5,000 |
| Thallium | 3.6 UJ | 3.6 | 2.6 UJ | 2.6 | 2.6 UJ | 2.6 | 6.3 UJ | 40 | 10 |
| Vanadium | — | — | — | — | 0.8 | 1.6 | 1.1 | | 50 |
| Zinc | 11.4 B | 0.8 UJ | 7.4 | 11.0 | 0.9 J | 0.6 UJ | 3.7 | 86 | 20 |
| **Inorganics - Metals and Cyanide (Total)** | | | | | | | | | |
| Aluminum | — | — | — | — | 24,100 | 13,200 | 4,100 | | |
| Antimony | 18.4 B | 3.0 | 4.7 | 3.7 | 3.7 | 6.1 | 8.0 | | |
| Arsenic | 17.0 | 20.7 | 8.7 | 18.3 | 17.7 | 8.3 J | 5.4 | | |
| Barium | 471 | 1,170 | 615 | 800 | 633 | 361 | 226 | | |
| Beryllium | 0.5 B | 1.7 | 0.8 | 1.1 | 1.5 | 1.1 | 0.3 | | |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 | 0.2 | 1.1 | 1.6 | 0.3 | | |
| Calcium | — | — | — | — | 618,000 | 337,000 | 231,000 | | |
| Chromium | 38.6 | 85.5 | 49.3 | 68.6 J | 49.5 | 29.6 | 10.7 | | |
| Cobalt | — | — | — | — | 33.5 | 15.6 | 5.4 | | |
| Copper | 42.3 | 76.1 UJ | 45.2 | 68 | 72.8 | 42.7 | 8.8 | | |
| Cyanide | 4.0 U | 4.0 | — | 3.0 | 3.0 | 1.0 | 0.5 | 10.0 | 10.0 |
| Iron | 34,000 | 85,100 | 51,500 | 65,400 J | 60,800 | 35,000 | 9,710 | | |
| Lead | 33.3 J | 68.0 UJ | 33.6 J | 65.2 J | 72.8 | 39.5 | 12.0 J | | |
| Magnesium | — | — | — | — | 137,000 | 88,000 | 57,500 | | |
| Manganese | — | — | — | — | 3,380 | 1,460 | 746 | | |
| Mercury | 0.1 U | 0.1 UJ | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | |
| Nickel | 38.1 B | 86.4 | 53.4 | 75.7 | 64.3 | 35.4 | 13.1 | | |
| Potassium | — | — | — | — | 15,100 | 13,900 | 12,100 | | |
| Selenium | 13.7 | 4.0 R | 4.4 | 4.4 R | 4.4 UJ | 4.4 UJ | 4.4 UJ | | |
| Silver | 5.4 B | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.9 | | |
| Sodium | — | — | — | — | 121,000 | 123,000 | 108,000 | | |
| Thallium | 3.6 UJ | 3.6 UJ | 2.6 UJ | 2.6 UJ | 2.6 | 6.9 J | 6.3 | | |
| Vanadium | — | — | — | — | 40.5 | 23.0 | 1.1 | | |
| Zinc | 119 | 242 J | 179 | 234 J | 181 J | 101 J | 34.7 | | |
| **Volatile Organic Compounds (VOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| **Semi-Volatile Organic Compounds (SVOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| **Pesticides / PCBs** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |

*Notes:*

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

# Skinner Landfill
# West Chester, Ohio
# Groundwater Analysis Summary Table for Monitoring Well GW-62B

| | Sampling Event (All Results Expressed in Units of µg/l) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline Results | | | Quarterly Results | | | | | |
| **Compound** | **December-02** | **February-03** | **May-03** | **August-03** | **November-03** | **March-05** | **May-04** | **TRIGGER LEVEL** | **CRQL** |
| **Inorganics - Metals (Dissolved)**[13] | Well is Dry | Well is Dry | Innsufficient Volume | Well is Dry | Well is Dry | Well is Dry | Insufficient Volume | | |
| **Inorganics - Metals and Cyanide (Total)** | — | — | — | — | — | — | — | | |
| **Volatile Organic Compounds (VOCs)** | — | — | BRL | — | — | — | BRL | | |
| 1,1-Dichloroethane | | | | | | | 1.9 | | 10 |
| Chlorobenzene | | | | | | | 0.29 J | 26 | 10 |
| Trichlorothane | | | | | | | 0.11 J | 5 | 10 |
| Xylene | | | | | | | 0.4 J | 10,000 | 10 |
| Benzene | — | — | 3.00 | — | — | — | 6.0 | 5 | 10 |
| **Semi-Volatile Organic Compounds (SVOCs)** | — | — | BRL | — | — | — | — | | |
| Bis (2-Chloroethyl) ether | — | — | 24.5 | — | — | — | — | 13.6 | 10 |
| **Pesticides / PCBs** | — | — | BRL | — | — | — | — | | |

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = No Sample Available (Well Dry)
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

# Skinner Landfill
# West Chester, Ohio
# Groundwater Analysis Summary Table for Monitoring Well GW-63

| | Sampling Event (All Results Expressed in Units of µg/l) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline Results | | | Quarterly Results | | | | | |
| Compound | December-02 | February-03 | May-03 | August-03 | November-03 | March-04 | May-04 | TRIGGER LEVEL | CRQL |
| **Inorganics - Metals (Dissolved)**[13] | | | | | | | | | |
| Aluminum | — | — | — | — | 25.8 | 25.8 | 82.4 | | 200 |
| Antimony | 13.8 B | 3.0 | 8.9 | 7.1 | 3.7 | 3.8 | 11.3 | 60 | 60 |
| Arsenic | 9.5 B | 3.6 | 2.9 | 2.9 | 5.4 | 2.9 | 5.4 | 20 | 10 |
| Barium | 76.2 B | 72.2 | 50.1 | 58.8 J | 68.6 | 20.1 | 29.9 J | 1,000 | 200 |
| Beryllium | 0.1 U | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.5 | 5 | 5 |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 | 0.2 | 0.2 | 0.2 | 1.3 | 5 | 5 |
| Calcium | — | — | — | — | 278,000 | 295,000 | 287,000 | | 5,000 |
| Chromium | 3 B | 3.6 | 3.4 | 3.2 | 0.8 | 1.8 | 1.5 UJ | 11 | 10 |
| Cobalt | — | — | — | — | 4.1 | 1.1 | 3.6 | | 50 |
| Copper | 1.0 U | 1.0 UJ | 1.2 | 1.2 | 1.2 | 2.0 J | 1.2 | 25 | 25 |
| Iron | 758 | 622 | 297 | 1,890 J | 1,150 | 21.4 | 620 J | 7,000 | 100 |
| Lead | 1.3 UJ | 1.3 R | 1.5 UJ | 1.5 | 1.5 | 1.5 | 2.4 UJ | 4.2 | 3 |
| Magnesium | — | — | — | — | 61,000 | 67,000 | 67,400 | | 5,000 |
| Manganese | — | — | — | — | 2,600 | 271 J | 1,840 J | | 15 |
| Mercury | 0.1 U | 0.1 UJ | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| Nickel | 7.4 B | 6.6 | 5.9 | 8.3 | 6.9 | 3.2 | 8.8 J | 96 | 40 |
| Potassium | — | — | — | — | 11,600 | 5,210 | 7,800 J | | 5,000 |
| Selenium | 8.7 | 4.0 R | 4.4 | 4.4 | 4.4 R | 4.4 UJ | 4.4 UJ | 8.5 | 5 |
| Silver | 3.6 B | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.9 | 10 | 10 |
| Sodium | — | — | — | — | 72,100 | 46,100 | 75,100 J | | 5,000 |
| Thallium | 3.6 UJ | 3.6 | 2.6 UJ | 2.6 | 2.6 UJ | 4.6 J | 6.3 | 40 | 10 |
| Vanadium | — | — | — | — | 0.8 | 0.8 | 1.1 | | 50 |
| Zinc | 7.8 B | 0.8 UJ | 12.9 | 10.8 | 3.7 J | 0.6 UJ | 0.7 UJ | 86 | 20 |
| **Inorganics - Metals and Cyanide (Total)** | | | | | | | | | |
| Aluminum | — | — | — | — | 10,500 | 26,600 | 44,700 J | | |
| Antimony | 20.2 B | 3.0 | 4.6 | 3.7 | 3.7 | 5.7 | 13.6 | | |
| Arsenic | 22.8 | 30.4 | 12.6 | 12.6 | 9.3 | 17.1 J | 9.7 J | | |
| Barium | 234 | 390 | 178 | 217 | 147 | 186 | 334 J | | |
| Beryllium | 1.0 B | 2.3 | 0.9 | 0.9 | 0.6 | 2.1 | 3.4 | | |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 | 0.2 | 0.2 | 2.5 | 3.9 | | |
| Calcium | — | — | — | — | 465,000 | 465,000 | 659,000 J | | |
| Chromium | 39.2 | 70.8 | 30.8 | 36.1 J | 13.7 | 38.2 | 66.8 J | | |
| Cobalt | — | — | — | — | 17.5 | 28.3 | 56.1 | | |
| Copper | 35.7 | 77.8 J | 29.3 | 33.0 | 17.4 | 69.2 | 104 J | | |
| Cyanide | 4.0 U | 4.0 | 3.0 | 3.0 | 3.0 | 0.5 | 1.2 | 10 | 10 |
| Iron | 55,500 | 109,000 | 44,100 | 53,900 J | 25,800 | 63,200 | 112,000 J | | |
| Lead | 21.2 J | 70.2 UJ | 28.5 J | 36 J | 23.4 | 41.0 | 76.4 J | | |
| Magnesium | — | — | — | — | 96,100 | 111,000 | 148,000 J | | |
| Manganese | — | — | — | — | 4,090 | 2,570 | 5,580 J | | |
| Mercury | 0.1 U | 0.1 UJ | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | |
| Nickel | 56.6 | 104 | 47.5 | 59.6 | 31.0 | 58.1 | 114 J | | |
| Potassium | — | — | — | — | 31,500 | 9,320 | 15,800 J | | |
| Selenium | 27.8 | 4.0 R | 4.4 | 4.4 R | 4.4 UJ | 4.4 UJ | 7.2 | | |
| Silver | 7.3 B | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.9 | | |
| Sodium | — | — | — | — | 73,600 | 45,000 | 81,700 J | | |
| Thallium | 3.6 U | 3.6 UJ | 2.6 UJ | 2.6 UJ | 2.6 | 8.5 J | 6.3 | | |
| Vanadium | — | — | — | — | 17.8 | 43 | 69.3 | | |
| Zinc | 160 | 267 J | 129 | 182 J | 66.3 J | 176 J | 292 J | | |
| **Volatile Organic Compounds (VOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| Acetone | 5.0 R | 5.0 U | 78.0 J | 5.0 U | 5.0 U | 5.0 R | 5.0 R | | 10 |
| Carbon disulfide | 1.0 U | 1.0 U | 1.0 U | 1.3 | 1.0 U | 1.0 U | 1.0 U | | 10 |
| **Semi-Volatile Organic Compounds (SVOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| Di-n-butylphthalate | | | | | | | 0.692 J | 10 | 10 |
| Butylbenzylphthalate | | | | | | 0.61 J | 10.0 U | 10 | 10 |
| **Pesticides / PCBs** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

# Skinner Landfill
# West Chester, Ohio
# Groundwater Analysis Summary Table for Monitoring Well GW-64

| | Sampling Event (All Results Expressed in Units of µg/l) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline Results | | | Quarterly Results | | | | | |
| Compound | December-02 | February-03 | May-03 | August-03 | November-03 | March-04 | May-04 | TRIGGER LEVEL | CRQL |
| **Inorganics - Metals (Dissolved)**[13] | | | | | | | | | |
| Aluminum | — | — | — | — | 25.8 | 25.8 | 55.3 | | 200 |
| Antimony | 12.3 B | 3.0 | 5.3 | 4.2 | 3.7 | 3.7 | 6.9 | 60 | 60 |
| Arsenic | 7.3 B | 3.6 | 2.9 | 2.9 | 2.9 | 2.9 | 5.4 | 20 | 10 |
| Barium | 53.5 B | 31.0 | 28.9 | 31.5 J | 44.6 | 28.3 | 29.3 | 1,000 | 200 |
| Beryllium | 0.1 U | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 5 | 5 |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 | 5 | 5 |
| Calcium | — | — | — | — | 185,000 | 176,000 | 170,000 | | 5,000 |
| Chromium | 20.4 | 4.9 | 6.5 | 3.8 | 0.8 | 1.7 | 3.5 | 11 | 10 |
| Cobalt | — | — | — | — | 0.5 | 1.8 | 1.2 | | 50 |
| Copper | 10.4 B | 1.0 UJ | 4.9 | 4.5 | 3.4 | 1.2 | 2.2 | 25 | 25 |
| Iron | 19,500 | 63.2 R | 52.6 | 14 | 14.1 | 14.1 | 35.5 | 7,000 | 100 |
| Lead | 3.7 J | 1.3 UJ | 1.5 UJ | 1.5 | 1.5 | 1.5 | 2.4 UJ | 4.2 | 3 |
| Magnesium | — | — | — | — | 61,800 | 56,700 | 55,100 | | 5,000 |
| Manganese | — | — | — | — | 292 | 1,170 J | 2,270 | | 15 |
| Mercury | 0.1 U | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| Nickel | 33.6 B | 12.8 R | 13.4 | 9.4 | 5.2 | 7.8 | 10.7 | 96 | 40 |
| Potassium | — | — | — | — | 12,300 | 12,900 | 17,500 | | 5,000 |
| Selenium | 4.6 B | 4.0 | 4.4 | 4.4 | 4.4 R | 4.4 UJ | 4.4 R | 8.5 | 5 |
| Silver | 5.7 B | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.9 | 10 | 10 |
| Sodium | — | — | — | — | 67,600 | 53,900 | 61,400 | | 5,000 |
| Thallium | 3.6 UJ | 3.6 | 2.6 UJ | 2.6 | 2.6 UJ | 2.6 | 6.3 UJ | 40 | 10 |
| Vanadium | — | — | — | — | 0.8 | 0.8 | 1.1 | | 50 |
| Zinc | 64.5 | 0.8 UJ | 9.1 | 16.1 | 2.6 J | 0.6 UJ | 0.7 | 86 | 20 |
| **Inorganics - Metals and Cyanide (Total)** | | | | | | | | | |
| Aluminum | — | — | — | — | 18,700 J | 3,080 | 3,440 | | |
| Antimony | 12.3 B | 3.0 | 5.6 | 3.7 | 3.7 | 4.9 | 4.8 | | |
| Arsenic | 7.3 B | 4.3 | 2.9 | 6.2 | 10.8 | 2.9 | 5.4 | | |
| Barium | 53.5 B | 59.5 | 47.9 | 58.3 | 95.9 | 37.1 | 36.6 | | |
| Beryllium | 0.1 U | 0.5 | 0.1 | 0.2 | 1.0 | 0.3 | 0.5 | | |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 | 0.2 | 0.2 | 0.2 | 0.7 | | |
| Calcium | — | — | — | — | 311,000 | 213,000 | 213,000 | | |
| Chromium | 20.4 | 22.9 | 14.8 | 22.4 J | 29.4 | 7.0 | 2.8 | | |
| Cobalt | — | — | — | — | 23.1 | 5.4 | 6.3 | | |
| Copper | 10.4 B | 2.2 J | 9.6 | 16.0 | 16.3 | 11.3 | 7.4 | | |
| Cyanide | 4.0 U | 4.0 | 3.0 | 3.0 | 3.0 | 1.3 | 0.5 | 10 | 10 |
| Iron | 19,500 | 25,900 | 14,700 | 24,300 J | 42,900 | 7,520 | 8,940 | | |
| Lead | 3.7 J | 8.1 UJ | 1.7 J | 9.7 J | 20.0 | 1.5 | 6.2 J | | |
| Magnesium | — | — | — | — | 77,300 | 66,000 | 56,200 | | |
| Manganese | — | — | — | — | 2,390 | 1,650 | 2,840 | | |
| Mercury | 0.1 U | 0.1 UJ | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | | |
| Nickel | 33.6 B | 38.3 | 26.1 | 33.9 | 46.0 | 16.4 | 20.3 | | |
| Potassium | — | — | — | — | 14,700 | 15,000 | 18,400 | | |
| Selenium | 4.6 B | 4.0 R | 4.4 | 4.4 R | 4.4 UJ | 4.4 UJ | 4.4 UJ | | |
| Silver | 5.7 B | 0.5 | 0.4 | 0.4 | 0.4 | 0.4 | 0.9 | | |
| Sodium | — | — | — | — | 68,300 | 59,800 | 58,200 | | |
| Thallium | 3.6 UJ | 3.6 UJ | 2.6 UJ | 2.6 UJ | 2.6 | 2.6 | 6.3 UJ | | |
| Vanadium | — | — | — | — | 27.3 | 5.3 | 1.1 | | |
| Zinc | 64.5 | 51.3 J | 69.1 | 73.6 J | 114 J | 13.6 J | 19.1 | | |
| **Volatile Organic Compounds (VOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| **Semi-Volatile Organic Compounds (SVOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| Bis (2-ethlyhexyl) phthalate | 10.0 U | 10.0 U | 10.0 U | 10.0 | 10.0 U | 10.0 | 10.0 U | 49 | 10 |
| **Pesticides / PCBs** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

# Skinner Landfill
# West Chester, Ohio
# Groundwater Analysis Summary Table for Monitoring Well GW-65

| | Sampling Event (All Results Expressed in Units of µg/l) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline Results | | | Quarterly Results | | | | | |
| **Compound** | **December-02** | **February-03** | **May-03** | **August-03** | **November-03** | **March-04** | **May-04** | **TRIGGER LEVEL** | **CRQL** |
| **Inorganics - Metals (Dissolved)[13]** | Insufficient Volume | Insufficient Volume | Insufficient Volume | Insufficient Volume | Insufficient Volume | Insufficient Volume | Insufficient Volume | | |
| Antimony | — | — | — | — | — | — | — | 60 | 60 |
| Arsenic | — | — | — | — | — | — | — | 10 | 10 |
| Barium | — | — | — | — | — | — | — | 1,000 | 200 |
| Beryllium | — | — | — | — | — | — | — | 5 | 5 |
| Cadmium | — | — | — | — | — | — | — | 5 | 5 |
| Chromium | — | — | — | — | — | — | — | 11 | 10 |
| Copper | — | — | — | — | — | — | — | 25 | 25 |
| Iron | — | — | — | — | — | — | — | 5,000 | 100 |
| Lead | — | — | — | — | — | — | — | 4.2 | 3 |
| Mercury | — | — | — | — | — | — | — | 0.2 | 0.2 |
| Nickel | — | — | — | — | — | — | — | 96 | 40 |
| Selenium | — | — | — | — | — | — | — | 5 | 5 |
| Silver | — | — | — | — | — | — | — | 10 | 10 |
| Thallium | — | — | — | — | — | — | — | 40 | 10 |
| Zinc | — | — | — | — | — | — | — | 86 | 20 |
| **Inorganics - Metals and Cyanide (Total)** | | | | | | | | | |
| Antimony | — | — | — | — | — | — | — | | |
| Arsenic | — | — | — | — | — | — | — | | |
| Barium | — | — | — | — | — | — | — | | |
| Beryllium | — | — | — | — | — | — | — | | |
| Cadmium | — | — | — | — | — | — | — | | |
| Chromium | — | — | — | — | — | — | — | | |
| Copper | — | — | — | — | — | — | — | | |
| Cyanide | — | — | — | — | — | — | — | 10 | 10 |
| Iron | — | — | — | — | — | — | — | | |
| Lead | — | — | — | — | — | — | — | | |
| Mercury | — | — | — | — | — | — | — | | |
| Nickel | — | — | — | — | — | — | — | | |
| Selenium | — | — | — | — | — | — | — | | |
| Silver | — | — | — | — | — | — | — | | |
| Thallium | — | — | — | — | — | — | — | | |
| Zinc | — | — | — | — | — | — | — | | |
| **Volatile Organic Compounds (VOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| **Semi-Volatile Organic Compounds (SVOCs)** | BRL | BRL | BRL | BRL | BRL | — | BRL | | |
| 4-Nitrophenol | 29.8 UJ | 10.0 U | 10.0 U | 10.0 U | 10.0 U | — | 10.0 U | 150 | 25 |
| Bis (2-ethlyhexyl) phthalate | 11.9 U | 10.0 U | 10.0 U | 10.0 U | 10.0 U | — | 10.0 U | 49 | 10 |
| **Pesticides / PCBs** | — | — | — | — | — | — | — | | |

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = No Sample Available (Well Dry)
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a 0.45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

# Skinner Landfill
# West Chester, Ohio
# Groundwater Analysis Summary Table for Creek Surface Water Sample Location SW-50

| | Sampling Event (All Results Expressed in Units of µg/l) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline Results | | | Quarterly Results | | | | | |
| Compound | December-02 | February-03 | May-03 | August-03 | November-03 | March-04 | May-04 | TRIGGER LEVEL | CRQL |
| **Inorganics - Metals (Dissolved)**[13] | | | | | | | | | |
| Aluminum | — | — | — | — | 25.8 | 25.8 | 74.3 | | 200 |
| Antimony | 9.7 B | 3.0 U | 9.7 B | 3.7 | 3.7 | 3.7 | 4.7 | 60 | 60 |
| Arsenic | 3.6 U | 3.6 U | 3.6 U | 7.1 | 2.9 | 2.9 | 5.4 | 20 | 10 |
| Barium | 50.9 B | 57.7 B | 50.9 B | 55.2 | 40.0 | 35.8 | 50.9 | 1,000 | 200 |
| Beryllium | 0.1 U | 0.1 U | 0.1 U | 0.1 | 0.1 | 0.1 | 0.3 | 5 | 5 |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 U | 0.2 | 0.2 | 0.2 | 1.2 | 5 | 5 |
| Calcium | — | — | — | — | 84,100 | 103,000 | 92,300 | | 5,000 |
| Chromium | 2.9 B | 2.1 B | 2.9 B | 1.8 | 0.8 | 1.6 | 1.5 UJ | 11 | 10 |
| Cobalt | — | — | — | — | 0.5 | 0.4 | 0.6 | | 50 |
| Copper | 1.0 U | 1.0 UJ | 1.0 U | 3.1 | 4.4 | 4.3 | 1.4 | 25 | 25 |
| Iron | 4.9 U | 129 | 4.9 U | 14.1 | 14.1 | 14.1 | 36.5 | 7,000 | 100 |
| Lead | 1.3 U | 1.3 R | 1.3 U | 1.5 | 1.5 | 1.5 | 2.4 | 4.2 | 3 |
| Magnesium | — | — | — | — | 23,400 | 29,700 | 28,600 | | 5,000 |
| Manganese | — | — | — | — | 3.8 | 30.0 J | 5.0 | | 15 |
| Mercury | 0.1 U | 0.1 U | 0.1 U | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| Nickel | 1.7 B | 0.8 B | 1.7 B | 0.7 | 0.7 | 1.0 | 2.8 | 96 | 40 |
| Potassium | — | — | — | — | 3,840 | 2,980 | 3,160 | | 5,000 |
| Selenium | 4.0 UJ | 4.0 R | 4.0 UJ | 4.4 | 4.4 R | 4.4 R | 4.4 UJ | 8.5 | 5 |
| Silver | 4.1 B | 0.5 U | 4.1 B | 0.4 | 0.4 | 0.4 | 0.9 | 10 | 10 |
| Sodium | — | — | — | — | 32,100 | 59,200 | 38,700 | | 5,000 |
| Thallium | 3.6 U | 4.3 J | 3.6 U | 6.8 J | 2.6 | 2.6 | 6.3 | 40 | 10 |
| Vanadium | — | — | — | — | 0.8 | 2.2 | 1.1 | | 50 |
| Zinc | 11.0 B | 0.8 UJ | 11.0 B | 13.8 | 0.6 UJ | 0.6 | 0.7 UJ | 86 | 20 |
| **Inorganics - Metals and Cyanide (Total)** | | | | | | | | | |
| Aluminum | — | — | — | — | 25.8 | 62,300 J | 100 | | |
| Antimony | 9.3 B | 3.0 U | 9.3 B | 3.7 | 3.7 | 7.3 J | 3.9 | | |
| Arsenic | 3.6 U | 3.6 U | 3.6 U | 2.9 | 3.4 | 50.7 J | 5.4 | | |
| Barium | 50.7 B | 58.1 B | 50.7 B | 55.4 | 41.3 | 499 J | 53.0 | | |
| Beryllium | 0.1 U | 0.1 U | 0.1 U | 0.1 | 0.1 | 4.9 | 0.2 | | |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 U | 0.2 | 0.2 | 5.0 | 0.9 | | |
| Calcium | — | — | — | — | 86,400 | 427,000 J | 93,500 | | |
| Chromium | 3.2 B | 2.3 B | 3.2 B | 1.7 | 0.8 | 72.6 J | 1.5 | | |
| Cobalt | — | — | — | — | 0.4 | 59.7 | 0.6 | | |
| Copper | 4.4 B | 5.7 J | 4.4 B | 2.5 | 4.4 | 131 J | 1.2 | | |
| Cyanide | 4.0 U | 4.0 U | 4.0 U | 3.0 | 3.0 | 0.8 | 0.5 | 10 | 10 |
| Iron | 4.9 U | 141 | 4.9 U | 23.5 | 69.2 | 124,000 J | 102 | | |
| Lead | 1.3 U | 1.3 R | 1.3 U | 1.5 | 1.5 | 122 J | 2.4 | | |
| Magnesium | — | — | — | — | 23,900 | 80,300 | 30,200 | | |
| Manganese | — | — | — | — | 5.8 | 5,690 | 8.1 | | |
| Mercury | 0.1 U | 0.1 U | 0.1 U | 0.1 | 0.1 | 0.1 | 0.1 | | |
| Nickel | 1.3 B | 0.5 U | 1.3 B | 1.5 | 0.7 | 116 J | 1.1 | | |
| Potassium | — | — | — | — | 3,990 | 12,200 | 3,230 | | |
| Selenium | 4.0 U | 4.0 R | 4.0 U | 4.4 UJ | 4.4 R | 4.4 R | 4.4 | | |
| Silver | 4.3 B | 0.5 U | 4.3 B | 0.4 | 0.4 | 0.4 | 0.9 | | |
| Sodium | — | — | — | — | 33,000 | 60,200 | 40,300 | | |
| Thallium | 3.6 UJ | 3.6 UJ | 3.6 UJ | 5.5 J | 2.6 | 2.6 | 6.3 | | |
| Vanadium | — | — | — | — | 0.8 | 105 | 1.1 | | |
| Zinc | 13.1 B | 2.0 J | 13.1 B | 10.9 | 1.3 J | 490 J | 0.7 UJ | | |
| **Volatile Organic Compounds (VOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| **Semi-Volatile Organic Compounds (SVOCs)** | BRL | BRL | BRL | BRL | BRL | 10.0 U | BRL | | |
| Fluoranthene | | | | | | 0.84 J | 10.0 U | 10 | 10 |
| Phenanthrene | | | | | | 0.79 J | 10.0 U | 10 | 10 |
| Pyrene | | | | | | 0.67 J | 10.0 U | | 10 |
| Diethylphthalate | | | | | 2.17 J | 10.0 U | 10.0 U | | 10 |
| **Pesticides / PCBs** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |

Notes:
1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a .45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

# Skinner Landfill
## West Chester, Ohio
## Groundwater Analysis Summary Table for Creek Surface Water Sample Location SW-51

| | Sampling Event (All Results Expressed in Units of µg/l) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline Results | | | Quarterly Results | | | | | |
| Compound | December-02 | February-03 | May-03 | August-03 | November-03 | March-04 | May-04 | TRIGGER LEVEL | CRQL |
| **Inorganics - Metals (Dissolved)**[13] | | | | | | | | | |
| Aluminum | — | — | — | — | 25.8 | 25.8 | 89.6 | | 200 |
| Antimony | 8.7 B | 3.0 U | 8.7 B | 3.7 | 3.7 | 3.7 | 3.9 | **60** | 60 |
| Arsenic | 3.6 U | 3.6 U | 3.6 U | 5.3 | 3.2 | 2.9 | 5.4 | **20** | 10 |
| Barium | 54.8 B | 59.4 B | 54.8 B | 49.9 | 42.2 | 36.7 | 46.2 | **1,000** | 200 |
| Beryllium | 0.1 U | 0.1 U | 0.1 U | 0.1 | 0.1 | 0.1 | 0.3 | **5** | 5 |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 U | 0.2 | 0.2 | 0.2 | 1.2 | **5** | 5 |
| Calcium | — | — | — | — | 88,800 | 106,000 | 89,600 | | 5,000 |
| Chromium | 2.7 B | 2.5 B | 2.7 B | 0.8 | 0.8 | 1.7 | 1.5 UJ | **11** | 10 |
| Cobalt | — | — | — | — | 0.4 | 0.4 | 0.6 | | 50 |
| Copper | 1.0 U | 1.0 UJ | 1.0 U | 2.2 | 5.1 | 3.0 | 1.2 | **25** | 25 |
| Iron | 4.9 U | 11.9 B | 4.9 U | 14.1 | 14.1 | 14.1 | 41.5 | **7,000** | 100 |
| Lead | 1.3 U | 1.3 R | 1.3 U | 1.5 | 1.5 | 1.5 | 2.4 UJ | **4.2** | 3 |
| Magnesium | — | — | — | — | 24,700 | 31,500 | 29,200 | | 5,000 |
| Manganese | — | — | — | — | 4.6 | 29.9 J | 4.3 | | 15 |
| Mercury | 0.1 U | 0.1 U | 0.1 U | 0.1 | 0.1 | 0.1 | 0.1 | **0.2** | 0.2 |
| Nickel | 1.7 B | 0.5 U | 1.7 B | 0.7 | 0.7 | 2.4 | 2.5 | **96** | 40 |
| Potassium | — | — | — | — | 3,910 | 2,160 | 3,010 | | 5,000 |
| Selenium | 4.0 UJ | 4.0 R | 4.0 UJ | 4.4 | 4.4 R | 4.4 R | 4.4 UJ | **8.5** | 5 |
| Silver | 3.3 B | 0.5 U | 3.3 B | 0.4 | 0.4 | 0.4 | 0.9 | **10** | 10 |
| Sodium | — | — | — | — | 34,000 | 60,200 | 41,100 | | 5,000 |
| Thallium | 3.6 U | 3.6 UJ | 3.6 U | 10.6 | 2.6 | 2.6 | 6.3 | **40** | 10 |
| Vanadium | — | — | — | — | 0.8 | 2.4 | 1.1 | | 50 |
| Zinc | 26.8 | 0.8 UJ | 26.8 | 13.9 | 0.6 UJ | 3.4 | 0.7 UJ | **86** | 20 |
| **Inorganics - Metals and Cyanide (Total)** | | | | | | | | | |
| Aluminum | — | — | — | — | 25.8 | 9,250 J | 55.3 | | |
| Antimony | 7.8 B | 3.0 U | 7.8 B | 3.7 | 3.7 | 3.7 UJ | 4.6 | | |
| Arsenic | 3.6 U | 3.6 U | 3.6 U | 2.9 | 2.9 | 11.1 J | 5.4 | | |
| Barium | 51.8 B | 59.3 B | 51.8 B | 50.9 | 42.6 | 112 J | 48.9 | | |
| Beryllium | 0.1 U | 0.1 U | 0.1 U | 0.1 | 0.1 | 0.7 | 0.2 | | |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 U | 0.2 | 0.2 | 0.5 | 0.7 | | |
| Calcium | — | — | — | — | 86,700 | 153,000 J | 89,900 | | |
| Chromium | 2.7 B | 2.8 B | 2.7 B | 1.7 | 0.8 | 12.7 J | 1.5 UJ | | |
| Cobalt | — | — | — | — | 0.4 | 7.8 | 0.6 | | |
| Copper | 1.0 U | 1.0 UJ | 1.0 U | 1.9 | 3.2 | 22.0 J | 1.2 | | |
| Cyanide | 4.0 U | 4.0 U | 4.0 U | 3.0 | 3.0 | 0.6 | 0.5 | **10** | 10 |
| Iron | 10.0 B | 74.8 B | 10.0 B | 49.5 | 83.8 | 17,800 J | 63.6 | | |
| Lead | 1.3 U | 1.3 R | 1.3 U | 1.5 | 1.5 | 17.3 J | 2.4 | | |
| Magnesium | — | — | — | — | 23,900 | 38,900 J | 26,900 | | |
| Manganese | — | — | — | — | 6.5 | 685 J | 7.1 | | |
| Mercury | 0.1 U | 0.1 U | 0.1 U | 0.1 | 0.1 | 0.1 | 0.1 | | |
| Nickel | 1.1 B | 0.5 U | 1.1 B | 0.7 | 0.7 | 16.4 J | 1.3 | | |
| Potassium | — | — | — | — | 3,820 | 4,470 | 2,870 | | |
| Selenium | 4.0 U | 4.0 R | 4.0 U | 4.4 UJ | 4.4 R | 4.4 R | 4.4 UJ | | |
| Silver | 3.0 B | 0.5 U | 3.0 B | 0.4 | 0.4 | 0.4 | 0.9 | | |
| Sodium | — | — | — | — | 32,800 | 61,800 | 40,900 | | |
| Thallium | 3.6 UJ | 3.6 U | 3.6 UJ | 5.9 J | 2.6 | 2.6 | 6.3 | | |
| Vanadium | — | — | — | — | 0.8 | 18.7 J | 1.1 | | |
| Zinc | 12.7 B | 7.8 J | 12.7 B | 9.7 | 0.6 UJ | 52.9 J | 0.7 UJ | | |
| **Volatile Organic Compounds (VOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| **Semi-Volatile Organic Compounds (SVOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| **Pesticides / PCBs** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |

Notes:
1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a .45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

EarthTech
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# Skinner Landfill
## West Chester, Ohio
## Groundwater Analysis Summary Table for Creek Surface Water Sample Location SW-52

| | Sampling Event (All Results Expressed in Units of µg/l) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline Results | | | Quarterly Results | | | | | |
| Compound | December-02 | February-03 | May-03 | August-03 | November-03 | March-04 | May-04 | TRIGGER LEVEL | CRQL |
| **Inorganics - Metals (Dissolved)**[13] | | | | | | | | | |
| Aluminum | — | — | — | — | 25.8 | 25.8 | 81.9 | | 200 |
| Antimony | 6.5 B | 3.0 U | 6.5 B | 3.7 | 3.7 | 3.7 | 5.5 | 60 | 60 |
| Arsenic | 3.6 U | 3.6 U | 3.6 U | 4.9 | 2.9 | 2.9 | 5.4 | 20 | 10 |
| Barium | 52.8 B | 57.7 B | 52.8 B | 54.2 | 40.7 | 40.7 | 50.7 | 1,000 | 200 |
| Beryllium | 0.1 U | 0.1 U | 0.1 U | 0.1 | 0.1 | 0.1 | 0.3 | 5 | 5 |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 U | 0.2 | 0.2 | 0.2 | 1.1 | 5 | 5 |
| Calcium | — | — | — | — | 86,000 | 107,000 | 92,700 | | 5,000 |
| Chromium | 2.8 B | 3.5 B | 2.8 B | 2.1 | 0.8 | 1.3 | 1.5 UJ | 11 | 10 |
| Cobalt | — | — | — | — | 0.4 | 0.4 | 0.6 | | 50 |
| Copper | 1.0 U | 1.0 UJ | 1.0 U | 2.3 | 3.7 | 2.0 | 1.5 | 25 | 25 |
| Iron | 4.9 U | 575 | 4.9 U | 14.1 | 14.1 | 14.1 | 52.3 | 7,000 | 100 |
| Lead | 1.3 U | 1.3 R | 1.3 U | 1.5 | 1.5 | 1.5 | 2.4 UJ | 4.2 | 3 |
| Magnesium | — | — | — | — | 23,500 | 30,700 | 29,200 | | 5,000 |
| Manganese | — | — | — | — | 5.0 | 1.5 J | 5.1 | | 15 |
| Mercury | 0.1 U | 0.1 U | 0.1 U | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 |
| Nickel | 1.2 B | 1.5 B | 1.2 B | 1.1 | 0.7 | 0.7 | 2.1 | 96 | 40 |
| Potassium | — | — | — | — | 3,720 | 1,900 | 3,260 | | 5,000 |
| Selenium | 4.0 UJ | 4.0 R | 4.0 UJ | 4.4 | 4.4 R | 4.4 R | 4.4 UJ | 8.5 | 5 |
| Silver | 3.5 B | 0.5 U | 3.5 B | 0.4 | 0.4 | 0.4 | 0.9 | 10 | 10 |
| Sodium | — | — | — | — | 32,900 | 61,400 | 39,400 | | 5,000 |
| Thallium | 3.6 U | 3.6 UJ | 3.6 U | 6.2 J | 2.6 | 2.6 | 6.3 | 40 | 10 |
| Vanadium | — | — | — | — | 0.8 | 1.9 | 1.1 | | 50 |
| Zinc | 15.8 B | 0.8 UJ | 15.8 B | 26.5 | 1.5 J | 4.5 | 0.7 UJ | 86 | 20 |
| **Inorganics - Metals and Cyanide (Total)** | | | | | | | | | |
| Aluminum | — | — | — | — | 25.8 | 26.8 J | 100 | | |
| Antimony | 5.9 B | 3.0 U | 5.9 B | 3.7 | 3.7 | 3.7 UJ | 3.9 | | |
| Arsenic | 3.6 U | 3.6 U | 3.6 U | 2.9 | 2.9 | 2.9 | 5.4 | | |
| Barium | 53.2 B | 58.4 B | 53.2 B | 54.4 | 41.2 | 41.7 J | 51.6 | | |
| Beryllium | 0.1 U | 0.1 U | 0.1 U | 0.1 | 0.1 | 0.1 | 0.2 | | |
| Cadmium | 0.2 U | 0.2 UJ | 0.2 U | 0.2 | 0.2 | 0.2 | 1.1 | | |
| Calcium | — | — | — | — | 84,800 | 108,000 J | 98,900 | | |
| Chromium | 3.7 B | 2.4 B | 3.7 B | 1.5 | 0.8 | 1.7 J | 1.5 UJ | | |
| Cobalt | — | — | — | — | 0.4 | 0.5 | 0.6 | | |
| Copper | 1.0 U | 1.0 UJ | 1.0 U | 1.7 | 3.3 | 3.2 J | 1.2 | | |
| Cyanide | 4.0 U | 4.0 B | 4.0 U | 3.0 | 3.0 | 0.5 J | 0.5 | 10 | 10 |
| Iron | 28.2 B | 76.7 R | 28.2 B | 45.9 | 79.6 | 67.8 J | 81.7 | | |
| Lead | 1.3 U | 1.3 R | 1.3 U | 1.5 | 1.5 | 1.5 | 2.4 | | |
| Magnesium | — | — | — | — | 23,300 | 31,100 J | 29,700 | | |
| Manganese | — | — | — | — | 6.8 | 3.2 J | 9.8 | | |
| Mercury | 0.1 U | 0.1 U | 0.1 U | 0.1 | 0.1 | 0.1 J | 0.1 | | |
| Nickel | 1.9 B | 0.5 U | 1.9 B | 0.7 | 0.7 | 1.1 J | 1.4 | | |
| Potassium | — | — | — | — | 3,710 | 1,900 | 2,940 | | |
| Selenium | 4.0 U | 4.0 R | 4.0 U | 4.4 UJ | 4.4 R | 4.4 R | 4.4 UJ | | |
| Silver | 3.3 B | 0.5 U | 3.3 B | 0.4 | 0.4 | 0.6 | 0.9 | | |
| Sodium | — | — | — | — | 32,800 | 61,200 | 40,000 | | |
| Thallium | 3.6 UJ | 3.6 U | 3.6 UJ | 6.0 J | 2.6 | 2.6 | 10.2 J | | |
| Vanadium | — | — | — | — | 0.8 | 2.2 J | 1.1 | | |
| Zinc | 12.6 B | 6.0 J | 12.6 B | 8.7 | 0.6 UJ | 0.6 | 0.7 UJ | | |
| **Volatile Organic Compounds (VOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| **Semi-Volatile Organic Compounds (SVOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| **Pesticides / PCBs** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a .45 micron, gravity flow filter.
14) *Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.*

# Skinner Landfill
## West Chester, Ohio
## Groundwater Analysis Summary Table for Outfall Surface Water Run Off Location SWD-1

| | Sampling Event (All Results Expressed in Units of µg/l) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline Results | | | Quarterly Results | | | | | |
| Compound | December-02 | February-03 | May-03 | August-03 | November-03 | March-04 | May-04 | TRIGGER LEVEL | CRQL |
| **Inorganics - Metals (Dissolved)**[13] | | Location is Dry | | | Location is Dry | Location is Dry | Location is Dry | | |
| Antimony | 3.3 B | — | 5.7 B | 3.7 | — | — | — | 60 | 60 |
| Arsenic | 4.3 B | — | 2.9 U | 2.9 | — | — | — | 10 | 10 |
| Barium | 33.0 B | — | 22.0 B | 20.8 | — | — | — | 1,000 | 200 |
| Beryllium | 0.1 U | — | 0.1 U | 0.1 | — | — | — | 5 | 5 |
| Cadmium | 0.2 U | — | 0.2 U | 0.2 | — | — | — | 5 | 5 |
| Chromium | 2.1 B | — | 2 B | 0.8 | — | — | — | 11 | 10 |
| Copper | 2.4 B | — | 9 B | 5.1 | — | — | — | 25 | 25 |
| Iron | 4.9 U | — | 14.1 U | 14.1 | — | — | — | 5,000 | 100 |
| Lead | 1.3 U | — | 1.5 UJ | 1.5 | — | — | — | 4.2 | 3 |
| Mercury | 0.1 U | — | 0.1 U | 0.1 | — | — | — | 0.2 | 0.2 |
| Nickel | 1.7 B | — | 1.3 B | 1.5 | — | — | — | 96 | 40 |
| Selenium | 4.0 U | — | 4.4 U | 4.4 | — | — | — | 5 | 5 |
| Silver | 2.6 B | — | 0.4 U | 0.4 | — | — | — | 10 | 10 |
| Thallium | 3.6 U | — | 2.6 UJ | 2.6 | — | — | — | 40 | 10 |
| Zinc | 93.7 | — | 76.2 | 48.0 J | — | — | — | 86 | 20 |
| **Inorganics - Metals and Cyanide (Total)** | | | | | | | | | |
| Antimony | 6.7 B | — | 5.8 B | 3.7 | — | — | — | | |
| Arsenic | 7.2 B | — | 2.9 U | 2.9 | — | — | — | | |
| Barium | 36.1 B | — | 26.4 B | 21.7 | — | — | — | | |
| Beryllium | 0.1 U | — | 0.1 U | 0.1 | — | — | — | | |
| Cadmium | 0.2 U | — | 0.1 U | 0.2 | — | — | — | | |
| Chromium | 1.9 B | — | 0.2 B | 0.8 | — | — | — | | |
| Copper | 6.3 B | — | 3.6 B | 24.0 | — | — | — | | |
| Cyanide | 4.0 U | — | 3.0 U | 3.0 | — | — | — | 10 | 10 |
| Iron | 768 | — | 461 | 72.2 | — | — | — | | |
| Lead | 1.3 U | — | 1.5 UJ | 1.5 | — | — | — | | |
| Mercury | 0.1 U | — | 0.1 U | 0.1 | — | — | — | | |
| Nickel | 3.7 B | — | 1.3 B | 1.4 | — | — | — | | |
| Selenium | 4.0 U | — | 4.4 U | 4.4 UJ | — | — | — | | |
| Silver | 2.0 B | — | 0.4 U | 0.4 | — | — | — | | |
| Thallium | 3.6 UJ | — | 2.6 U | 2.6 UJ | — | — | — | | |
| Zinc | 102 | — | 167 | 91.1 J | — | — | — | | |
| **Volatile Organic Compounds (VOCs)** | BRL | — | BRL | BRL | — | — | — | | |
| **Semi-Volatile Organic Compounds (SVOCs)** | BRL | — | BRL | BRL | — | — | — | | |
| **Pesticides / PCBs** | BRL | — | BRL | BRL | — | — | — | | |

Notes:

1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = No Sample Available (location is dry)
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a .45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

# Skinner Landfill
## *West Chester, Ohio*
## Groundwater Analysis Summary Table for Outfall Surface Water Run Off Location SWD-2

| | Sampling Event (All Results Expressed in Units of μg/l) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline Results | | | Quarterly Results | | | | | |
| **Compound** | **December-02** | **February-03** | **May-03** | **August-03** | **November-03** | **March-04** | **May-05** | **TRIGGER LEVEL** | **CRQL** |
| **Inorganics - Metals (Dissolved)**[13] | Location is Dry | | | | Location is Dry | Location is Dry | Location is Dry | | |
| Antimony | — | 3.9 B | 4.6 B | 3.7 | — | — | — | 60 | 60 |
| Arsenic | — | 3.6 U | 2.9 U | 2.9 | — | — | — | 10 | 10 |
| Barium | — | 15.9 B | 20.4 B | 29.1 | — | — | — | 1,000 | 200 |
| Beryllium | — | 0.1 B | 0.1 U | 0.1 | — | — | — | 5 | 5 |
| Cadmium | — | 0.2 U | 0.2 U | 0.2 | — | — | — | 5 | 5 |
| Chromium | — | 0.7 U | 2.4 B | 0.8 | — | — | — | 11 | 10 |
| Copper | — | 2.3 B | 5.0 B | 1.2 | — | — | — | 25 | 25 |
| Iron | — | 4.9 U | 14.1 U | 14.1 | — | — | — | 5,000 | 100 |
| Lead | — | 1.3 U | 1.5 UJ | 1.5 | — | — | — | 4.2 | 3 |
| Mercury | — | 0.1 U | 0.1 U | 0.1 | — | — | — | 0.2 | 0.2 |
| Nickel | — | 1.8 B | 2.8 B | 2.3 | — | — | — | 96 | 40 |
| Selenium | — | 4.0 U | 4.4 U | 4.4 | — | — | — | 5 | 5 |
| Silver | — | 0.5 U | 0.4 U | 0.4 | — | — | — | 10 | 10 |
| Thallium | — | 7.1 B | 2.6 U | 2.6 | — | — | — | 40 | 10 |
| Zinc | — | 1.0 B | 5.5 B | 23.6 J | — | — | — | 86 | 20 |
| **Inorganics - Metals and Cyanide (Total)** | | | | | | | | | |
| Antimony | — | 8.5 B | 5.0 B | 4.0 | — | — | — | | |
| Arsenic | — | 3.6 U | 2.9 U | 2.9 | — | — | — | | |
| Barium | — | 15.6 B | 21.7 B | 28.4 | — | — | — | | |
| Beryllium | — | 0.1 U | 0.1 U | 0.1 | — | — | — | | |
| Cadmium | — | 0.2 U | 0.2 U | 0.2 | — | — | — | | |
| Chromium | — | 2.2 B | 2.1 B | 0.8 | — | — | — | | |
| Copper | — | 10.9 B | 2.8 B | 11.7 | — | — | — | | |
| Cyanide | — | 4.0 U | — | 3.0 | — | — | — | 10 | 10 |
| Iron | — | 20.6 B | 131 | 17.4 | — | — | — | | |
| Lead | — | 1.3 U | 1.5 UJ | 1.5 | — | — | — | | |
| Mercury | — | 0.1 U | 0.1 U | 0.1 | — | — | — | | |
| Nickel | — | 2.8 B | 2.6 B | 2.4 | — | — | — | | |
| Selenium | — | 4.0 UJ | 4.4 U | 4.4 UJ | — | — | — | | |
| Silver | — | 0.5 U | 0.4 U | 0.4 | — | — | — | | |
| Thallium | — | 3.6 U | 2.6 UJ | 2.6 UJ | — | — | — | | |
| Zinc | — | 4.5 B | 14.7 B | 30.0 J | — | — | — | | |
| **Volatile Organic Compounds (VOCs)** | — | — | — | BRL | — | — | — | | |
| bis(2-Chloroethly) ether | — | — | — | | — | — | — | 13.6 | 10.0 |
| **Semi-Volatile Organic Compounds (SVOCs)** | — | BRL | BRL | BRL | — | — | — | | |
| **Pesticides / PCBs** | — | BRL | BRL | BRL | — | — | — | | |

Notes:

1) All results expressed in micrograms per liter (μg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) *Bold red letters with a thick outline indicates a detection above the Trigger Level.*
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = No Sample Available (location is dry)
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a .45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

# Skinner Landfill
## West Chester, Ohio
## Groundwater Analysis Summary Table for Outfall Surface Water Run Off Location SWD-3

| | Sampling Event (All Results Expressed in Units of μg/l) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Baseline Results | | | Quarterly Results | | | | | |
| Compound | December-02 | February-03 | May-03 | August-03 | November-03 | March-04 | May-04 | TRIGGER LEVEL | CRQL |
| **Inorganics - Metals (Dissolved)**[13] | | | | | | | | | |
| Aluminum | — | — | — | — | 98.7 | 34.6 | 55.3 | | 200 |
| Antimony | 6.5 B | 3.5 B | 3.7 U | 3.7 | 3.7 | 3.7 | 3.9 | 60 | 60 |
| Arsenic | 3.6 U | 3.6 U | 2.9 U | 2.9 | 2.9 | 5.3 | 5.4 | 20 | 10 |
| Barium | 13.3 B | 34.1 B | 26.6 B | 19.1 | 40.1 | 29.8 | 32.7 | 1,000 | 200 |
| Beryllium | 0.1 U | 0.3 B | 0.1 U | 0.1 | 0.1 | 0.2 | 0.2 | 5 | 5 |
| Cadmium | 0.2 U | 0.2 U | 0.2 U | 0.2 | 0.2 | 0.2 | 0.3 | 5 | 5 |
| Calcium | — | — | — | — | 130,000 | 125,000 | 107,000 | | 5,000 |
| Chromium | 2.7 B | 0.7 U | 2.3 B | 0.8 | 1.4 | 0.8 | 1.5 | 11 | 10 |
| Cobalt | — | — | — | — | 0.4 | 0.4 | 0.6 | | 50 |
| Copper | 1.0 U | 1.0 U | 2.3 B | 1.2 | 10.4 | 4.6 J | 1.2 | 25 | 25 |
| Iron | 4.9 U | 59.5 B | 14.7 B | 14.1 | 59.0 | 17.2 | 22.2 | 7,000 | 100 |
| Lead | 1.3 U | 1.3 U | 1.5 UJ | 1.5 | 1.5 | 1.5 | 2.4 | 4.2 | 3 |
| Magnesium | — | — | — | — | 28,500 | 30,400 | 27,800 | | 5,000 |
| Manganese | — | — | — | — | 10.9 | 3.0 | 77.2 | | 15 |
| Mercury | 0.1 U | 0.1 U | 0.1 U | 0.1 | 0.1 UJ | 0.1 | 0.1 | 0.2 | 0.2 |
| Nickel | 2.6 B | 0.5 U | 1.1 B | 1.1 | 0.7 | 1.4 | 1.2 | 96 | 40 |
| Potassium | — | — | — | — | 3,870 | 3,570 | 4,200 | | 5,000 |
| Selenium | 4.0 U | 4.0 R | 4.4 U | 4.4 | 4.4 | 4.4 UJ | 4.4 R | 8.5 | 5 |
| Silver | 2.4 B | 0.6 B | 0.4 U | 0.4 | 0.4 | 0.4 | 0.9 | 10 | 10 |
| Sodium | — | — | — | — | 11,100 | 12,200 | 14,800 | | 5,000 |
| Thallium | 3.6 U | 6.5 J | 2.6 UJ | 2.6 | 2.6 | 2.6 | 6.3 | 40 | 10 |
| Vanadium | — | — | — | — | 2.2 | 0.8 | 1.1 | | 50 |
| Zinc | 14.9 B | 3.2 B | 2.2 B | 19.0 J | 91.6 J | 0.6 UJ | 0.7 | 86 | 20 |
| **Inorganics - Metals and Cyanide (Total)** | | | | | | | | | |
| Aluminum | — | — | — | — | 177 | 1,800 | 199 | | |
| Antimony | 6.5 B | 4.0 B | 4.1 B | 3.7 | 3.7 | 5.2 | 3.9 | | |
| Arsenic | 3.6 U | 3.6 U | 2.9 U | 2.9 | 2.9 | 2.9 | 5.4 | | |
| Barium | 24.3 B | 41.8 B | 37.7 B | 29.0 | 37.0 | 40.0 | 33.1 | | |
| Beryllium | 0.1 U | 0.1 U | 0.1 U | 0.1 | 0.1 | 0.2 | 0.2 | | |
| Cadmium | 0.2 U | 0.2 U | 0.2 U | 0.2 | 0.2 | 0.2 | 0.3 | | |
| Calcium | — | — | — | — | 12,100 | 131,000 | 108,000 | | |
| Chromium | 5.0 B | 6.4 B | 4.2 B | 0.8 | 1.0 | 1.4 | 1.5 | | |
| Cobalt | — | — | — | — | 0.4 | 1.5 | 0.6 | | |
| Copper | 4.4 B | 8.8 B | 6.0 B | 8.6 | 14.8 | 11.0 J | 1.2 | | |
| Cyanide | 4.0 U | 4.0 U | 3.0 U | 3.0 | 3.0 | 0.8 | 0.8 | 10 | 10 |
| Iron | 3,380 | 1,620 | 3,290 | 3,360 | 155 | 2,200 | 258 | | |
| Lead | 1.3 U | 1.4 B | 1.5 UJ | 1.5 | 1.5 | 1.5 | 2.4 | | |
| Magnesium | — | — | — | — | 26,600 | 31,600 | 28,700 | | |
| Manganese | — | — | — | — | 16.5 | 87.5 | 87.9 | | |
| Mercury | 0.1 U | 0.1 U | 0.1 U | 0.1 | 0.1 UJ | 0.1 | 0.1 | | |
| Nickel | 5.1 B | 2.5 B | 3.4 B | 4.2 | 0.7 | 2.5 | 1.2 | | |
| Potassium | — | — | — | — | 3,560 | 4,170 | 4,100 | | |
| Selenium | 4.0 U | 4.0 UJ | 4.4 U | 4.4 UJ | 4.4 | 4.4 R | 4.4 UJ | | |
| Silver | 2.6 B | 0.5 U | 0.4 U | 0.4 | 0.4 | 0.4 | 0.9 | | |
| Sodium | — | — | — | — | 10,300 | 12,600 | 14,100 | | |
| Thallium | 3.6 UJ | 3.6 U | 2.6 UJ | 2.6 UJ | 2.6 | 2.6 | 6.3 | | |
| Vanadium | — | — | — | — | 0.8 | 2.2 | 1.1 | | |
| Zinc | 35.4 | 59.0 | 32.3 | 42.9 J | 32.6 J | 14.6 J | 1.3 | | |
| **Volatile Organic Compounds (VOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| **Semi-Volatile Organic Compounds (SVOCs)** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |
| **Pesticides / PCBs** | BRL | BRL | BRL | BRL | BRL | BRL | BRL | | |

Notes:

1) All results expressed in micrograms per liter (μg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Constituent not analyzed.
7) U = Not detected at the listed reporting limit.
8) B = An estimated value above the method detection limit (MDL) or the instrument detection limit (IDL) but below the CRQL.
9) UJ = A value less than the CRQL but greater than the MDL.
10) J = The analyte was positively identified; the associated numerical value is the approximate concentration of analyte in the sample.
11) R = The sample results are rejected due to deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte can not be verified.
12) CRQL = Contract Required Quantitation Limit
13) Samples analyzed for Dissolved Inorganics were field filtered using a .45 micron, gravity flow filter.
14) Detailed summary tables which list report limits and qualified data values for each compound analyzed for by the laboratory as well as qualified laboratory reports are available upon request.

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# APPENDIX C

# LABORATORY DATA VALIDATION REPORT

APPENDIX C

# DATA VALIDATION REPORT

# FOR

# SKINNER LANDFILL SITE

**EARTH TECH: PROJECT NUMBER 54280**

**LABORATORY REPORT NUMBER 204052617**

**PROJECT MANAGER: Ron Rolker**

**Date: August 16, 2004**

**Data Validator: Mark Kromis**

# APPENDIX C
# LIST OF ACRONYMS

| | |
|---|---|
| BFB | Bromofluorobenzene |
| CC | Continuing Calibration |
| CCV | Continuing Calibration Verification |
| CCB | Continuing Calibration Blanks |
| CLP | Contract Laboratory Program |
| CRDL | Contract Required Detection Limit |
| DFTPP | Decafluorotriphenylphosphine |
| GC/MS | Gas Chromatograph/Mass Spectrometer |
| IC | Initial Calibration |
| ICB | Initial Calibration Blank |
| IDL | Instrument Detection Limit |
| ICP | Inductively Coupled Plasma |
| ICS | Interference Check Sample |
| ICV | Initial Calibration Verification |
| ILM | Inorganic Analysis Multi-Media Multi-Concentration |
| INDAM | Individual A Mixture |
| INDBM | Individual B Mixture |
| mg/L | milligrams per liter |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| OLC | Organic Analysis Low Concentration |
| OLM | Organic Analysis Multi-Media Multi-Concentration |
| %D | Percent Difference |
| % RSD | Percent Relative Standard Deviation |
| PB | Preparation Blanks |
| QC | Quality Control |
| RF | Response Factor |
| RPD | Relative Percent Difference |
| RRF | Relative Response Factor |
| SDG | Sample Delivery Group |
| SOW | Statement of Work |
| µg/L | micrograms per liter |
| US EPA | United States Environmental Protection Agency |
| VOC | Volatile Organic Compounds |
| VTSR | Validated Time of Sample Receipt |

# DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204052617 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in May 2004, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Group (SDG) 204052617.

| GCAL # | Sample Description |
|---|---|
| 20405261701 | SKGW591010 |
| 20405261702 | SKGW601010 |
| 20405261703 | SKGW62A1010 |
| 20405261704 | SKGW641010 |
| 20405261705 | SKGWEB1010 |
| 20405261706 | SKGW591010 (DISS) |
| 20405261707 | SKGW601010 (DISS) |
| 20405261708 | SKGW62A1010 (DISS) |
| 20405261709 | SKGW641010 (DISS) |
| 20405261710 | SKGWEB1010 (DISS) |
| 20405261715 | SKSWD031010 |
| 20405261716 | SKSWD03MS1010 |
| 20405261718 | SKSWD03DUP1010 |
| 20405261719 | SKSWD03FD1010 |
| 20405261720 | SKSWDEB1010 |
| 20405261722 | SKSWD031010 (DISS) |
| 20405261723 | SKSWD03MS1010 (DISS) |
| 20405261724 | SKSWD031DUP1010 (DISS) |
| 20405261725 | SKSWD03FD1010 (DISS) |
| 20405261726 | SKSWDEB1010 (DISS) |

## INTRODUCTION

Analyses of metals were performed according to Contract Laboratory Program (CLP)-Inorganic Analysis Multi-media Multi-concentration ILM04.1 Statement of Work (SOW). Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.
The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user.

Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times

2. Calibration

   A. Initial Calibration (IC)

   B. Continuing Calibration (CC)

3. Blanks

4. Inductively Coupled Plasma (ICP) Interference Check Sample

5. Laboratory Control Sample (LCS)

6. Duplicate Analysis

7. Spike Sample Analysis

8. ICP Serial Dilution

9. System Performance

10. Documentation

11. Overall Assessment

## 1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples undergoing CLP protocol. Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. CALIBRATION

### A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

### B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

## 3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Preparation Blanks (PB) were analyzed at the appropriate frequencies. No constituents were detected in the ICB, CCB, and PB blanks above the corresponding Contract Required Detection Limit (CRDL).

## 4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

## 5. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

## 6. DUPLICATE ANALYSIS

The laboratory used samples SKSWD03101 and SKSWD03101 (dissolved) for the duplicate sample. The Relative Percent Difference (RPD) between the sample and duplicate results for the total and dissolved fractions were within the acceptance criteria (<20%) for all target compounds.

## 7. SPIKE SAMPLE ANALYSIS

The laboratory used samples SKSWD03101 and SKSWD03101 (dissolved) for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) with the exception of Arsenic (126%) and Selenium (73%) in the total fraction and Selenium (0%) in the dissolved fraction. As per the National Functional Guidelines: if the percent recovery is greater than 125% then qualify detected results whit "J". If the percent recovery is greater than 30% and less than 74% qualify detected results for that analyte with "J" and non-detected results with "UJ". If the percent recovery is less than 30% qualify detected results for that analyte with "J" and non-detected results with "R".

## 8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 50 times above the IDL, its serial dilution analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interference's exist due to matrix effects. The serial dilution percent differences were within the acceptance criteria for all target analytes

## 9. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

## 10. DOCUMENTATION

The documentation appeared accurate and in order.

## 11. OVERALL ASSESSMENT

The percent recoveries for Lead in the Contract Required Detection Limit (CRDL) standards were 128.1%, 75.2%, and 111.2%. The percent recoveries for Thallium in the Contract Required Detection Limit (CRDL) standards were 89.9%, 92.9%, and 65.6%. The detected Lead results greater than the IDL but less than two times the CRDL were qualified with as estimated with "J". The detected Thallium results greater than the IDL but less than two times the CRDL were qualified with as estimated with "J" and the non-detected results were qualified with "UJ". The results are acceptable with the validator-added qualifiers.

## DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204052617 SEMIVOLATILE ORGANICS

Validation of the Gas Chromatograph/Mass Spectrometer (GC/MS) semi-volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in May 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. The results were reported by GCAL under SDG 204052617.

| GCAL # | Sample Description |
|---|---|
| 20405261701 | SKGW591010 |
| 20405261702 | SKGW601010 |
| 20405261703 | SKGW62A1010 |
| 20405261704 | SKGW641010 |
| 20405261705 | SKGWEB1010 |
| 20405261715 | SKSWD031010 |
| 20405261716 | SKSWD03MS1010 |
| 20405261717 | SKSWD03MSD1010 |
| 20405261719 | SKSWD03FD1010 |
| 20405261720 | SKSWDEB1010 |

## INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various data qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the semivolatile data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Internal Standards Performance
8. Compound Identification
9. Constituent Quantitation and Reported Detection Limits
10. System Performance
11. Documentation
12. Overall Assessment

## 1. HOLDING TIMES

All samples were initially extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. GC/MS TUNING

The samples were analyzed on a single GC/MS system, identified as MSSV3. One decafluorotriphenylphosphine (DFTPP) tune was run representing the shift in which the standards and samples were analyzed. The DFTPP tune is acceptable.

## 3. CALIBRATION

### A. Initial Calibration

One IC dated 6/15/04 was analyzed in support of the semivolatile sample analyses. Documentation of the IC was present in the data package, and the Relative Response Factor (RRF), as well as percent % RSD values were accurately reported for all target compounds. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all semi-volatile compounds. The RRF's and the average RRF were within the acceptance criteria specified in the method for all reported analytes with the exception of 4-Chloroaniline. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Diethylphthalate (34.5%). The lowest point of the calibration curve was dropped for Diethylphthalate and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Diethylphthalate were not detected in the associated samples therefore data qualification was not required. The detected results for Di-n-butylphthalate were mitigated do to the presence of Di-n-butylphthalate in the associated method blank.

As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

### B. Continuing Calibration

One CC dated 6/15/04 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC dated 6/15/04 were within the acceptance criteria with the exception of 4-Chloroaniline. The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 6/15/04 were within the acceptance criteria with the exception the %D for 2,4-Dintorphenol. As per the National Functional Guidelines, if the %D exceeds the acceptance criteria qualify detected results for that analyte with "J" and non-detected results for that analyte with "UJ". The 4-Chloroaniline results were previously qualified under Section 3A titled "Initial calibration".

## 4. BLANKS

Two laboratory semivolatile methods blank and two equipment blanks were analyzed with this SDG. The results are summarized below.

Method Blank (MB169344)

Bis-(2-ethylhexyl) phthalate (2.56 ppb) and Di-n-butylphthalate (0.889) were detected in method blank extracted on 5/27/04.

Method Blank (MB170484)

Bis-(2-ethylhexyl) phthalate and Di-n-butylphthalate was detected at a concentration of 0.794 ppb and 0.839 ppb respectively in method blank extracted on 6/1/04.

Equipment Blank (SKGWEB1010)

Di-n-butylphthalate was detected at a concentration of 0.669 ppb in the equipment blank collected on 5/25/04. The Di-n-butylphthalate result was mitigated by the presence of Di-n-butylphthalate in the associated extraction blank.

Equipment Blank (SKSWDEB1010)

Bis-(2-ethylhexyl) phthalate (0.697 ppb) and Di-n-butylphthalate (3.55 ppb) were detected in the equipment blank collected on 5/27/04. The Bis-(2-ethylhexyl) phthalate and Di-n-butylphthalate result was mitigated by the presence of Di-n-butylphthalate in the associated extraction blank.

## 5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds were recovered within acceptable control limits.

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

Sample SKSWD031010 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of the 4-Nitorphenol and Pentachlorophenol. The %RPD between the MS/MSD are within the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD data alone.

## 7. INTERNAL STANDARDS PERFORMANCE

Internal standard areas and retention times were within acceptable limits for the reported semivolatile sample analyses.

## 8. COMPOUND IDENTIFICATION

All reported semivolatile constituents were correctly identified with supporting chromatograms present in the data package.

## 9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for semivolatile constituents.

## 10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data submitted for review.

## 11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the preparation method off of the CLP Form 1's and the Date Extracted off of the CLP Form 1's and IV's. The data validator manually wrote the preparation method and Date Extracted on the appropriate forms. GCAL also left the "B" qualifier off of the CLP Form 1's for the compound Di-n-butylphthalate therefore the data validator inserted a "B" qualifier in the "Q" column of the CLP Form 1's. The "B" qualifier indicates that the analyte was detected in the associated method blank.

## 12. OVERALL ASSESSMENT

Bis-(2-ethylhexyl) phthalate was detected in the field duplicate collected for sample SKSWD031010 at a concentration of 438 ppb. Bis-(2-ethylhexyl) phthalate was not detected in the original sample. Trace amounts of Bis-(2-ethylhexyl) phthalate (1.10/1.06 ppb) were detected in the aliquots of sample SKSWD031010 that were collected for MS/MSD analysis. The concentration of Bis-(2-ethylhexyl) phthalate in the MS/MSD were slightly greater than the amount detected in the associated method blank (0.794 ppb). The seems to be an anomaly associated with the Bis-(2-ethylhexyl) phthalate detected in the field duplicate collected for SKSWD031010 therefore the data validator suggest that the client use historical knowledge of the site when addressing this analyte. The results are acceptable with the validator-added qualifiers.

## DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204052617 VOLATILE ORGANIC

Validation of the GC/MS volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in May 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204052617.

| GCAL # | Sample Description |
|---|---|
| 20405261701 | SKGW591010 |
| 20405261702 | SKGW601010 |
| 20405261703 | SKGW62A1010 |
| 20405261704 | SKGW641010 |
| 20405261705 | SKGWEB1010 |
| 20405261711 | SKGW62B1010 |
| 20405261712 | SKGW651010 |
| 20405261713 | SKGWTB1010 |
| 20405261714 | SKGWFB1010 |
| 20405261715 | SKSWD031010 |
| 20405261716 | SKSWD03MS1010 |
| 20405261717 | SKSWD03MSD1010 |
| 20405261719 | SKSWD03FD1010 |
| 20405261720 | SKSWDEB1010 |
| 20405261721 | SKSWDTB1010 |

## INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Low Concentration OLC02.0 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit.

However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The volatiles data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Laboratory Control Sample
8. Internal Standards Performance
9. Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. System Performance
12. Documentation
13. Overall Assessment

## 1. HOLDING TIMES

All samples for Volatile Organic Compounds (VOC) analyses were analyzed within the 14-day technical holding time and the 10-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. GC/MS TUNING

The samples were analyzed on one GC/MS system, identified as MSV1. One bromofluorobenzene (BFB) tune was run. The BFB tune is acceptable.

## 3. CALIBRATION

### A. Initial Calibration

One IC dated 5/30/04 was analyzed on instrument MSV1 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards is present in the data package, and RRF's as well as %RSD values were accurately reported. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all volatile compounds. The %RSD's were within the acceptance criteria specified in the method for all target analytes. The RRF's and the average RRF for the IC dated 5/30/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone.

As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

### B. Continuing Calibration

One CC dated 5/30/04 was analyzed on instrument MSV1 in support of the volatile sample analyses reported in the data submissions. The percent difference (%D) between the average RRF's and the CC RF's were within the acceptance criteria for all target analytes. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone. The Acetone results were previously qualified under section 3A above.

## 4. BLANKS

One laboratory volatile method blank, storage blank, two Equipment Blank, two Trip Blanks, and a Field Blank were analyzed with this SDG. The results are summarized below.

MB170027

Methylene chloride, 1,2-Dichlrorbenzene, 1,4-Dichlrorbenzene, and 1,2,4-Trichlorobenzene were detected at a concentration of 0.20 ppb, 0.36, 0.43, and 0.40 ppb respectively in the method blank analyzed on 5/30/04.

Storage Blank (VHBLK01)

Methylene chloride and 1,2-Dichlrorbenzene were detected at a concentration of 0.13 ppb and 0.30 ppb respectively in the storage blank analyzed on 5/26/04.

Trip Blank (SKGWTB1010)

1,2-Dichlrorbenzene was detected at a concentration of 0.27 ppb in the Trip Blank associated with the samples collected on 5/25/04. Sulfur dioxide was detected as a TIC at a concentration of 326 ppb. The 1,2-Dichlorobenzene detected in Trip Blank SKGWTB1010 was mitigated by the presence of 1,2-Dichlorobenzene detected in the associated method blank and storage blank

Trip Blank (SKSWDTB1010)

Methylene chloride and 1,2-Dichlrorbenzene were detected at a concentration of 0.37 ppb and 0.16 ppb respectively in the Trip Blank associated with the samples collected on 5/27/04. Sulfur dioxide was detected as a TIC at a concentration of 336 ppb.

Equipment Blank (SKGWEB1010)

Methylene chloride, Toluene, and Xylenes (total) were detected at concentrations of 0.37 ppb, 0.40 ppb and 0.19 ppb respectively in the equipment blank collected on 5/25/04. Sulfur dioxide was detected as a TIC at a concentration of 411 ppb.

Equipment Blank (SKSWDEB1010)

Methylene chloride, Toluene, and Xylenes (total) were detected at concentrations of 0.36 ppb, 0.41 ppb and 0.22 ppb respectively in the equipment blank collected on 5/27/04. Sulfur dioxide was detected as a TIC at a concentration of 155 ppb.

Field Blank (SKSWFB1010)

Methylene chloride and Toluene were detected at concentrations of 0.35 ppb and, 0.43 ppb respectively in the equipment blank collected on 5/25/04. Sulfur dioxide was detected as a TIC at a concentration of 285 ppb.

## 5. SYSTEM MONITORING COMPOUND RECOVERY

All reported volatile system monitoring compounds were recovered within acceptable control limits for all samples.

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSWD031010 was submitted for MS/MSD analysis. The MS/MSD percent recoveries and %RPD between the MS/MSD were within the acceptance criteria.

## 7. LABORATORY CONTROL SAMPLE

A LCS was analyzed in conjunction with this SDG. Recoveries were within the control limit for all constituents.

## 8. INTERNAL STANDARDS PERFORMANCE

Internal Standard (IS) areas and retention times were within acceptable limits for the reported volatile sample analyses.

## 9. COMPOUND IDENTIFICATION

All reported VOCs were correctly identified with supporting chromatograms present in the data package.

## 10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for VOCs.

## 11. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

## 12. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following. GCAL inadvertently forget to insert a "B" qualifier for Methylene chloride on the form 1's. The data validator amended the laboratory report to reflect the "B" qualifier in the "Q" field on the Form 1's.

## 13. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

## DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 204052617
## PESTICIDES

Validation of the Gas Chromatography (GC) pesticides data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in May 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204052617.

| GCAL # | Sample Description |
|---|---|
| 20405261701 | SKGW591010 |
| 20405261702 | SKGW601010 |
| 20405261703 | SKGW62A1010 |
| 20405261704 | SKGW641010 |
| 20405261705 | SKGWEB1010 |
| 20405261715 | SKSWD031010 |
| 20405261716 | SKSWD03MS1010 |
| 20405261717 | SKSWD03MSD1010 |
| 20405261719 | SKSWD03FD1010 |
| 20405261720 | SKSWDEB1010 |

## INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the pesticide data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Gas Chromatograph/Electronic Capture Detector (GC/ECD) Instrument Performance Check
3. IC
4. Calibration Verification
5. Blanks
6. Surrogate Spikes
7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)
8. Pesticide Cleanup Checks
9. Target Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. Documentation
12. Overall Assessment

## 1. HOLDING TIMES

All samples were extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. GC/ECD INSTRUMENT PERFORMANCE CHECK

The Performance Evaluation Mixture (PEM) was analyzed at the correct frequency. Absolute retention times were within limits.

The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check.

The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM). The percent breakdown for both 4,4-DDT and Endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4-DDT and Endrin in each PEM was less than 30.0% for both GC columns.

## 3. INITIAL CALIBRATION

Individual standard mixtures A and B were analyzed at the correct frequencies and concentrations. The percent resolution criterion was met for Individual standard mixtures A and B.

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20% with the exception of alpha-BHC (23.4%), delta-BHC (27.0), and 4,4'-DDE (20.7%) on column DB-1701. As per the National Functional Guidelines, if the %RSD criteria are not met for the compound(s) being quantified, qualify all associated positive quantitative results with "J" and the sample quantitation limits for non-detected target compounds with "UJ".

The multi-component target compounds were analyzed separately on both columns at a single concentration level. Retention times were determined from a minimum of three peaks.

## 4. CALIBRATION VERIFICATION

Absolute retention times were within appropriate time retention windows

## 5. BLANKS

One laboratory method blank and on Equipment blank was analyzed with this SDG. The results are summarized below.

<u>Method Blank 169623</u>

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 5/28/04.

Equipment Blank SKSWD031010

No constituents were detected above the laboratory-reporting limit in the equipment blank collected on 5/27/04.

## 6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria for all samples.

## 7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSWD031010 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of Endrin. The %RPD between the MS/MSD are within the acceptance criteria. As per the National Functional Guidelines, there is no action taken on MS/MSD data alone.

## 8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup.

## 9. TARGET COMPOUND IDENTIFICATION

All reported pesticide data were correctly identified with supporting chromatograms present in the data package.

## 10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for pesticide constituents.

## 11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the preparation method off of the CLP Form 1's and the Date Extracted off of the CLP Form 1's and IV's. The data validator manually wrote the preparation method and Date Extracted on the appropriate forms.

## 12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

## REFERENCES

US EPA, 1994. *National Functional Guidelines for Inorganic Data Review.*

US EPA, 1999. *National Functional Guidelines for Organic Data Review.*

NELAP CERTIFICATE NUMBER 01955

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC

# ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

**Report Date** 06/29/2004

**GCAL Report** 204052617

| | |
|---|---|
| ***Deliver To*** | Earth Tech<br>200 Vine Street<br>Wilder, KY 41076<br>859-442-2300 |
| ***Attn*** | Pat Higgins |

***Customer*** Earth Tech

***Project*** Skinner Landfill

000001

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402 • Phone 225.769.4900 • Fax 225.767.5717

# CASE NARRATIVE

**Client:** Earth Tech **Report:** 204052617

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

## SEMI-VOLATILES MASS SPECTROMETRY

In the semi-volatile analysis, sample 20405261719 (SKSWD03FG1010) had a hit for bis(2-ethylhexyl)phthalate. The sample was re-extracted outside of holding time to confirm. This is attributed to laboratory contamination.

In the prep batch 275024, the MS/MSD exhibited sporadic recovery failures. These recoveries were within limits in the LCS. This is attributed to matrix interference.

## METALS

In the ILM04.1 - CLP Metals analysis for prep batch 274822, the MS recovery was outside the control limits for Arsenic and Selenium. The LCS recoveries were within control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

In the ILM04.1 - CLP Metals analysis for prep batch 274823, the MS recovery was outside the control limits for Selenium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

The Sample/Duplicate RPD for Cyanide, Total for prep batch 274775 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

The Sample/Duplicate RPD for Nickel and Zinc for prep batch 274822 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

The Sample/Duplicate RPD for Cadmium for prep batch 274823 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

# Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

**Common Abbreviations Utilized in this Report**

| | |
|---|---|
| **ND** | Indicates the result was Not Detected at the specified RDL |
| **DO** | Indicates the result was Diluted Out |
| **MI** | Indicates the result was subject to Matrix Interference |
| **TNTC** | Indicates the result was Too Numerous To Count |
| **SUBC** | Indicates the analysis was Sub-Contracted |
| **FLD** | Indicates the analysis was performed in the Field |
| **PQL** | Practical Quantitation Limit |
| **MDL** | Method Detection Limit |
| **RDL** | Reporting Detection Limit |
| **00:00** | Reported as a time equivalent to 12:00 AM |

**Reporting Flags Utilized in this Report**

| | |
|---|---|
| **J** | Indicates an estimated value |
| **U** | Indicates the compound was analyzed for but not detected |
| **B** | (ORGANICS) Indicates the analyte was detected in the associated Method Blank |
| **B** | (INORGANICS) Indicates the results between the RDL and MDL |

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reporduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Curtis Ekker

CURTIS EKKER
DATA VALIDATION MANAGER
**GCAL REPORT** 204052617

THIS REPORT CONTAINS 608 PAGES.

# Report Sample Summary

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 20405261701 | SKGW591010 | Water | 05/25/2004 09:35 | 05/26/2004 09:30 |
| 20405261702 | SKGW601010 | Water | 05/25/2004 10:10 | 05/26/2004 09:30 |
| 20405261703 | SKGW62A1010 | Water | 05/25/2004 10:45 | 05/26/2004 09:30 |
| 20405261704 | SKGW641010 | Water | 05/25/2004 11:25 | 05/26/2004 09:30 |
| 20405261705 | SKGWEB1010 | Water | 05/25/2004 14:40 | 05/26/2004 09:30 |
| 20405261706 | SKGW591010 (DISS) | Water | 05/25/2004 09:35 | 05/26/2004 09:30 |
| 20405261707 | SKGW601010 (DISS) | Water | 05/25/2004 10:10 | 05/26/2004 09:30 |
| 20405261708 | SKGW62A1010 (DISS) | Water | 05/25/2004 10:45 | 05/26/2004 09:30 |
| 20405261709 | SKGW641010 (DISS) | Water | 05/25/2004 11:25 | 05/26/2004 09:30 |
| 20405261710 | SKGWEB1010 (DISS) | Water | 05/25/2004 14:40 | 05/26/2004 09:30 |
| 20405261711 | SKGW62B1010 | Water | 05/25/2004 11:15 | 05/26/2004 09:30 |
| 20405261712 | SKGW651010 | Water | 05/25/2004 11:50 | 05/26/2004 09:30 |
| 20405261713 | SKGWTB1010 | Water | 05/25/2004 00:00 | 05/26/2004 09:30 |
| 20405261714 | SKGWFB1010 | Water | 05/25/2004 15:50 | 05/26/2004 09:30 |
| 20405261715 | SKSWD031010 | Water | 05/27/2004 13:10 | 05/28/2004 10:10 |
| 20405261716 | SKSWD03MS1010 | Water | 05/27/2004 14:00 | 05/28/2004 10:10 |
| 20405261717 | SKSWD03MSD1010 | Water | 05/27/2004 14:15 | 05/28/2004 10:10 |
| 20405261718 | SKSWD03DUP1010 | Water | 05/27/2004 14:15 | 05/28/2004 10:10 |
| 20405261719 | SKSWD03FD1010 | Water | 05/27/2004 13:30 | 05/28/2004 10:10 |
| 20405261720 | SKSWDEB1010 | Water | 05/27/2004 14:55 | 05/28/2004 10:10 |
| 20405261721 | SKSWDTB1010 | Water | 05/27/2004 00:00 | 05/28/2004 10:10 |
| 20405261722 | SKSWD031010 (DISS) | Water | 05/27/2004 13:10 | 05/28/2004 10:10 |
| 20405261723 | SKSWD03MS1010 (DISS) | Water | 05/27/2004 14:00 | 05/28/2004 10:10 |
| 20405261724 | SKSWD03DUP1010 (DISS) | Water | 05/27/2004 14:00 | 05/28/2004 10:10 |
| 20405261725 | SKSWD03FD1010 (DISS) | Water | 05/27/2004 13:30 | 05/28/2004 10:10 |
| 20405261726 | SKSWDEB1010 (DISS) | Water | 05/27/2004 14:55 | 05/28/2004 10:10 |

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW591010

Lab Name: GCAL Contract

Lab Code: LA024 Case No SAS No SDG No.: 204052617

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20405261701

Level: (low/med)

Lab File ID: 2040530/T0255

% Moisture: not dec.

Date Collected: 05/25/04 Time: 0935

GC Column: DB-624-30M ID 53 (mm

Date Received: 05/26/04

Instrument ID: MSV1

Date Analyzed: 05/30/04 Time: 1542

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL

Prep Batch Analytical Batch: 274833

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | 0.15 | J | 0.010 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 |

FORM VOA

6/23/04 MSK

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO

SKGW591010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20405261701

Level: (low/med)

Lab File ID: 2040530/T0255

% Moisture: not dec.

Date Collected: 05/25/04 Time: 0935

GC Column: DB-624-30M ID: .53 (mm

Date Received: 05/26/04

Instrument ID: MSV1

Date Analyzed: 05/30/04 Time: 1542

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 274833

*CONCENTRATION UNITS: ug/L*

Analytical Method: OLCO 2.1

| *CAS NO.* | *COMPOUND* | *RESULT* | *Q* | *MDL* | *RL* |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SKGW591010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No. SDG No.: 204052617

Matrix: Water Lab Sample ID: 20405261701

Sample wt/vol: Units Lab File ID: 2040530/T0255

Level: (low/med) Date Collected: 05/25/04 Time: 0935

% Moisture: not dec. Date Received: 05/26/04

GC Column: DB-624-30M ID: 53 (mm Date Analyzed: 05/30/04 Time: 1542

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: ( µL

Soil Aliquot Volume: ( µL

*Number TICs Found:* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1 | 7446-09-5 | Sulfur dioxide | 2.417 | 39.4 | |

11

8/23/04
MSL

FORM 1 VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW601010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20405261702

Level: (low/med)

Lab File ID: 2040530/T0256

% Moisture: not dec.

Date Collected: 05/25/04 Time: 1010

GC Column: DB-624-30M ID: .53 (mm

Date Received: 05/26/04

Instrument ID: MSV1

Date Analyzed: 05/30/04 Time: 1606

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 274833

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 |

R

FORM I VOA

8/31/04

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO

SKGW601010

Lab Name: GCAL Contract

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20405261702

Level: (low/med) Lab File ID: 2040530/T0256

% Moisture: not dec. Date Collected: 05/25/04 Time: 1010

GC Column: DB-624-30M ID: 53 (mm) Date Received: 05/26/04

Instrument ID: MSV1 Date Analyzed: 05/30/04 Time: 1606

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 274833

CONCENTRATION UNITS ug/L Analytical Method: OLCO 2.1

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW601010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: Water Lab Sample ID: 20405261702

Sample wt/vol: Units: Lab File ID: 2040530/T0256

Level: (low/med) Date Collected: 05/25/04 Time: 1010

% Moisture: not dec. Date Received: 05/26/04

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 05/30/04 Time: 1606

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: ( µL

Soil Aliquot Volume: ( µL

*Number TICs Found:* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | | |
|---|---|---|---|---|---|---|
| 1. | 7446-09-5 | Sulfur dioxide | 2.44 | 17.8 | | U |

8/23/04

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW62A1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No: SAS No: SDG No.: 204052617

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID 20405261703

Level: (low/med) Lab File ID 2040530/T0250

% Moisture: not dec. Date Collected: 05/25/04 Time: 1045

GC Column: DB-624-30M ID 53 (mm) Date Received: 05/26/04

Instrument ID: MSV1 Date Analyzed 05/30/04 Time: 1741

Soil Extract Volume: (µL) Dilution Factor 1 Analyst: RJO

Soil Aliquot Volume: (µL) Prep Batch Analytical Batch: 274833

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 |

R

FORM 1 VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW62A1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20405261703

Level: (low/med)

Lab File ID: 2040530/T0260

% Moisture: not dec.

Date Collected: 05/25/04 Time: 1045

GC Column: DB-624-30M ID: .53 (mm

Date Received: 05/26/04

Instrument ID: MSV1

Date Analyzed: 05/30/04 Time: 1741

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 274833

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| *CAS NO.* | *COMPOUND* | *RESULT* | *Q* | *MDL* | *RL* |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW62A1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No. SDG No.: 204052617

Matrix: Water Lab Sample ID: 20405261703

Sample wt/vol: Units Lab File ID: 2040530/T0260

Level (low/med) Date Collected: 05/25/04 Time: 1045

% Moisture: not dec. Date Received: 05/26/04

GC Column: DB-624-30M ID: 53 (mm Date Analyzed: 05/30/04 Time: 1741

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

*Number TICs Found:* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | | |
|---|---|---|---|---|---|---|
| 1 | 7446-09-5 | Sulfur dioxide | 2.435 | 12.6 | | U |

8/23/04 MW

FORM VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW641010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20405261704

Level: (low/med)

Lab File ID: 2040530/T0261

% Moisture: not dec.

Date Collected: 05/25/04 Time: 1125

GC Column: DB-624-30M ID: .53 (mm

Date Received: 05/26/04

Instrument ID: MSV1

Date Analyzed: 05/30/04 Time: 1805

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 274833

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 |

R

8/23/4 M

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW641010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20405261704

Level: (low/med)

Lab File ID: 2040530/T0261

% Moisture: not dec.

Date Collected: 05/25/04 Time: 1125

GC Column: DB-624-30M ID: 53 (mm)

Date Received: 05/26/04

Instrument ID: MSV1

Date Analyzed: 05/30/04 Time: 1805

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 274833

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: µg/L

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW641010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: Water Lab Sample ID: 20405261704

Sample wt/vol: Units: Lab File ID: 2040530/T0261

Level: (low/med) Date Collected: 05/25/04 Time: 1125

% Moisture: not dec. Date Received: 05/26/04

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 05/30/04 Time: 1805

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: ( µL

Soil Aliquot Volume: ( µL

*Number TICs Found:* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1. | 593-70-4 | Methane, chlorofluoro- | 2.622 | 6.36 | |

8/23/04 MR

1A

VOLATILE ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SKGWEB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix (soil/water): Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20405261705

Level: (low/med)

Lab File ID: 2040530/T0262

% Moisture, not dec.

Date Collected: 05/25/04 Time: 1440

GC Column: DB-624-30M ID: 53 (mm)

Date Received: 05/26/04

Instrument ID: MSV1

Date Analyzed: 05/30/04 Time: 1829

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 274833

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 |
| 75-09-2 | Methylene chloride | 2.0 ~~2.2~~ | J B | 0.010 | 2.0 |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 |

R

U

5/31/04

FORM 1 VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGWEB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20405261705

Level: (low/med)

Lab File ID: 2040530/T0262

% Moisture: not dec.

Date Collected: 05/25/04 Time: 1440

GC Column: DB-624-30M ID: .53 (mm

Date Received: 05/26/04

Instrument ID: MSV1

Date Analyzed: 05/30/04 Time: 1829

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 274833

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 0.40 | J | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 0.19 | J | 0.010 | 1.0 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SKGWEB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No. SDG No.: 204052617

Matrix: Water Lab Sample ID: 20405261705

Sample wt/vol: Units Lab File ID: 2040530/T0262

Level: (low/med) Date Collected: 05/25/04 Time: 1440

% Moisture: not dec. Date Received: 05/26/04

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 05/30/04 Time: 1829

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: ( µL

Soil Aliquot Volume: ( µL

*Number TICs Found:* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1 | 7446-09-5 | Sulfur dioxide | 2.409 | 411 | |

UJ

8/23/04

FORM VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW62B1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20405261711

Level: (low/med)

Lab File ID: 2040530/T0263

% Moisture: not dec.

Date Collected: 05/25/04 Time: 1115

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 05/26/04

Instrument ID: MSV1

Date Analyzed: 05/30/04 Time: 1853

Soil Extract Volume: ( µL )

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL )

Prep Batch: Analytical Batch: 274833

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | 1.9 | | 0.010 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 540-59-0 | 1,2-Dichloroethene | 1.7 | | 0.010 | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 |
| 71-43-2 | Benzene | 6.0 | | 0.010 | 1.0 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 |
| 108-90-7 | Chlorobenzene | 0.29 | J | 0.010 | 1.0 |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 |



7/13/04 MSL

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW62B1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20405261711

Level: (low/med)

Lab File ID: 2040530/T0263

% Moisture: not dec.

Date Collected: 05/25/04 Time: 1115

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 05/26/04

Instrument ID: MSV1

Date Analyzed: 05/30/04 Time: 1853

Soil Extract Volume: ( µL )

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL )

Prep Batch: Analytical Batch: 274833

*CONCENTRATION UNITS: ug/L*

Analytical Method: OLCO 2.1

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 0.11 | J | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 0.40 | J | 0.010 | 1.0 |

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW62B1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: Water Lab Sample ID: 20405261711

Sample wt/vol: Units Lab File ID: 2040530/T0263

Level: (low/med) Date Collected: 05/25/04 Time: 1115

% Moisture: not dec. Date Received: 05/26/04

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 05/30/04 Time: 1853

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

*Number TICs Found:* 2

*CONCENTRATION UNITS*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1 | 7446-09-5 | Sulfur dioxide | 2.433 | 23.6 | |
| 2 | 95-49-8 | Benzene, 1-chloro-2-methyl- | 9.326 | 3.7 | |

LI

8/23/05

FORM VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW651010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20405261712

Level: (low/med)

Lab File ID: 2040530/T0264

% Moisture: not dec.

Date Collected: 05/25/04 Time: 1150

GC Column: DB-624-30M ID: .53 (mm

Date Received: 05/26/04

Instrument ID: MSV1

Date Analyzed: 05/30/04 Time: 1917

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 274833

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 |
| 75-27-4 | Bromodichloromethane | 1.0. | U | 0.010 | 1.0 |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 |

R

FORM I VOA

9/13/04

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW651010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20405261712

Level (low/med) Lab File ID: 2040530/T0264

% Moisture: not dec. Date Collected: 05/25/04 Time: 1150

GC Column: DB-624-30M ID: .53 (mm) Date Received: 05/26/04

Instrument ID: MSV1 Date Analyzed: 05/30/04 Time: 1917

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 274833

CONCENTRATION UNITS: µg/L Analytical Method: OLCO 2.1

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW651010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: Water Lab Sample ID: 20405261712

Sample wt/vol: Units: Lab File ID: 2040530/T0264

Level: (low/med) Date Collected: 05/25/04 Time: 1150

% Moisture: not dec. Date Received: 05/26/04

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 05/30/04 Time: 1917

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: ( µL

Soil Aliquot Volume: ( µL

*Number TICs Found:* 2

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1. | 7446-09-5 | Sulfur dioxide | 2.107 | 82.7 | |
| 2. | 124-19-6 | Nonanal | 11.17 | 2.38 | |

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8/23/04
MM

FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW7B1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No: SAS No: SDG No.: 204052617

Matrix (soil/water): Water

Sample wt/vol: 25 (g/mL) mL

Lab Sample ID: 20405261713

Level: (low/med)

Lab File ID: 2040530/T0253

% Moisture: not dec.

Date Collected: 05/25/04 Time: 0000

GC Column: DB-624-30M ID: 53 (mm)

Date Received: 05/26/04

Instrument ID: MSV1

Date Analyzed: 05/30/04 Time: 1455

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 274833

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 DP | J B | 0.010 | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 |

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R

FORM VOA

000082

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGWTB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20405261713

Level: (low/med)

Lab File ID: 2040530/T0253

% Moisture: not dec.

Date Collected: 05/25/04 Time: 0000

GC Column: DB-624-30M ID: .53 (mm

Date Received: 05/26/04

Instrument ID: MSV1

Date Analyzed: 05/30/04 Time: 1455

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 274833

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SKGWTB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: Water Lab Sample ID: 20405261713

Sample wt/vol: Units Lab File ID: 2040530/T0253

Level: (low/med) Date Collected: 05/25/04 Time: 0000

% Moisture: not dec. Date Received: 05/26/04

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 05/30/04 Time: 1455

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

*Number TICs Found:* 1

*CONCENTRATION UNITS*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1 | 7446-09-5 | Sulfur dioxide | 2.416 | 325 | |

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGWFB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20405261714

Level: (low/med)

Lab File ID: 2040530/T0265

% Moisture: not dec.

Date Collected: 05/25/04 Time: 1550

GC Column: DB-624-30M ID: .53 (mm

Date Received: 05/26/04

Instrument ID: MSV1

Date Analyzed: 05/30/04 Time: 1942

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 274833

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL | |
|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 | |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 | |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 | |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 | R |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 | |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 | |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 | |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 | |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 | |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 | |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 | |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 | |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 | |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-09-2 | Methylene chloride | 2.0 ~~0.35~~ | JB | 0.010 | 2.0 | U |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 | |

FORM I VOA

 8/23/04

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGWFB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20405261714

Level: (low/med) Lab File ID: 2040530/T0265

% Moisture: not dec. Date Collected: 05/25/04 Time: 1550

GC Column: DB-624-30M ID: 53 (mm Date Received: 05/26/04

Instrument ID: MSV1 Date Analyzed: 05/30/04 Time: 1942

Soil Extract Volume: (µL Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL Prep Batch: Analytical Batch: 274833

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 0.43 | J | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGWFB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: Water Lab Sample ID: 20405261714

Sample wt/vol: Units: Lab File ID: 2040530/T0265

Level: (low/med) Date Collected: 05/25/04 Time: 1550

% Moisture: not dec. Date Received: 05/26/04

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 05/30/04 Time: 1942

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: ( µL

Soil Aliquot Volume: ( µL

*Number TICs Found: 1*

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | | |
|---|---|---|---|---|---|---|
| 1. | 7446-09-5 | Sulfur dioxide | 2.411 | 285 | | U |

8/23/04
MT

FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWD031010

Lab Name: GCAL Contract

Lab Code: LA024 Case No.: SAS No. SDG No.: 204052617

Matrix (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20405261715

Level: (low/med) Lab File ID: 2040530/T0254

% Moisture: not dec. Date Collected: 05/27/04 Time: 1310

GC Column: DB-624-30M ID: 53 (mm) Date Received: 05/28/04

Instrument ID: MSV1 Date Analyzed: 05/30/04 Time: 1519

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 274833

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWD0310:0

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20405261715

Level: (low/med)

Lab File ID: 2040530/T0254

% Moisture: not dec.

Date Collected: 05/27/04 Time: 1310

GC Column: DB-624-30M ID: .53 (mm

Date Received: 05/28/04

Instrument ID: MSV1

Date Analyzed: 05/30/04 Time: 1519

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 274333

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSWD031010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: Water Lab Sample ID: 20405261715

Sample wt/vol: Units Lab File ID: 2040530/T0254

Level: (low/med) Date Collected: 05/27/04 Time: 1310

% Moisture: not dec. Date Received: 05/28/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 05/30/04 Time: 1519

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

*Number TICs Found:* 1

*CONCENTRATION UNITS*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1 | 7446-09-5 | Sulfur dioxide | 2.418 | 344 | |

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8/23/04

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWD03FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20405261719

Level: (low/med)

Lab File ID: 2040530/T0266

% Moisture: not dec.

Date Collected: 05/27/04 Time: 1330

GC Column: DB-624-30M ID: .53 (mm

Date Received: 05/28/04

Instrument ID: MSV1

Date Analyzed: 05/30/04 Time: 2006

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 274833

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 R |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 |

8/2/04 CR

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWD03FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No: SAS No.: SDG No.: 204052617

Matrix (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20405261719

Level (low/med) Lab File ID: 2040530/T0266

% Moisture: not dec. Date Collected: 05/27/04 Time: 1330

GC Column: DB-624-30M ID: 53 (mm) Date Received: 05/28/04

Instrument ID: MSV1 Date Analyzed: 05/30/04 Time: 2006

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 274833

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS:* ug/L

| *CAS NO.* | *COMPOUND* | *RESULT* | *Q* | *MDL* | *RL* |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSWD03FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: Water Lab Sample ID: 20405261719

Sample wt/vol: Units: Lab File ID: 2040530/T0266

Level: (low/med) Date Collected: 05/27/04 Time: 1330

% Moisture: not dec. Date Received: 05/28/04

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 05/30/04 Time: 2006

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: ( µL

Soil Aliquot Volume: ( µL

*Number TICs Found:* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1 | 7446-09-5 | Sulfur dioxide | 2.411 | 221 | |

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5/27/04 [illegible]

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWDEB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20405261720

Level: (low/med) Lab File ID: 2040530/T0267

% Moisture: not dec. Date Collected: 05/27/04 Time: 1455

GC Column: DB-624-30M ID: 53 (mm) Date Received: 05/28/04

Instrument ID: MSV1 Date Analyzed: 05/30/04 Time: 2031

Soil Extract Volume: (uL) Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (uL) Prep Batch: Analytical Batch: 274833

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 R |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 |
| 75-09-2 | Methylene chloride | ~~2.0~~ | ~~U~~ | 0.010 | 2.0 UL |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 |

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWDEB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20405261720

Level: (low/med)

Lab File ID: 2040530/T0267

% Moisture: not dec.

Date Collected: 05/27/04 Time: 1455

GC Column: DB-624-30M ID: .53 (mm

Date Received: 05/28/04

Instrument ID: MSV1

Date Analyzed: 05/30/04 Time: 2031

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 274833

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 0.41 | J | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 0.22 | J | 0.010 | 1.0 |

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSWDEB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: Water Lab Sample ID: 20405261720

Sample wt/vol: Units Lab File ID: 2040530T0267

Level: (low/med) Date Collected: 05/27/04 Time: 1455

% Moisture: not dec. Date Received: 05/28/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 05/30/04 Time: 2031

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

*Number TICs Found:* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1 | 7446-09-5 | Sulfur dioxide | 2.409 | 155 | |

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWDTB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20405261721

Level: (low/med)

Lab File ID: 2040530/T0268

% Moisture: not dec.

Date Collected: 05/27/04 Time: 0000

GC Column: DB-624-30M ID: .53 (mm

Date Received: 05/28/04

Instrument ID: MSV1

Date Analyzed: 05/30/04 Time: 2055

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 274833

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL | |
|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | J | 0.010 | 1.0 | |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 | |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 | |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 | |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 | R |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 | |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 | |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 | |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 | |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 | |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 | |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 | |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 | |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 | |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-09-2 | Methylene chloride | 2.0 ~~0.37~~ | B ~~J~~ | 0.010 | 2.0 | LL |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 | |

FORM I VOA

5/23/04 MF

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWDTB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No SAS No SDG No.: 204052617

Matrix (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20405261721

Level (low/med) Lab File ID: 2040530/T0268

% Moisture: not dec. Date Collected: 05/27/04 Time: 0000

GC Column: DB-624-30M ID: 53 (mm) Date Received: 05/28/04

Instrument ID: MSV1 Date Analyzed: 05/30/04 Time: 2055

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL) Prep Batch Analytical Batch: 274833

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSWDTB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: Water Lab Sample ID: 20405261721

Sample wt/vol: Units: Lab File ID: 2040530/T0268

Level: (low/med) Date Collected: 05/27/04 Time: 0000

% Moisture: not dec. Date Received: 05/28/04

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 05/30/04 Time: 2055

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: ( µL

Soil Aliquot Volume: ( µL

*Number TICs Found:* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1 . | 7446-09-5 | Sulfur dioxide | 2.416 | 336 | |

FORM I VOA-TIC

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No:
SAS No: SDG No: 20405261
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med)
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: 25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW591010
Contract:
Lab File ID: 2040615P/B1078
Lab Sample ID: 20405261701
Date Collected: 05/25/04 Time: 0935
Date Received: 05/26/04
Date Extracted: 5/27/04
Date Analyzed: 06/15/04 Time: 1921
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 274683 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 95-95-4 | 2,4,5-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 120-83-2 | 2,4-Dichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 51-28-5 | 2,4-Dinitrophenol | 25.0 | U | 0.010 | 25.0 | UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 91-58-7 | 2-Chloronaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 95-57-8 | 2-Chlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-57-6 | 2-Methylnaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 88-74-4 | 2-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 88-75-5 | 2-Nitrophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10.0 | U | 0.010 | 10.0 | |
| 99-09-2 | 3-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 25.0 | U | 0.010 | 25.0 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10.0 | U | 0.010 | 10.0 | |
| 106-47-8 | 4-Chloroaniline | 10.0 | U | 0.010 | 10.0 | R |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10.0 | U | 0.010 | 10.0 | |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10.0 | U | 0.010 | 10.0 | |
| 83-32-9 | Acenaphthene | 10.0 | U | 0.010 | 10.0 | |
| 208-96-8 | Acenaphthylene | 10.0 | U | 0.010 | 10.0 | |
| 120-12-7 | Anthracene | 10.0 | U | 0.010 | 10.0 | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | U | 0.010 | 10.0 | |
| 50-32-8 | Benzo(a)pyrene | 10.0 | U | 0.010 | 10.0 | |
| 205-99-2 | Benzo(b)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 191-24-2 | Benzo(g,h,i)perylene | 10.0 | U | 0.010 | 10.0 | |
| 207-08-9 | Benzo(k)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10.0 | U | 0.010 | 10.0 | |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 117-81-7 | bis(2-ethylhexyl)phthalate | 0.0226 | J B | 0.010 | 10.0 | U |

5/27/04
MSL

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204052617
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med)
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW591010
Contract:
Lab File ID: 2040615P/B1078
Lab Sample ID: 20405261701
Date Collected: 05/25/04 Time: 0935
Date Received: 05/26/04
Date Extracted: 5/27/04
Date Analyzed: 06/15/04 Time: 1921
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 274683 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL |
|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenylether | 10.0 | U | 0.010 | 10.0 |
| 85-68-7 | Butylbenzylphthalate | 10.0 | U | 0.010 | 10.0 |
| 86-74-8 | Carbazole | 10.0 | U | 0.010 | 10.0 |
| 218-01-9 | Chrysene | 10.0 | U | 0.010 | 10.0 |
| 84-74-2 | Di-n-butylphthalate | 10.0 | U | 0.010 | 10.0 |
| 117-84-0 | Di-n-octylphthalate | 10.0 | U | 0.010 | 10.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 10.0 | U | 0.010 | 10.0 |
| 132-64-9 | Dibenzofuran | 10.0 | U | 0.010 | 10.0 |
| 84-66-2 | Diethylphthalate | 10.0 | U | 0.010 | 10.0 |
| 131-11-3 | Dimethyl-phthalate | 10.0 | U | 0.010 | 10.0 |
| 105-67-9 | 2,4-Dimethylphenol | 10.0 | U | 0.010 | 10.0 |
| 206-44-0 | Fluoranthene | 10.0 | U | 0.010 | 10.0 |
| 86-73-7 | Fluorene | 10.0 | U | 0.010 | 10.0 |
| 118-74-1 | Hexachlorobenzene | 10.0 | U | 0.010 | 10.0 |
| 87-68-3 | Hexachlorobutadiene | 10.0 | U | 0.010 | 10.0 |
| 77-47-4 | Hexachlorocyclopentadiene | 10.0 | U | 0.010 | 10.0 |
| 67-72-1 | Hexachloroethane | 10.0 | U | 0.010 | 10.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10.0 | U | 0.010 | 10.0 |
| 78-59-1 | Isophorone | 10.0 | U | 0.010 | 10.0 |
| 91-20-3 | Naphthalene | 10.0 | U | 0.010 | 10.0 |
| 100-01-6 | 4-Nitroaniline | 25.0 | U | 0.010 | 25.0 |
| 98-95-3 | Nitrobenzene | 10.0 | U | 0.010 | 10.0 |
| 100-02-7 | 4-Nitrophenol | 25.0 | U | 0.010 | 25.0 |
| 87-86-5 | Pentachlorophenol | 25.0 | U | 0.010 | 25.0 |
| 85-01-8 | Phenanthrene | 10.0 | U | 0.010 | 10.0 |
| 108-95-2 | Phenol | 10.0 | U | 0.010 | 10.0 |
| 129-00-0 | Pyrene | 10.0 | U | 0.010 | 10.0 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10.0 | U | 0.010 | 10.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 10.0 | U | 0.010 | 10.0 |
| 95-48-7 | o-Cresol | 10.0 | U | 0.010 | 10.0 |

8/23/04 MSC

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204052617
Matrix: Water
Sample wt/vol: Units
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: 25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW591010
Contract:
Lab File ID: 2040615P/B1078
Lab Sample ID: 20405261701
Date Collected: 05/25/04 Time: 0935
Date Received: 05/25/04
Date Extracted: 5/27/04
Date Analyzed: 06/15/04 Time: 1921
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

*Number TICs Found :* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 6.575 | 165 | |

5/27/04
MG

FORM I SV-TIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204052617

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 ( µL )

Injection Volume: 1.0 ( µL )

GPC Cleanup: (Y/N) N pH:

*CONCENTRATION UNITS: ug/L*

Sample ID: SKGW601010

Contract:

Lab File ID: 2040615P/B1079

Lab Sample ID: 20405261702

Date Collected: 05/25/04 Time: 1010

Date Received: 05/26/04

Date Extracted: 5/27/04

Date Analyzed: 06/15/04 Time: 1939

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 274683 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 95-95-4 | 2,4,5-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 120-83-2 | 2,4-Dichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 51-28-5 | 2,4-Dinitrophenol | 25.0 | U | 0.010 | 25.0 | UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 91-58-7 | 2-Chloronaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 95-57-8 | 2-Chlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-57-6 | 2-Methylnaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 88-74-4 | 2-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 88-75-5 | 2-Nitrophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10.0 | U | 0.010 | 10.0 | |
| 99-09-2 | 3-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 25.0 | U | 0.010 | 25.0 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10.0 | U | 0.010 | 10.0 | R |
| 106-47-8 | 4-Chloroaniline | 10.0 | U | 0.010 | 10.0 | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10.0 | U | 0.010 | 10.0 | |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10.0 | U | 0.010 | 10.0 | |
| 83-32-9 | Acenaphthene | 10.0 | U | 0.010 | 10.0 | |
| 208-96-8 | Acenaphthylene | 10.0 | U | 0.010 | 10.0 | |
| 120-12-7 | Anthracene | 10.0 | U | 0.010 | 10.0 | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | U | 0.010 | 10.0 | |
| 50-32-8 | Benzo(a)pyrene | 10.0 | U | 0.010 | 10.0 | |
| 205-99-2 | Benzo(b)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 191-24-2 | Benzo(g,h,i)perylene | 10.0 | U | 0.010 | 10.0 | |
| 207-08-9 | Benzo(k)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10.0 | U | 0.010 | 10.0 | |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 117-81-7 | bis(2-ethylhexyl)phthalate | 10.0 ~~3.19~~ | J B | 0.010 | 10.0 | UL |

FORM I SV-1

8/23/04 MK

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204052617
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med)
% Moisture: decanted (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

*CONCENTRATION UNITS:* ug/L

Sample ID: SKGW601010
Contract:
Lab File ID: 2040615P/B1079
Lab Sample ID: 20405261702
Date Collected: 05/25/04 Time: 1010
Date Received: 05/26/04
Date Extracted: 5/27/04
Date Analyzed: 06/15/04 Time: 1939
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 274683 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL |
|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenylether | 10.0 | U | 0.010 | 10.0 |
| 85-68-7 | Butylbenzylphthalate | 10.0 | U | 0.010 | 10.0 |
| 86-74-8 | Carbazole | 10.0 | U | 0.010 | 10.0 |
| 218-01-9 | Chrysene | 10.0 | U | 0.010 | 10.0 |
| 84-74-2 | Di-n-butylphthalate | 10.0 ~~1.22~~ | J B | 0.010 | 10.0 |
| 117-84-0 | Di-n-octylphthalate | 10.0 | U | 0.010 | 10.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 10.0 | U | 0.010 | 10.0 |
| 132-64-9 | Dibenzofuran | 10.0 | U | 0.010 | 10.0 |
| 84-66-2 | Diethylphthalate | 10.0 | U | 0.010 | 10.0 |
| 131-11-3 | Dimethyl-phthalate | 10.0 | U | 0.010 | 10.0 |
| 105-67-9 | 2,4-Dimethylphenol | 10.0 | U | 0.010 | 10.0 |
| 206-44-0 | Fluoranthene | 10.0 | U | 0.010 | 10.0 |
| 86-73-7 | Fluorene | 10.0 | U | 0.010 | 10.0 |
| 118-74-1 | Hexachlorobenzene | 10.0 | U | 0.010 | 10.0 |
| 87-68-3 | Hexachlorobutadiene | 10.0 | U | 0.010 | 10.0 |
| 77-47-4 | Hexachlorocyclopentadiene | 10.0 | U | 0.010 | 10.0 |
| 67-72-1 | Hexachloroethane | 10.0 | U | 0.010 | 10.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10.0 | U | 0.010 | 10.0 |
| 78-59-1 | Isophorone | 10.0 | U | 0.010 | 10.0 |
| 91-20-3 | Naphthalene | 10.0 | U | 0.010 | 10.0 |
| 100-01-6 | 4-Nitroaniline | 25.0 | U | 0.010 | 25.0 |
| 98-95-3 | Nitrobenzene | 10.0 | U | 0.010 | 10.0 |
| 100-02-7 | 4-Nitrophenol | 25.0 | U | 0.010 | 25.0 |
| 87-86-5 | Pentachlorophenol | 25.0 | U | 0.010 | 25.0 |
| 85-01-8 | Phenanthrene | 10.0 | U | 0.010 | 10.0 |
| 108-95-2 | Phenol | 10.0 | U | 0.010 | 10.0 |
| 129-00-0 | Pyrene | 10.0 | U | 0.010 | 10.0 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10.0 | U | 0.010 | 10.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 10.0 | U | 0.010 | 10.0 |
| 95-48-7 | o-Cresol | 10.0 | U | 0.010 | 10.0 |

U

8/23/04
MSE

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL

Lab Code: LA024 2 Case No.:

SAS No.: SDG No.: 204052617

Matrix: Water

Sample wt/vol: Units:

Level: (low/med)

% Moisture: not dec.

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW601010

Contract:

Lab File ID: 2040615P/B1079

Lab Sample ID: 20405261702

Date Collected: 05/25/04 Time: 1010

Date Received: 05/26/04

Date Extracted: 5/27/04

Date Analyzed: 06/15/04 Time: 1939

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: SW-846 8270C

Instrument ID: MSSV3

*Number TICs Found :* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 6.551 | 59.4 | |

8/23/04.
MSL

FORM I SV-TIC

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204052617
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med)
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: 25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW62A1010
Contract:
Lab File ID: 2040615P/B1080
Lab Sample ID: 20405261703
Date Collected: 05/25/04 Time: 1045
Date Received: 05/26/04
Date Extracted: 5/27/04
Date Analyzed: 06/15/04 Time: 1957
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 274683 Analytical Batch: 275913

*CONCENTRATION UNITS:* *ug/L*

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 95-95-4 | 2,4,5-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 120-83-2 | 2,4-Dichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 51-28-5 | 2,4-Dinitrophenol | 25.0 | U | 0.010 | 25.0 | UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 91-58-7 | 2-Chloronaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 95-57-8 | 2-Chlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-57-6 | 2-Methylnaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 88-74-4 | 2-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 88-75-5 | 2-Nitrophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10.0 | U | 0.010 | 10.0 | |
| 99-09-2 | 3-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 25.0 | U | 0.010 | 25.0 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10.0 | U | 0.010 | 10.0 | |
| 106-47-8 | 4-Chloroaniline | 10.0 | U | 0.010 | 10.0 | R |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10.0 | U | 0.010 | 10.0 | |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10.0 | U | 0.010 | 10.0 | |
| 83-32-9 | Acenaphthene | 10.0 | U | 0.010 | 10.0 | |
| 208-96-8 | Acenaphthylene | 10.0 | U | 0.010 | 10.0 | |
| 120-12-7 | Anthracene | 10.0 | U | 0.010 | 10.0 | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | U | 0.010 | 10.0 | |
| 50-32-8 | Benzo(a)pyrene | 10.0 | U | 0.010 | 10.0 | |
| 205-99-2 | Benzo(b)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 191-24-2 | Benzo(g,h,i)perylene | 10.0 | U | 0.010 | 10.0 | |
| 207-08-9 | Benzo(k)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10.0 | U | 0.010 | 10.0 | |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 117-81-7 | bis(2-ethylhexyl)phthalate | 10.0 | J B | 0.010 | 10.0 | U |

5/27/04
MM

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204052617

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

*CONCENTRATION UNITS: ug/L*

Sample ID: SKGW62A1010

Contract:

Lab File ID: 2040615P/B1080

Lab Sample ID: 20405261703

Date Collected: 05/25/04 Time: 1045

Date Received: 05/26/04

Date Extracted: 5/27/04

Date Analyzed: 06/15/04 Time: 1957

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 274683 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL |
|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenylether | 10.0 | U | 0.010 | 10.0 |
| 85-68-7 | Butylbenzylphthalate | 10.0 | U | 0.010 | 10.0 |
| 86-74-8 | Carbazole | 10.0 | U | 0.010 | 10.0 |
| 218-01-9 | Chrysene | 10.0 | U | 0.010 | 10.0 |
| 84-74-2 | Di-n-butylphthalate | 10.0 | U | 0.010 | 10.0 |
| 117-84-0 | Di-n-octylphthalate | 10.0 | U | 0.010 | 10.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 10.0 | U | 0.010 | 10.0 |
| 132-64-9 | Dibenzofuran | 10.0 | U | 0.010 | 10.0 |
| 84-66-2 | Diethylphthalate | 10.0 | U | 0.010 | 10.0 |
| 131-11-3 | Dimethyl-phthalate | 10.0 | U | 0.010 | 10.0 |
| 105-67-9 | 2,4-Dimethylphenol | 10.0 | U | 0.010 | 10.0 |
| 206-44-0 | Fluoranthene | 10.0 | U | 0.010 | 10.0 |
| 86-73-7 | Fluorene | 10.0 | U | 0.010 | 10.0 |
| 118-74-1 | Hexachlorobenzene | 10.0 | U | 0.010 | 10.0 |
| 87-68-3 | Hexachlorobutadiene | 10.0 | U | 0.010 | 10.0 |
| 77-47-4 | Hexachlorocyclopentadiene | 10.0 | U | 0.010 | 10.0 |
| 67-72-1 | Hexachloroethane | 10.0 | U | 0.010 | 10.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10.0 | U | 0.010 | 10.0 |
| 78-59-1 | Isophorone | 10.0 | U | 0.010 | 10.0 |
| 91-20-3 | Naphthalene | 10.0 | U | 0.010 | 10.0 |
| 100-01-6 | 4-Nitroaniline | 25.0 | U | 0.010 | 25.0 |
| 98-95-3 | Nitrobenzene | 10.0 | U | 0.010 | 10.0 |
| 100-02-7 | 4-Nitrophenol | 25.0 | U | 0.010 | 25.0 |
| 87-86-5 | Pentachlorophenol | 25.0 | U | 0.010 | 25.0 |
| 85-01-8 | Phenanthrene | 10.0 | U | 0.010 | 10.0 |
| 108-95-2 | Phenol | 10.0 | U | 0.010 | 10.0 |
| 129-00-0 | Pyrene | 10.0 | U | 0.010 | 10.0 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10.0 | U | 0.010 | 10.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 10.0 | U | 0.010 | 10.0 |
| 95-48-7 | o-Cresol | 10.0 | U | 0.010 | 10.0 |



8/27/04
MSB

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204052617
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW62A1010
Contract:
Lab File ID: 2040615P/B1080
Lab Sample ID: 20405261703
Date Collected: 05/25/04 Time: 1045
Date Received: 05/26/04
Date Extracted: 5/27/04
Date Analyzed: 06/15/04 Time: 1957
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

*Number TICs Found :* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 6.555 | 78.9 | |

5/23/04
MSK

FORM I SV-TIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204052617

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

*CONCENTRATION UNITS: ug/L*

Sample ID: SKGW641010

Contract:

Lab File ID: 2040615P/B1081

Lab Sample ID: 20405261704

Date Collected: 05/25/04 Time: 1125

Date Received: 05/26/04

Date Extracted: 5/27/04

Date Analyzed: 06/15/04 Time: 2014

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 274683 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 95-95-4 | 2,4,5-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 120-83-2 | 2,4-Dichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 51-28-5 | 2,4-Dinitrophenol | 25.0 | U | 0.010 | 25.0 | UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 91-58-7 | 2-Chloronaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 95-57-8 | 2-Chlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-57-6 | 2-Methylnaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 88-74-4 | 2-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 88-75-5 | 2-Nitrophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10.0 | U | 0.010 | 10.0 | |
| 99-09-2 | 3-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 25.0 | U | 0.010 | 25.0 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10.0 | U | 0.010 | 10.0 | |
| 106-47-8 | 4-Chloroaniline | 10.0 | U | 0.010 | 10.0 | R |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10.0 | U | 0.010 | 10.0 | |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10.0 | U | 0.010 | 10.0 | |
| 83-32-9 | Acenaphthene | 10.0 | U | 0.010 | 10.0 | |
| 208-96-8 | Acenaphthylene | 10.0 | U | 0.010 | 10.0 | |
| 120-12-7 | Anthracene | 10.0 | U | 0.010 | 10.0 | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | U | 0.010 | 10.0 | |
| 50-32-8 | Benzo(a)pyrene | 10.0 | U | 0.010 | 10.0 | |
| 205-99-2 | Benzo(b)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 191-24-2 | Benzo(g,h,i)perylene | 10.0 | U | 0.010 | 10.0 | |
| 207-08-9 | Benzo(k)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10.0 | U | 0.010 | 10.0 | |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 117-81-7 | bis(2-ethylhexyl)phthalate | 10.0 ~~6.39~~ | J B | 0.010 | 10.0 | U |

8/23/04
MSW

FORM I SV-1

000244

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No:
SAS No.: SDG No.: 204052617
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med)
% Moisture: decanted (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW641010
Contract:
Lab File ID: 2040615P/B1081
Lab Sample ID: 20405261704
Date Collected: 05/25/04 Time: 1125
Date Received: 05/26/04
Date Extracted: 5/27/04
Date Analyzed: 06/15/04 Time: 2014
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 274683 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL |
|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenylether | 10.0 | U | 0.010 | 10.0 |
| 85-68-7 | Butylbenzylphthalate | 10.0 | U | 0.010 | 10.0 |
| 86-74-8 | Carbazole | 10.0 | U | 0.010 | 10.0 |
| 218-01-9 | Chrysene | 10.0 | U | 0.010 | 10.0 |
| 84-74-2 | Di-n-butylphthalate | 10.0 | U | 0.010 | 10.0 |
| 117-84-0 | Di-n-octylphthalate | 10.0 | U | 0.010 | 10.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 10.0 | U | 0.010 | 10.0 |
| 132-64-9 | Dibenzofuran | 10.0 | U | 0.010 | 10.0 |
| 84-66-2 | Diethylphthalate | 10.0 | U | 0.010 | 10.0 |
| 131-11-3 | Dimethyl-phthalate | 10.0 | U | 0.010 | 10.0 |
| 105-67-9 | 2,4-Dimethylphenol | 10.0 | U | 0.010 | 10.0 |
| 206-44-0 | Fluoranthene | 10.0 | U | 0.010 | 10.0 |
| 86-73-7 | Fluorene | 10.0 | U | 0.010 | 10.0 |
| 118-74-1 | Hexachlorobenzene | 10.0 | U | 0.010 | 10.0 |
| 87-68-3 | Hexachlorobutadiene | 10.0 | U | 0.010 | 10.0 |
| 77-47-4 | Hexachlorocyclopentadiene | 10.0 | U | 0.010 | 10.0 |
| 67-72-1 | Hexachloroethane | 10.0 | U | 0.010 | 10.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10.0 | U | 0.010 | 10.0 |
| 78-59-1 | Isophorone | 10.0 | U | 0.010 | 10.0 |
| 91-20-3 | Naphthalene | 10.0 | U | 0.010 | 10.0 |
| 100-01-6 | 4-Nitroaniline | 25.0 | U | 0.010 | 25.0 |
| 98-95-3 | Nitrobenzene | 10.0 | U | 0.010 | 10.0 |
| 100-02-7 | 4-Nitrophenol | 25.0 | U | 0.010 | 25.0 |
| 87-86-5 | Pentachlorophenol | 25.0 | U | 0.010 | 25.0 |
| 85-01-8 | Phenanthrene | 10.0 | U | 0.010 | 10.0 |
| 108-95-2 | Phenol | 10.0 | U | 0.010 | 10.0 |
| 129-00-0 | Pyrene | 10.0 | U | 0.010 | 10.0 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10.0 | U | 0.010 | 10.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 10.0 | U | 0.010 | 10.0 |
| 95-48-7 | o-Cresol | 10.0 | U | 0.010 | 10.0 |

8/23/04
MS

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204052617
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW641010
Contract:
Lab File ID: 2040615P/B1081
Lab Sample ID: 20405261704
Date Collected: 05/25/04 Time: 1125
Date Received: 05/26/04
Date Extracted: 5/27/04
Date Analyzed: 06/15/04 Time: 2014
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

*Number TICs Found :* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 6.551 | 99.1 | |

5/23/04
MSW

FORM I SV-TIC

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGWEB1010

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204052617 | Lab File ID: 2040615P/B1082

Matrix: Water | Lab Sample ID: 20405261705

Sample wt/vol: 1000 Units mL | Date Collected: 05/25/04 | Time: 1440

Level (low/med): | Date Received: 05/26/04

% Moisture: decanted (Y/N) | Date Extracted: 5/27/04 mc

GC Column: DB-5MS-30M ID: 25 (mm) | Date Analyzed: 06/15/04 | Time: 2032

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: RLW

Injection Volume: 1.0 (µL) | Prep Method: 3520

GPC Cleanup: (Y/N) N pH: | Analytical Method: OLMO 4.2

Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L | Prep Batch: 274683 | Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 95-95-4 | 2,4,5-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 120-83-2 | 2,4-Dichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 51-28-5 | 2,4-Dinitrophenol | 25.0 | U | 0.010 | 25.0 | UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 91-58-7 | 2-Chloronaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 95-57-8 | 2-Chlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-57-6 | 2-Methylnaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 88-74-4 | 2-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 88-75-5 | 2-Nitrophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10.0 | U | 0.010 | 10.0 | |
| 99-09-2 | 3-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 25.0 | U | 0.010 | 25.0 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10.0 | U | 0.010 | 10.0 | |
| 106-47-8 | 4-Chloroaniline | 10.0 | U | 0.010 | 10.0 | R |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10.0 | U | 0.010 | 10.0 | |
| 106-44-5 | 4-Methylphenol/p-Cresol | 10.0 | U | 0.010 | 10.0 | |
| 83-32-9 | Acenaphthene | 10.0 | U | 0.010 | 10.0 | |
| 208-96-8 | Acenaphthylene | 10.0 | U | 0.010 | 10.0 | |
| 120-12-7 | Anthracene | 10.0 | U | 0.010 | 10.0 | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | U | 0.010 | 10.0 | |
| 50-32-8 | Benzo(a)pyrene | 10.0 | U | 0.010 | 10.0 | |
| 205-99-2 | Benzo(b)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 191-24-2 | Benzo(g,h,i)perylene | 10.0 | U | 0.010 | 10.0 | |
| 207-08-9 | Benzo(k)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10.0 | U | 0.010 | 10.0 | |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 117-81-7 | bis(2-ethylhexyl)phthalate | 10.0 | U | 0.010 | 10.0 | |

8/23/04 mt

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204052617

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

*CONCENTRATION UNITS: ug/L*

Sample ID: SKGWEB1010

Contract:

Lab File ID: 2040615P/B1082

Lab Sample ID: 20405261705

Date Collected: 05/25/04 Time: 1440

Date Received: 05/26/04

Date Extracted: 5/27/04

Date Analyzed: 06/15/04 Time: 2032

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 274683 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL |
|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenylether | 10.0 | U | 0.010 | 10.0 |
| 85-68-7 | Butylbenzylphthalate | 10.0 | U | 0.010 | 10.0 |
| 86-74-8 | Carbazole | 10.0 | U | 0.010 | 10.0 |
| 218-01-9 | Chrysene | 10.0 | U | 0.010 | 10.0 |
| 84-74-2 | Di-n-butylphthalate | 10.0 ~~0.689~~ | J 6 | 0.010 | 10.0 |
| 117-84-0 | Di-n-octylphthalate | 10.0 | U | 0.010 | 10.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 10.0 | U | 0.010 | 10.0 |
| 132-64-9 | Dibenzofuran | 10.0 | U | 0.010 | 10.0 |
| 84-66-2 | Diethylphthalate | 10.0 | U | 0.010 | 10.0 |
| 131-11-3 | Dimethyl-phthalate | 10.0 | U | 0.010 | 10.0 |
| 105-67-9 | 2,4-Dimethylphenol | 10.0 | U | 0.010 | 10.0 |
| 206-44-0 | Fluoranthene | 10.0 | U | 0.010 | 10.0 |
| 86-73-7 | Fluorene | 10.0 | U | 0.010 | 10.0 |
| 118-74-1 | Hexachlorobenzene | 10.0 | U | 0.010 | 10.0 |
| 87-68-3 | Hexachlorobutadiene | 10.0 | U | 0.010 | 10.0 |
| 77-47-4 | Hexachlorocyclopentadiene | 10.0 | U | 0.010 | 10.0 |
| 67-72-1 | Hexachloroethane | 10.0 | U | 0.010 | 10.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10.0 | U | 0.010 | 10.0 |
| 78-59-1 | Isophorone | 10.0 | U | 0.010 | 10.0 |
| 91-20-3 | Naphthalene | 10.0 | U | 0.010 | 10.0 |
| 100-01-6 | 4-Nitroaniline | 25.0 | U | 0.010 | 25.0 |
| 98-95-3 | Nitrobenzene | 10.0 | U | 0.010 | 10.0 |
| 100-02-7 | 4-Nitrophenol | 25.0 | U | 0.010 | 25.0 |
| 87-86-5 | Pentachlorophenol | 25.0 | U | 0.010 | 25.0 |
| 85-01-8 | Phenanthrene | 10.0 | U | 0.010 | 10.0 |
| 108-95-2 | Phenol | 10.0 | U | 0.010 | 10.0 |
| 129-00-0 | Pyrene | 10.0 | U | 0.010 | 10.0 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10.0 | U | 0.010 | 10.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 10.0 | U | 0.010 | 10.0 |
| 95-48-7 | o-Cresol | 10.0 | U | 0.010 | 10.0 |

U

8/27/04 MR

FORM I SV-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204052617
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGWEB1010
Contract:
Lab File ID: 2040615P/B1082
Lab Sample ID: 20405261705
Date Collected: 05/25/04 Time: 1440
Date Received: 05/26/04
Date Extracted: 5/27/04
Date Analyzed: 06/15/04 Time: 2032
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

*Number TICs Found :* 1

*CONCENTRATION UNITS*

| | CAS NO. | COMPOUND | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 5.557 | 7.61 | |

5/23/04
MK

FORM I SV-TIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204052617

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 ( µL )

Injection Volume: 1.0 ( µL )

GPC Cleanup: (Y/N) N pH:

*CONCENTRATION UNITS: ug/L*

Sample ID: SKSWD031010

Contract:

Lab File ID: 2040615P/B1084

Lab Sample ID: 20405261715

Date Collected: 05/27/04 Time: 1310

Date Received: 05/28/04

Date Extracted: 6/1/04

Date Analyzed: 06/15/04 Time: 2107

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 275024 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 95-95-4 | 2,4,5-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 120-83-2 | 2,4-Dichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 51-28-5 | 2,4-Dinitrophenol | 25.0 | U | 0.010 | 25.0 | UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 91-58-7 | 2-Chloronaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 95-57-8 | 2-Chlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-57-6 | 2-Methylnaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 88-74-4 | 2-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 88-75-5 | 2-Nitrophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10.0 | U | 0.010 | 10.0 | |
| 99-09-2 | 3-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 25.0 | U | 0.010 | 25.0 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10.0 | U | 0.010 | 10.0 | |
| 106-47-8 | 4-Chloroaniline | 10.0 | U | 0.010 | 10.0 | R |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10.0 | U | 0.010 | 10.0 | |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10.0 | U | 0.010 | 10.0 | |
| 83-32-9 | Acenaphthene | 10.0 | U | 0.010 | 10.0 | |
| 208-96-8 | Acenaphthylene | 10.0 | U | 0.010 | 10.0 | |
| 120-12-7 | Anthracene | 10.0 | U | 0.010 | 10.0 | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | U | 0.010 | 10.0 | |
| 50-32-8 | Benzo(a)pyrene | 10.0 | U | 0.010 | 10.0 | |
| 205-99-2 | Benzo(b)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 191-24-2 | Benzo(g,h,i)perylene | 10.0 | U | 0.010 | 10.0 | |
| 207-08-9 | Benzo(k)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10.0 | U | 0.010 | 10.0 | |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 117-81-7 | bis(2-ethylhexyl)phthalate | 10.0 | U | 0.010 | 10.0 | |

FORM I SV-1

8/23/04
MSW

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204052617
Matrix: Water
Sample wt/vol: 1000 Units mL
Level: (low/med)
% Moisture: decanted (Y/N)
GC Column: DB-5MS-30M ID 25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSWD031010
Contract:
Lab File ID: 2040615P/B1084
Lab Sample ID: 20405261715
Date Collected: 05/27/04 Time: 1310
Date Received: 05/28/04
Date Extracted: 6/1/04
Date Analyzed: 06/15/04 Time: 2107
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 275024 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL |
|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenylether | 10.0 | U | 0.010 | 10.0 |
| 85-68-7 | Butylbenzylphthalate | 10.0 | U | 0.010 | 10.0 |
| 86-74-8 | Carbazole | 10.0 | U | 0.010 | 10.0 |
| 218-01-9 | Chrysene | 10.0 | U | 0.010 | 10.0 |
| 84-74-2 | Di-n-butylphthalate | ~~0.0639~~ | J B | 0.010 | 10.0 |
| 117-84-0 | Di-n-octylphthalate | 10.0 | U | 0.010 | 10.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 10.0 | U | 0.010 | 10.0 |
| 132-64-9 | Dibenzofuran | 10.0 | U | 0.010 | 10.0 |
| 84-66-2 | Diethylphthalate | 10.0 | U | 0.010 | 10.0 |
| 131-11-3 | Dimethyl-phthalate | 10.0 | U | 0.010 | 10.0 |
| 105-67-9 | 2,4-Dimethylphenol | 10.0 | U | 0.010 | 10.0 |
| 206-44-0 | Fluoranthene | 10.0 | U | 0.010 | 10.0 |
| 86-73-7 | Fluorene | 10.0 | U | 0.010 | 10.0 |
| 118-74-1 | Hexachlorobenzene | 10.0 | U | 0.010 | 10.0 |
| 87-68-3 | Hexachlorobutadiene | 10.0 | U | 0.010 | 10.0 |
| 77-47-4 | Hexachlorocyclopentadiene | 10.0 | U | 0.010 | 10.0 |
| 67-72-1 | Hexachloroethane | 10.0 | U | 0.010 | 10.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10.0 | U | 0.010 | 10.0 |
| 78-59-1 | Isophorone | 10.0 | U | 0.010 | 10.0 |
| 91-20-3 | Naphthalene | 10.0 | U | 0.010 | 10.0 |
| 100-01-6 | 4-Nitroaniline | 25.0 | U | 0.010 | 25.0 |
| 98-95-3 | Nitrobenzene | 10.0 | U | 0.010 | 10.0 |
| 100-02-7 | 4-Nitrophenol | 25.0 | U | 0.010 | 25.0 |
| 87-86-5 | Pentachlorophenol | 25.0 | U | 0.010 | 25.0 |
| 85-01-8 | Phenanthrene | 10.0 | U | 0.010 | 10.0 |
| 108-95-2 | Phenol | 10.0 | U | 0.010 | 10.0 |
| 129-00-0 | Pyrene | 10.0 | U | 0.010 | 10.0 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10.0 | U | 0.010 | 10.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 10.0 | U | 0.010 | 10.0 |
| 95-48-7 | o-Cresol | 10.0 | U | 0.010 | 10.0 |

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8/23/04 MR

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204052617
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD031010
Contract:
Lab File ID: B1085
Lab Sample ID: 20405261715
Date Collected: 05/27/04 Time: 1310
Date Received: 05/28/04
Date Extracted: 6/1/04
Date Analyzed: 06/15/04 Time: 2107
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

*Number TICs Found :* 0

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | No tics detected | | | |

8/23/04
MS

FORM I SV-TIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204052617
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med)
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSWD03FD1010
Contract:
Lab File ID: 2040615P/B1087
Lab Sample ID: 20405261719
Date Collected: 05/27/04 Time: 1330
Date Received: 05/28/04
Date Extracted: 6/1/04
Date Analyzed: 06/15/04 Time: 2200
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 275024 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL | |
|---|---|---|---|---|---|---|
| 95-95-4 | 2,4,5-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 120-83-2 | 2,4-Dichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 51-28-5 | 2,4-Dinitrophenol | 25.0 | U | 0.010 | 25.0 | UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 91-58-7 | 2-Chloronaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 95-57-8 | 2-Chlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-57-6 | 2-Methylnaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 88-74-4 | 2-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 88-75-5 | 2-Nitrophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10.0 | U | 0.010 | 10.0 | |
| 99-09-2 | 3-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 25.0 | U | 0.010 | 25.0 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10.0 | U | 0.010 | 10.0 | |
| 106-47-8 | 4-Chloroaniline | 10.0 | U | 0.010 | 10.0 | R |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10.0 | U | 0.010 | 10.0 | |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10.0 | U | 0.010 | 10.0 | |
| 83-32-9 | Acenaphthene | 10.0 | U | 0.010 | 10.0 | |
| 208-96-8 | Acenaphthylene | 10.0 | U | 0.010 | 10.0 | |
| 120-12-7 | Anthracene | 10.0 | U | 0.010 | 10.0 | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | U | 0.010 | 10.0 | |
| 50-32-8 | Benzo(a)pyrene | 10.0 | U | 0.010 | 10.0 | |
| 205-99-2 | Benzo(b)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 191-24-2 | Benzo(g,h,i)perylene | 10.0 | U | 0.010 | 10.0 | |
| 207-08-9 | Benzo(k)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10.0 | U | 0.010 | 10.0 | |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 117-81-7 | bis(2-ethylhexyl)phthalate | 438 | | 0.010 | 10.0 | |

FORM I SV-1

8/23/04
MM

1B

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSWD03FD1010

Lab Code: LA024 | Case No.: | Contract:

SAS No.: | SDG No.: 204052617 | Lab File ID: 2040615P/B1087

Matrix: Water | Lab Sample ID: 20405261719

Sample wt/vol: 1000 | Units: mL | Date Collected: 05/27/04 | Time: 1330

Level: (low/med) | Date Received: 05/28/04

% Moisture: | decanted (Y/N) | Date Extracted: 6/1/04

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 06/15/04 | Time: 2200

Concentrated Extract Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: RLW

Injection Volume: 1.0 (µL) | Prep Method: 3520

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLM0 4.2

Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L | Prep Batch: 275024 | Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenylether | 10.0 | U | 0.010 | 10.0 |
| 85-68-7 | Butylbenzylphthalate | 10.0 | U | 0.010 | 10.0 |
| 86-74-8 | Carbazole | 10.0 | U | 0.010 | 10.0 |
| 218-01-9 | Chrysene | 10.0 | U | 0.010 | 10.0 |
| 84-74-2 | Di-n-butylphthalate | ~~10.0~~ 3.52 | J B | 0.010 | 10.0 |
| 117-84-0 | Di-n-octylphthalate | 10.0 | U | 0.010 | 10.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 10.0 | U | 0.010 | 10.0 |
| 132-64-9 | Dibenzofuran | 10.0 | U | 0.010 | 10.0 |
| 84-66-2 | Diethylphthalate | 10.0 | U | 0.010 | 10.0 |
| 131-11-3 | Dimethyl-phthalate | 10.0 | U | 0.010 | 10.0 |
| 105-67-9 | 2,4-Dimethylphenol | 10.0 | U | 0.010 | 10.0 |
| 206-44-0 | Fluoranthene | 10.0 | U | 0.010 | 10.0 |
| 86-73-7 | Fluorene | 10.0 | U | 0.010 | 10.0 |
| 118-74-1 | Hexachlorobenzene | 10.0 | U | 0.010 | 10.0 |
| 87-68-3 | Hexachlorobutadiene | 10.0 | U | 0.010 | 10.0 |
| 77-47-4 | Hexachlorocyclopentadiene | 10.0 | U | 0.010 | 10.0 |
| 67-72-1 | Hexachloroethane | 10.0 | U | 0.010 | 10.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10.0 | U | 0.010 | 10.0 |
| 78-59-1 | Isophorone | 10.0 | U | 0.010 | 10.0 |
| 91-20-3 | Naphthalene | 10.0 | U | 0.010 | 10.0 |
| 100-01-6 | 4-Nitroaniline | 25.0 | U | 0.010 | 25.0 |
| 98-95-3 | Nitrobenzene | 10.0 | U | 0.010 | 10.0 |
| 100-02-7 | 4-Nitrophenol | 25.0 | U | 0.010 | 25.0 |
| 87-86-5 | Pentachlorophenol | 25.0 | U | 0.010 | 25.0 |
| 85-01-8 | Phenanthrene | 10.0 | U | 0.010 | 10.0 |
| 108-95-2 | Phenol | 10.0 | U | 0.010 | 10.0 |
| 129-00-0 | Pyrene | 10.0 | U | 0.010 | 10.0 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10.0 | U | 0.010 | 10.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 10.0 | U | 0.010 | 10.0 |
| 95-48-7 | o-Cresol | 10.0 | U | 0.010 | 10.0 |

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8/23/04 MK

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204052617
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD03FD1010
Contract:
Lab File ID: B1087
Lab Sample ID: 20405261719
Date Collected: 05/27/04 Time: 1330
Date Received: 05/28/04
Date Extracted: 6/1/04
Date Analyzed: 06/15/04 Time: 2200
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

*Number TICs Found : 0*

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | No tics detected | | | |

8/23/04
MS

FORM I SV-TIC

1B

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No

SAS No: SDG No 204052617

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level (low/med)

% Moisture: decanted (Y/N)

GC Column: DB-5MS-30M ID 25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH

*CONCENTRATION UNITS: ug/L*

Sample ID SHSWDEB1010

Contract:

Lab File ID 2040615P/B1086

Lab Sample ID 20405261720

Date Collected 05/27/04 Time: 1455

Date Received 05/28/04

Date Extracted 6/1/04

Date Analyzed 06/15/04 Time: 2218

Dilution Factor 1 Analyst: RLW

Prep Method 3520

Analytical Method OLMO 4.2

Instrument ID: MSSV3

Prep Batch 275024 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 95-95-4 | 2,4,5-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 120-83-2 | 2,4-Dichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 51-28-5 | 2,4-Dinitrophenol | 25.0 | U | 0.010 | 25.0 | UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 91-58-7 | 2-Chloronaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 95-57-8 | 2-Chlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-57-6 | 2-Methylnaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 88-74-4 | 2-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 88-75-5 | 2-Nitrophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10.0 | U | 0.010 | 10.0 | |
| 99-09-2 | 3-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 25.0 | U | 0.010 | 25.0 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10.0 | U | 0.010 | 10.0 | |
| 106-47-8 | 4-Chloroaniline | 10.0 | U | 0.010 | 10.0 | R |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10.0 | U | 0.010 | 10.0 | |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10.0 | U | 0.010 | 10.0 | |
| 83-32-9 | Acenaphthene | 10.0 | U | 0.010 | 10.0 | |
| 208-96-8 | Acenaphthylene | 10.0 | U | 0.010 | 10.0 | |
| 120-12-7 | Anthracene | 10.0 | U | 0.010 | 10.0 | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | U | 0.010 | 10.0 | |
| 50-32-8 | Benzo(a)pyrene | 10.0 | U | 0.010 | 10.0 | |
| 205-99-2 | Benzo(b)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 191-24-2 | Benzo(g,h,i)perylene | 10.0 | U | 0.010 | 10.0 | |
| 207-08-9 | Benzo(k)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10.0 | U | 0.010 | 10.0 | |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 117-81-7 | bis(2-ethylhexyl)phthalate | K 0.0697 | J B | 0.010 | 10.0 | U |

FORM I SV-1

8/23/04
MSW

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204052617
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med)
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWDEB1010
Contract:
Lab File ID: 2040615P/B1088
Lab Sample ID: 20405261720
Date Collected: 05/27/04 Time: 1455
Date Received: 05/28/04
Date Extracted: 6/1/04
Date Analyzed: 06/15/04 Time: 2218
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 275024 Analytical Batch: 275913

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | | MDL | RL |
|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenylether | 10.0 | U | 0.010 | 10.0 |
| 85-68-7 | Butylbenzylphthalate | 10.0 | U | 0.010 | 10.0 |
| 86-74-8 | Carbazole | 10.0 | U | 0.010 | 10.0 |
| 218-01-9 | Chrysene | 10.0 | U | 0.010 | 10.0 |
| 84-74-2 | Di-n-butylphthalate | 10.0 ~~3.55~~ | J B | 0.010 | 10.0 |
| 117-84-0 | Di-n-octylphthalate | 10.0 | U | 0.010 | 10.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 10.0 | U | 0.010 | 10.0 |
| 132-64-9 | Dibenzofuran | 10.0 | U | 0.010 | 10.0 |
| 84-66-2 | Diethylphthalate | 10.0 | U | 0.010 | 10.0 |
| 131-11-3 | Dimethyl-phthalate | 10.0 | U | 0.010 | 10.0 |
| 105-67-9 | 2,4-Dimethylphenol | 10.0 | U | 0.010 | 10.0 |
| 206-44-0 | Fluoranthene | 10.0 | U | 0.010 | 10.0 |
| 86-73-7 | Fluorene | 10.0 | U | 0.010 | 10.0 |
| 118-74-1 | Hexachlorobenzene | 10.0 | U | 0.010 | 10.0 |
| 87-68-3 | Hexachlorobutadiene | 10.0 | U | 0.010 | 10.0 |
| 77-47-4 | Hexachlorocyclopentadiene | 10.0 | U | 0.010 | 10.0 |
| 67-72-1 | Hexachloroethane | 10.0 | U | 0.010 | 10.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10.0 | U | 0.010 | 10.0 |
| 78-59-1 | Isophorone | 10.0 | U | 0.010 | 10.0 |
| 91-20-3 | Naphthalene | 10.0 | U | 0.010 | 10.0 |
| 100-01-6 | 4-Nitroaniline | 25.0 | U | 0.010 | 25.0 |
| 98-95-3 | Nitrobenzene | 10.0 | U | 0.010 | 10.0 |
| 100-02-7 | 4-Nitrophenol | 25.0 | U | 0.010 | 25.0 |
| 87-86-5 | Pentachlorophenol | 25.0 | U | 0.010 | 25.0 |
| 85-01-8 | Phenanthrene | 10.0 | U | 0.010 | 10.0 |
| 108-95-2 | Phenol | 10.0 | U | 0.010 | 10.0 |
| 129-00-0 | Pyrene | 10.0 | U | 0.010 | 10.0 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10.0 | U | 0.010 | 10.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 10.0 | U | 0.010 | 10.0 |
| 95-48-7 | o-Cresol | 10.0 | U | 0.010 | 10.0 |

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8/23/04 MK

1F

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 20405261 7
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (uL)
Injection Volume: 1.0 (uL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKS-NDEB1010
Contract:
Lab File ID: 20406 15P/B1088
Lab Sample ID: 20405261720
Date Collected: 05/27/04 Time: 1455
Date Received: 05/28/04
Date Extracted: 6/1/04
Date Analyzed: 06/15/04 Time: 2218
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: SW-846 8270C
Instrument ID: MSS-3

*Number TICs Found :* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown | 5.56 | 3 | |

6/23/04

MSB

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB1701-30M ID: .53 (mm)

Concentrated Extract Volume: 1000 ( µL )

Soil Aliquot Volume: ( µL )

Injection Volume: 1 ( µL )

GPC Cleanup: (Y/N) N pH:

Prep Batch: 274745 Analytical Batch: 276422

Sample ID SKGW591010

Contract:

SAS No.: SDG No.: 204052617

Lab Sample ID: 20405261701

Date Collected 05/25/04 Time: 0935

Date Received: 05/26/04

Date Extracted: 5/28/04

Date Analyzed: 06/27/04 Time: 2117

Dilution Factor: 1 Analyst: TLS

Prep Method: 3510

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A

Lab File ID: 2040627/SV3021

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 72-54-8 | 4,4'-DDD | 0.100 | U | 0.00010 | 0.100 | |
| 72-55-9 | 4,4'-DDE | 0.100 | U | 0.00010 | 0.100 | UJ |
| 50-29-3 | 4,4'-DDT | 0.100 | U | 0.00010 | 0.100 | |
| 309-00-2 | Aldrin | 0.050 | U | 0.00010 | 0.050 | |
| 12674-11-2 | Aroclor-1016 | 1.00 | U | 0.00010 | 1.00 | |
| 11104-28-2 | Aroclor-1221 | 2.00 | U | 0.00010 | 2.00 | |
| 11141-16-5 | Aroclor-1232 | 1.00 | U | 0.00010 | 1.00 | |
| 53469-21-9 | Aroclor-1242 | 1.00 | U | 0.00010 | 1.00 | |
| 12672-29-6 | Aroclor-1248 | 1.00 | U | 0.00010 | 1.00 | |
| 11097-69-1 | Aroclor-1254 | 1.00 | U | 0.00010 | 1.00 | |
| 11096-82-5 | Aroclor-1260 | 1.00 | U | 0.00010 | 1.00 | |
| 60-57-1 | Dieldrin | 0.100 | U | 0.00010 | 0.100 | |
| 959-98-8 | Endosulfan I | 0.050 | U | 0.00010 | 0.050 | |
| 33213-65-9 | Endosulfan II | 0.100 | U | 0.00010 | 0.100 | |
| 1031-07-8 | Endosulfan sulfate | 0.100 | U | 0.00010 | 0.100 | |
| 72-20-8 | Endrin | 0.100 | U | 0.00010 | 0.100 | |
| 7421-93-4 | Endrin aldehyde | 0.100 | U | 0.00010 | 0.100 | |
| 53494-70-5 | Endrin ketone | 0.100 | U | 0.00010 | 0.100 | |
| 76-44-8 | Heptachlor | 0.050 | U | 0.00010 | 0.050 | |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.00010 | 0.050 | |
| 72-43-5 | Methoxychlor | 0.500 | U | 0.00010 | 0.500 | |
| 8001-35-2 | Toxaphene | 5.00 | U | 0.00010 | 5.00 | |
| 319-84-6 | alpha-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 5103-71-9 | alpha-Chlordane | 0.050 | U | 0.00010 | 0.050 | |
| 319-85-7 | beta-BHC | 0.050 | U | 0.00010 | 0.050 | |
| 319-86-8 | delta-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.00010 | 0.050 | |
| 5103-74-2 | gamma-Chlordane | 0.050 | U | 0.00010 | 0.050 | |

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW501010

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 204052617

Sample wt/vol: 1000 Units mL | Lab Sample ID: 20405261702

Level (low/med): | Date Collected: 05/25/04 | Time: 1010

% Moisture: | decanted: (Y/N) | Date Received: 05/26/04

GC Column: DB1701-30M | ID: .53 (mm) | Date Extracted: 5/23/04

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 06/27/04 | Time: 2146

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method: 3510

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLM0 4.2

Prep Batch: 274745 | Analytical Batch: 276422 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS3A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040627/SV3022

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 72-54-8 | 4,4'-DDD | 0.100 | U | 0.00010 | 0.100 | |
| 72-55-9 | 4,4'-DDE | 0.100 | U | 0.00010 | 0.100 | UJ |
| 50-29-3 | 4,4'-DDT | 0.100 | U | 0.00010 | 0.100 | |
| 309-00-2 | Aldrin | 0.050 | U | 0.00010 | 0.050 | |
| 12674-11-2 | Aroclor-1016 | 1.00 | U | 0.00010 | 1.00 | |
| 11104-28-2 | Aroclor-1221 | 2.00 | U | 0.00010 | 2.00 | |
| 11141-16-5 | Aroclor-1232 | 1.00 | U | 0.00010 | 1.00 | |
| 53469-21-9 | Aroclor-1242 | 1.00 | U | 0.00010 | 1.00 | |
| 12672-29-6 | Aroclor-1248 | 1.00 | U | 0.00010 | 1.00 | |
| 11097-69-1 | Aroclor-1254 | 1.00 | U | 0.00010 | 1.00 | |
| 11096-82-5 | Aroclor-1260 | 1.00 | U | 0.00010 | 1.00 | |
| 60-57-1 | Dieldrin | 0.100 | U | 0.00010 | 0.100 | |
| 959-98-8 | Endosulfan I | 0.050 | U | 0.00010 | 0.050 | |
| 33213-65-9 | Endosulfan II | 0.100 | U | 0.00010 | 0.100 | |
| 1031-07-8 | Endosulfan sulfate | 0.100 | U | 0.00010 | 0.100 | |
| 72-20-8 | Endrin | 0.100 | U | 0.00010 | 0.100 | |
| 7421-93-4 | Endrin aldehyde | 0.100 | U | 0.00010 | 0.100 | |
| 53494-70-5 | Endrin ketone | 0.100 | U | 0.00010 | 0.100 | |
| 76-44-8 | Heptachlor | 0.050 | U | 0.00010 | 0.050 | |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.00010 | 0.050 | |
| 72-43-5 | Methoxychlor | 0.500 | U | 0.00010 | 0.500 | |
| 8001-35-2 | Toxaphene | 5.00 | U | 0.00010 | 5.00 | |
| 319-84-6 | alpha-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 5103-71-9 | alpha-Chlordane | 0.050 | U | 0.00010 | 0.050 | |
| 319-85-7 | beta-BHC | 0.050 | U | 0.00010 | 0.050 | |
| 319-86-8 | delta-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.00010 | 0.050 | |
| 5103-74-2 | gamma-Chlordane | 0.050 | U | 0.00010 | 0.050 | |

8/26/04 [illegible]

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB1701-30M ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 274745 Analytical Batch: 276422

Sample ID SKGW62A1010

Contract:

SAS No.: SDG No.: 204052617

Lab Sample ID: 20405261703

Date Collected 05/25/04 Time: 1045

Date Received: 05/26/04

Date Extracted: 5/28/04

Date Analyzed: 06/27/04 Time: 2216

Dilution Factor: 1 Analyst: TLS

Prep Method: 3510

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A

Lab File ID: 2040627/SV3023

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 72-54-8 | 4,4'-DDD | 0.100 | U | 0.00010 | 0.100 | |
| 72-55-9 | 4,4'-DDE | 0.100 | U | 0.00010 | 0.100 | L/J |
| 50-29-3 | 4,4'-DDT | 0.100 | U | 0.00010 | 0.100 | |
| 309-00-2 | Aldrin | 0.050 | U | 0.00010 | 0.050 | |
| 12674-11-2 | Aroclor-1016 | 1.00 | U | 0.00010 | 1.00 | |
| 11104-28-2 | Aroclor-1221 | 2.00 | U | 0.00010 | 2.00 | |
| 11141-16-5 | Aroclor-1232 | 1.00 | U | 0.00010 | 1.00 | |
| 53469-21-9 | Aroclor-1242 | 1.00 | U | 0.00010 | 1.00 | |
| 12672-29-6 | Aroclor-1248 | 1.00 | U | 0.00010 | 1.00 | |
| 11097-69-1 | Aroclor-1254 | 1.00 | U | 0.00010 | 1.00 | |
| 11096-82-5 | Aroclor-1260 | 1.00 | U | 0.00010 | 1.00 | |
| 60-57-1 | Dieldrin | 0.100 | U | 0.00010 | 0.100 | |
| 959-98-8 | Endosulfan I | 0.050 | U | 0.00010 | 0.050 | |
| 33213-65-9 | Endosulfan II | 0.100 | U | 0.00010 | 0.100 | |
| 1031-07-8 | Endosulfan sulfate | 0.100 | U | 0.00010 | 0.100 | |
| 72-20-8 | Endrin | 0.100 | U | 0.00010 | 0.100 | |
| 7421-93-4 | Endrin aldehyde | 0.100 | U | 0.00010 | 0.100 | |
| 53494-70-5 | Endrin ketone | 0.100 | U | 0.00010 | 0.100 | |
| 76-44-8 | Heptachlor | 0.050 | U | 0.00010 | 0.050 | |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.00010 | 0.050 | |
| 72-43-5 | Methoxychlor | 0.500 | U | 0.00010 | 0.500 | |
| 8001-35-2 | Toxaphene | 5.00 | U | 0.00010 | 5.00 | |
| 319-84-6 | alpha-BHC | 0.050 | U | 0.00010 | 0.050 | L/J |
| 5103-71-9 | alpha-Chlordane | 0.050 | U | 0.00010 | 0.050 | |
| 319-85-7 | beta-BHC | 0.050 | U | 0.00010 | 0.050 | |
| 319-86-8 | delta-BHC | 0.050 | U | 0.00010 | 0.050 | L/J |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.00010 | 0.050 | |
| 5103-74-2 | gamma-Chlordane | 0.050 | U | 0.00010 | 0.050 | |

8/26/04 MSL

FORM I ORG-1

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW641010

Lab Code: LA024 | Case No: | Contract:

Matrix: Water | SAS No.: | SDG No.: 204052617

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20405261704

Level: (low/med) | Date Collected: 05/25/04 | Time: 1125

% Moisture: | decanted: (Y/N) | Date Received: 05/26/04

GC Column: DB1701-30M | ID: .53 (mm) | Date Extracted: 5/28/04

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 06/27/04 | Time: 2245

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method: 3510

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Prep Batch: 274745 | Analytical Batch: 276422 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS3A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040627/SV3024

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 72-54-8 | 4,4'-DDD | 0.100 | U | 0.00010 | 0.100 | |
| 72-55-9 | 4,4'-DDE | 0.100 | U | 0.00010 | 0.100 | UJ |
| 50-29-3 | 4,4'-DDT | 0.100 | U | 0.00010 | 0.100 | |
| 309-00-2 | Aldrin | 0.050 | U | 0.00010 | 0.050 | |
| 12674-11-2 | Aroclor-1016 | 1.00 | U | 0.00010 | 1.00 | |
| 11104-28-2 | Aroclor-1221 | 2.00 | U | 0.00010 | 2.00 | |
| 11141-16-5 | Aroclor-1232 | 1.00 | U | 0.00010 | 1.00 | |
| 53469-21-9 | Aroclor-1242 | 1.00 | U | 0.00010 | 1.00 | |
| 12672-29-6 | Aroclor-1248 | 1.00 | U | 0.00010 | 1.00 | |
| 11097-69-1 | Aroclor-1254 | 1.00 | U | 0.00010 | 1.00 | |
| 11096-82-5 | Aroclor-1260 | 1.00 | U | 0.00010 | 1.00 | |
| 60-57-1 | Dieldrin | 0.100 | U | 0.00010 | 0.100 | |
| 959-98-8 | Endosulfan I | 0.050 | U | 0.00010 | 0.050 | |
| 33213-65-9 | Endosulfan II | 0.100 | U | 0.00010 | 0.100 | |
| 1031-07-8 | Endosulfan sulfate | 0.100 | U | 0.00010 | 0.100 | |
| 72-20-8 | Endrin | 0.100 | U | 0.00010 | 0.100 | |
| 7421-93-4 | Endrin aldehyde | 0.100 | U | 0.00010 | 0.100 | |
| 53494-70-5 | Endrin ketone | 0.100 | U | 0.00010 | 0.100 | |
| 76-44-8 | Heptachlor | 0.050 | U | 0.00010 | 0.050 | |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.00010 | 0.050 | |
| 72-43-5 | Methoxychlor | 0.500 | U | 0.00010 | 0.500 | |
| 8001-35-2 | Toxaphene | 5.00 | U | 0.00010 | 5.00 | |
| 319-84-6 | alpha-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 5103-71-9 | alpha-Chlordane | 0.050 | U | 0.00010 | 0.050 | |
| 319-85-7 | beta-BHC | 0.050 | U | 0.00010 | 0.050 | |
| 319-86-8 | delta-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.00010 | 0.050 | |
| 5103-74-2 | gamma-Chlordane | 0.050 | U | 0.00010 | 0.050 | |

8/26/04 MSR

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB1701-30M ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 274745 Analytical Batch: 276422

Sample ID SKGWEB1010

Contract:

SAS No.: SDG No.: 204052617

Lab Sample ID: 20405261705

Date Collected 05/25/04 Time: 1440

Date Received: 05/26/04

Date Extracted: 5/28/04

Date Analyzed: 06/27/04 Time: 2315

Dilution Factor: 1 Analyst: TLS

Prep Method: 3510

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A

Lab File ID: 2040627/SV3025

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 72-54-8 | 4,4'-DDD | 0.100 | U | 0.00010 | 0.100 | |
| 72-55-9 | 4,4'-DDE | 0.100 | U | 0.00010 | 0.100 | UJ |
| 50-29-3 | 4,4'-DDT | 0.100 | U | 0.00010 | 0.100 | |
| 309-00-2 | Aldrin | 0.050 | U | 0.00010 | 0.050 | |
| 12674-11-2 | Aroclor-1016 | 1.00 | U | 0.00010 | 1.00 | |
| 11104-28-2 | Aroclor-1221 | 2.00 | U | 0.00010 | 2.00 | |
| 11141-16-5 | Aroclor-1232 | 1.00 | U | 0.00010 | 1.00 | |
| 53469-21-9 | Aroclor-1242 | 1.00 | U | 0.00010 | 1.00 | |
| 12672-29-6 | Aroclor-1248 | 1.00 | U | 0.00010 | 1.00 | |
| 11097-69-1 | Aroclor-1254 | 1.00 | U | 0.00010 | 1.00 | |
| 11096-82-5 | Aroclor-1260 | 1.00 | U | 0.00010 | 1.00 | |
| 60-57-1 | Dieldrin | 0.100 | U | 0.00010 | 0.100 | |
| 959-98-8 | Endosulfan I | 0.050 | U | 0.00010 | 0.050 | |
| 33213-65-9 | Endosulfan II | 0.100 | U | 0.00010 | 0.100 | |
| 1031-07-8 | Endosulfan sulfate | 0.100 | U | 0.00010 | 0.100 | |
| 72-20-8 | Endrin | 0.100 | U | 0.00010 | 0.100 | |
| 7421-93-4 | Endrin aldehyde | 0.100 | U | 0.00010 | 0.100 | |
| 53494-70-5 | Endrin ketone | 0.100 | U | 0.00010 | 0.100 | |
| 76-44-8 | Heptachlor | 0.050 | U | 0.00010 | 0.050 | |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.00010 | 0.050 | |
| 72-43-5 | Methoxychlor | 0.500 | U | 0.00010 | 0.500 | |
| 8001-35-2 | Toxaphene | 5.00 | U | 0.00010 | 5.00 | |
| 319-84-6 | alpha-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 5103-71-9 | alpha-Chlordane | 0.050 | U | 0.00010 | 0.050 | |
| 319-85-7 | beta-BHC | 0.050 | U | 0.00010 | 0.050 | |
| 319-86-8 | delta-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.00010 | 0.050 | |
| 5103-74-2 | gamma-Chlordane | 0.050 | U | 0.00010 | 0.050 | |

5/26/04 MPK

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSWD031010

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No. | SDG No.: 204052617

Sample wt/vol: 1000 Units mL | Lab Sample ID: 20405261715

Level: (low/med) | Date Collected: 05/27/04 | Time: 1310

% Moisture: decanted (Y/N) | Date Received: 05/28/04

GC Column: DB1701-30M ID: .53 (mm) | Date Extracted: 5/28/04

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 06/27/04 | Time: 2344

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: TLS

Injection Volume: 1 (µL) | Prep Method: 3510

GPC Cleanup: (Y/N) N pH: | Analytical Method: OLMO 4.2

Prep Batch: 274745 | Analytical Batch: 276422 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS3A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040627/SV3026

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 72-54-8 | 4,4'-DDD | 0.100 | U | 0.00010 | 0.100 | |
| 72-55-9 | 4,4'-DDE | 0.100 | U | 0.00010 | 0.100 | UJ |
| 50-29-3 | 4,4'-DDT | 0.100 | U | 0.00010 | 0.100 | |
| 309-00-2 | Aldrin | 0.050 | U | 0.00010 | 0.050 | |
| 12674-11-2 | Aroclor-1016 | 1.00 | U | 0.00010 | 1.00 | |
| 11104-28-2 | Aroclor-1221 | 2.00 | U | 0.00010 | 2.00 | |
| 11141-16-5 | Aroclor-1232 | 1.00 | U | 0.00010 | 1.00 | |
| 53469-21-9 | Aroclor-1242 | 1.00 | U | 0.00010 | 1.00 | |
| 12672-29-6 | Aroclor-1248 | 1.00 | U | 0.00010 | 1.00 | |
| 11097-69-1 | Aroclor-1254 | 1.00 | U | 0.00010 | 1.00 | |
| 11096-82-5 | Aroclor-1260 | 1.00 | U | 0.00010 | 1.00 | |
| 60-57-1 | Dieldrin | 0.100 | U | 0.00010 | 0.100 | |
| 959-98-8 | Endosulfan I | 0.050 | U | 0.00010 | 0.050 | |
| 33213-65-9 | Endosulfan II | 0.100 | U | 0.00010 | 0.100 | |
| 1031-07-8 | Endosulfan sulfate | 0.100 | U | 0.00010 | 0.100 | |
| 72-20-8 | Endrin | 0.100 | U | 0.00010 | 0.100 | |
| 7421-93-4 | Endrin aldehyde | 0.100 | U | 0.00010 | 0.100 | |
| 53494-70-5 | Endrin ketone | 0.100 | U | 0.00010 | 0.100 | |
| 76-44-8 | Heptachlor | 0.050 | U | 0.00010 | 0.050 | |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.00010 | 0.050 | |
| 72-43-5 | Methoxychlor | 0.500 | U | 0.00010 | 0.500 | |
| 8001-35-2 | Toxaphene | 5.00 | U | 0.00010 | 5.00 | |
| 319-84-6 | alpha-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 5103-71-9 | alpha-Chlordane | 0.050 | U | 0.00010 | 0.050 | |
| 319-85-7 | beta-BHC | 0.050 | U | 0.00010 | 0.050 | |
| 319-86-8 | delta-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.00010 | 0.050 | |
| 5103-74-2 | gamma-Chlordane | 0.050 | U | 0.00010 | 0.050 | |

3/21/04 MK

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB1701-30M ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 274745 Analytical Batch: 276422

*CONCENTRATION UNITS: ug/L*

Sample ID SKSWD03FD1010

Contract:

SAS No.: SDG No.: 204052617

Lab Sample ID: 20405261719

Date Collected 05/27/04 Time: 1330

Date Received: 05/28/04

Date Extracted: 5/28/04

Date Analyzed: 06/28/04 Time: 0113

Dilution Factor: 1 Analyst: TLS

Prep Method: 3510

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A

Lab File ID: 2040627/SV3029

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 72-54-8 | 4,4'-DDD | 0.100 | U | 0.00010 | 0.100 | |
| 72-55-9 | 4,4'-DDE | 0.100 | U | 0.00010 | 0.100 | UJ |
| 50-29-3 | 4,4'-DDT | 0.100 | U | 0.00010 | 0.100 | |
| 309-00-2 | Aldrin | 0.050 | U | 0.00010 | 0.050 | |
| 12674-11-2 | Aroclor-1016 | 1.00 | U | 0.00010 | 1.00 | |
| 11104-28-2 | Aroclor-1221 | 2.00 | U | 0.00010 | 2.00 | |
| 11141-16-5 | Aroclor-1232 | 1.00 | U | 0.00010 | 1.00 | |
| 53469-21-9 | Aroclor-1242 | 1.00 | U | 0.00010 | 1.00 | |
| 12672-29-6 | Aroclor-1248 | 1.00 | U | 0.00010 | 1.00 | |
| 11097-69-1 | Aroclor-1254 | 1.00 | U | 0.00010 | 1.00 | |
| 11096-82-5 | Aroclor-1260 | 1.00 | U | 0.00010 | 1.00 | |
| 60-57-1 | Dieldrin - | 0.100 | U | 0.00010 | 0.100 | |
| 959-98-8 | Endosulfan I | 0.050 | U | 0.00010 | 0.050 | |
| 33213-65-9 | Endosulfan II | 0.100 | U | 0.00010 | 0.100 | |
| 1031-07-8 | Endosulfan sulfate | 0.100 | U | 0.00010 | 0.100 | |
| 72-20-8 | Endrin | 0.100 | U | 0.00010 | 0.100 | |
| 7421-93-4 | Endrin aldehyde | 0.100 | U | 0.00010 | 0.100 | |
| 53494-70-5 | Endrin ketone | 0.100 | U | 0.00010 | 0.100 | |
| 76-44-8 | Heptachlor | 0.050 | U | 0.00010 | 0.050 | |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.00010 | 0.050 | |
| 72-43-5 | Methoxychlor | 0.500 | U | 0.00010 | 0.500 | |
| 8001-35-2 | Toxaphene | 5.00 | U | 0.00010 | 5.00 | |
| 319-84-6 | alpha-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 5103-71-9 | alpha-Chlordane | 0.050 | U | 0.00010 | 0.050 | |
| 319-85-7 | beta-BHC | 0.050 | U | 0.00010 | 0.050 | |
| 319-86-8 | delta-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.00010 | 0.050 | |
| 5103-74-2 | gamma-Chlordane | 0.050 | U | 0.00010 | 0.050 | |

8/22/04 MSR

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: SKSWDEB1010
Lab Code: LA024 Case No.:
Contract:
Matrix: Water
SAS No.: SDG No.: 204052617
Sample wt/vol: 1000 Units: mL
Lab Sample ID: 20405261720
Level (low/med):
Date Collected: 05/27/04 Time: 1455
% Moisture: decanted (Y/N):
Date Received: 05/28/04
GC Column: DB1701-30M ID: .53 (mm)
Date Extracted: 5/25/04
Concentrated Extract Volume: 1000 (µL)
Date Analyzed: 06/28/04 Time: 1044
Soil Aliquot Volume: (µL)
Dilution Factor: 1 Analyst: TLS
Injection Volume: 1 (µL)
Prep Method: 3510
GPC Cleanup: (Y/N) N pH:
Analytical Method: OLMO 4.2
Prep Batch: 274745 Analytical Batch: 276482
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A
CONCENTRATION UNITS: ug/L
Lab File ID: 2040628/SV3005

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 72-54-8 | 4,4'-DDD | 0.100 | U | 0.00010 | 0.100 | |
| 72-55-9 | 4,4'-DDE | 0.100 | U | 0.00010 | 0.100 | UJ |
| 50-29-3 | 4,4'-DDT | 0.100 | U | 0.00010 | 0.100 | |
| 309-00-2 | Aldrin | 0.050 | U | 0.00010 | 0.050 | |
| 12674-11-2 | Aroclor-1016 | 1.00 | U | 0.00010 | 1.00 | |
| 11104-28-2 | Aroclor-1221 | 2.00 | U | 0.00010 | 2.00 | |
| 11141-16-5 | Aroclor-1232 | 1.00 | U | 0.00010 | 1.00 | |
| 53469-21-9 | Aroclor-1242 | 1.00 | U | 0.00010 | 1.00 | |
| 12672-29-6 | Aroclor-1248 | 1.00 | U | 0.00010 | 1.00 | |
| 11097-69-1 | Aroclor-1254 | 1.00 | U | 0.00010 | 1.00 | |
| 11096-82-5 | Aroclor-1260 | 1.00 | U | 0.00010 | 1.00 | |
| 60-57-1 | Dieldrin | 0.100 | U | 0.00010 | 0.100 | |
| 959-98-8 | Endosulfan I | 0.050 | U | 0.00010 | 0.050 | |
| 33213-65-9 | Endosulfan II | 0.100 | U | 0.00010 | 0.100 | |
| 1031-07-8 | Endosulfan sulfate | 0.100 | U | 0.00010 | 0.100 | |
| 72-20-8 | Endrin | 0.100 | U | 0.00010 | 0.100 | |
| 7421-93-4 | Endrin aldehyde | 0.100 | U | 0.00010 | 0.100 | |
| 53494-70-5 | Endrin ketone | 0.100 | U | 0.00010 | 0.100 | |
| 76-44-8 | Heptachlor | 0.050 | U | 0.00010 | 0.050 | |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.00010 | 0.050 | |
| 72-43-5 | Methoxychlor | 0.500 | U | 0.00010 | 0.500 | |
| 8001-35-2 | Toxaphene | 5.00 | U | 0.00010 | 5.00 | |
| 319-84-6 | alpha-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 5103-71-9 | alpha-Chlordane | 0.050 | U | 0.00010 | 0.050 | |
| 319-85-7 | beta-BHC | 0.050 | U | 0.00010 | 0.050 | |
| 319-86-8 | delta-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.00010 | 0.050 | |
| 5103-74-2 | gamma-Chlordane | 0.050 | U | 0.00010 | 0.050 | |

8/26/04 MM

FORM ORG-1

U.S. EPA - CLP
COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

SOW No.:

| *EPA Sample No.* | *Lab Sample ID.* |
|---|---|
| SKGW591010 | 20405261701 |
| SKGW601010 | 20405261702 |
| SKGW62A1010 | 20405261703 |
| SKGW641010 | 20405261704 |
| SKGWEB1010 | 20405261705 |
| SKGW591010 (DISS) | 20405261706 |
| SKGW601010 (DISS) | 20405261707 |
| SKGW62A1010 (DISS) | 20405261708 |
| SKGW641010 (DISS) | 20405261709 |
| SKGWEB1010 (DISS) | 20405261710 |
| SKSWD031010 | 20405261715 |
| SKSWD03MS1010 | 20405261716 |
| SKSWD03DUP1010 | 20405261718 |
| SKSWD03FD1010 | 20405261719 |
| SKSWDEB1010 | 20405261720 |

| | | |
|---|---|---|
| Were ICP interelement corrections applied ? | Yes / No | YES |
| Were ICP background corrections applied ? | Yes / No | YES |
| If yes-were raw data generated before application of background corrections ? | Yes / No | NO |

Comments:

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 this data contained in this hardcopy data package and in the computer readable data submitted on the diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mark Peterman Name: Mark Peterman

Date:: 7/9/04 Title: Metals Supervisor

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

**Lab Name:** GCAL Contract:

**Lab Code:** LA024 Case No.: SAS No.: SDG No.: 204052617

**SOW No.:**

| *EPA Sample No.* | *Lab Sample ID.* |
|---|---|
| SKSWD031010 (DISS) | 20405261722 |
| SKSWD03MS1010 (DISS) | 20405261723 |
| SKSWD03DUP1010 (DISS) | 20405261724 |
| SKSWD03FD1010 (DISS) | 20405261725 |
| SKSWDEB1010 (DISS) | 20405261726 |

| | | |
|---|---|---|
| Were ICP interelement corrections applied ? | Yes / No | YES |
| Were ICP background corrections applied ? | Yes / No | YES |
| If yes-were raw data generated before application of background corrections ? | Yes / No | NO |

**Comments:**

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 in the computer readable data submitted on the diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mark Peterman Name: Mark Peterman

Date: 7/9/04 Title: Metals Supervisor

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW591010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261701

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 58.4 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | B | | P | |
| 7440-43-9 | Cadmium | 0.3 | U | | P | |
| 7440-47-3 | Chromium | 3.7 | B | | P | |
| 7440-50-8 | Copper | 4.1 | B | | P | |
| 7439-89-6 | Iron | 2710 | | | P | |
| 7439-92-1 | Lead | 4.7 | | | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 6.3 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-66-6 | Zinc | 10.6 | B | | P | |
| 57-12-5 | Cyanide | 0.6 | B | | AS | |

9/1/04
MSC

Color Before: LT.YELLOW Clarity Before: CLEAR Texture:

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW601010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261702

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 8.2 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 88.1 | B | | P | |
| 7440-41-7 | Beryllium | 1.3 | B | | P | |
| 7440-43-9 | Cadmium | 1.2 | B | | P | |
| 7440-47-3 | Chromium | 31.6 | | | P | |
| 7440-50-8 | Copper | 26.9 | | | P | |
| 7439-89-6 | Iron | 41800 | | | P | |
| 7439-92-1 | Lead | 26.9 | | | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 37.8 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-66-6 | Zinc | 97.3 | | | P | |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

9/1/04
MK

Color Before: LT.BROWN Clarity Before: CLEAR Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW62A1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261703

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 8.0 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 226 | | | P | |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 0.3 | U | | P | |
| 7440-47-3 | Chromium | 10.7 | | | P | |
| 7440-50-8 | Copper | 8.8 | B | | P | |
| 7439-89-6 | Iron | 9710 | | | P | |
| 7439-92-1 | Lead | 12.0 | | | P | I |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 13.1 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-66-6 | Zinc | 34.7 | | | P | |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

9/11/04 msL

Color Before: DK.BROWN Clarity Before: CLEAR Texture:

Color After: DK.BROWN Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN ILM04.1

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW641010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix ( soil / water ) Water Lab Sample ID 204052617.04

Level: ( low / med ) Date Received 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 4.8 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 36.6 | B | | P | |
| 7440-41-7 | Beryllium | 0.5 | B | | P | |
| 7440-43-9 | Cadmium | 0.7 | B | | P | |
| 7440-47-3 | Chromium | 2.8 | B | | P | |
| 7440-50-8 | Copper | 7.4 | B | | P | |
| 7439-89-6 | Iron | 8940 | | | P | |
| 7439-92-1 | Lead | 6.2 | | | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 20.3 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-66-6 | Zinc | 19.1 | B | | P | |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

9/1/04
MSB

Color Before: LT.YELLOW Clarity Before CLEAR Texture:

Color After: LT.YELLOW Clarity After CLEAR Artifacts:

Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWEB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261705

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | U | | P |
| 7440-38-2 | Arsenic | 5.4 | U | N | P |
| 7440-39-3 | Barium | 0.3 | U | | P |
| 7440-41-7 | Beryllium | 0.2 | U | | P |
| 7440-43-9 | Cadmium | 0.3 | U | | P |
| 7440-47-3 | Chromium | 1.5 | U | | P |
| 7440-50-8 | Copper | 1.2 | U | | P |
| 7439-89-6 | Iron | 9.1 | U | | P |
| 7439-92-1 | Lead | 2.4 | U | | P |
| 7439-97-6 | Mercury | 0.1 | U | | AV |
| 7440-02-0 | Nickel | 1.1 | U | | P |
| 7782-49-2 | Selenium | 4.4 | U | N | P |
| 7440-22-4 | Silver | 0.9 | U | | P |
| 7440-28-0 | Thallium | 6.3 | U | | P |
| 7440-66-6 | Zinc | 7.0 | B | | P |
| 57-12-5 | Cyanide | 0.9 | B | | AS |

UJ

9/1/04
MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW591010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261706

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 23.2 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.3 | U | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 31.0 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.2 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | R |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-66-6 | Zinc | 0.7 | U | | P | |

9/1/04
MK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN ILM04.1

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW601010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261707

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 37.0 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | B | | P | |
| 7440-43-9 | Cadmium | 0.6 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 26.4 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.1 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | R |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-66-6 | Zinc | 0.7 | U | | P | |

9/11/04
DSK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW62A1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261708

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 4.7 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | | | P | |
| 7440-39-3 | Barium | 117 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | | | P | |
| 7440-43-9 | Cadmium | 0.3 | | | P | |
| 7440-47-3 | Chromium | 2.9 | B | | P | |
| 7440-50-8 | Copper | 1.2 | | | P | |
| 7439-89-6 | Iron | 27.0 | B | | P | |
| 7439-92-1 | Lead | 2.4 | | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.2 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | R |
| 7440-22-4 | Silver | 0.9 | | | P | |
| 7440-28-0 | Thallium | 6.3 | | | P | UJ |
| 7440-66-6 | Zinc | 3.7 | B | | P | |

7/1/04
MR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW641010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261709

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 6.9 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 29.3 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.3 | U | | P | |
| 7440-47-3 | Chromium | 3.5 | B | | P | |
| 7440-50-8 | Copper | 2.2 | B | | P | |
| 7439-89-6 | Iron | 35.5 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 10.7 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | R |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-66-6 | Zinc | 0.7 | U | | P | |

9/1/04
PSL

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWEB1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No. SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261710

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | J | | P | |
| 7440-38-2 | Arsenic | 5.4 | J | | P | |
| 7440-39-3 | Barium | 0.3 | J | | P | |
| 7440-41-7 | Beryllium | 0.2 | J | | P | |
| 7440-43-9 | Cadmium | 0.4 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | J | | P | |
| 7440-50-8 | Copper | 1.2 | J | | P | |
| 7439-89-6 | Iron | 9.* | J | | P | |
| 7439-92-1 | Lead | 2.4 | J | | P | |
| 7439-97-6 | Mercury | 0.* | J | | AV | |
| 7440-02-0 | Nickel | 1.1 | J | | P | |
| 7782-49-2 | Selenium | 4.4 | J | N | P | R |
| 7440-22-4 | Silver | 0.5 | J | | P | |
| 7440-28-0 | Thallium | 6.3 | J | | P | UJ |
| 7440-66-6 | Zinc | 0.* | J | | P | |

9/1/04
MJL

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD031010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261715

Level: ( low / med ) Date Received: 05/28/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | U | | P |
| 7440-38-2 | Arsenic | 5.4 | U | N | P |
| 7440-39-3 | Barium | 33.1 | B | | P |
| 7440-41-7 | Beryllium | 0.2 | U | | P |
| 7440-43-9 | Cadmium | 0.3 | U | | P |
| 7440-47-3 | Chromium | 1.5 | U | | P |
| 7440-50-8 | Copper | 1.2 | U | | P |
| 7439-89-6 | Iron | 258 | | | P |
| 7439-92-1 | Lead | 2.4 | U | | P |
| 7439-97-6 | Mercury | 0.1 | U | | AV |
| 7440-02-0 | Nickel | 1.2 | B | | P |
| 7782-49-2 | Selenium | 4.4 | U | N | P |
| 7440-22-4 | Silver | 0.9 | U | | P |
| 7440-28-0 | Thallium | 6.3 | U | | P |
| 7440-66-6 | Zinc | 1.3 | B | | P |
| 57-12-5 | Cyanide | 0.8 | B | | AS |

UI

9/1/04
MW

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03DUP1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix ( soil / water ) Water Lab Sample ID: 20405261718

Level: ( low / med ) Date Received: 05/28/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | U | | P |
| 7440-38-2 | Arsenic | 5.4 | J | N | P |
| 7440-39-3 | Barium | 34.2 | B | | P |
| 7440-41-7 | Beryllium | 0.2 | U | | P |
| 7440-43-9 | Cadmium | 0.3 | U | | P |
| 7440-47-3 | Chromium | 1.5 | U | | P |
| 7440-50-8 | Copper | 1.2 | U | | P |
| 7439-89-6 | Iron | 264 | | | P |
| 7439-92-1 | Lead | 2.4 | | | P |
| 7439-97-6 | Mercury | 0.1 | U | | AV |
| 7440-02-0 | Nickel | 1.1 | U | | P |
| 7782-49-2 | Selenium | 4.4 | U | N | P |
| 7440-22-4 | Silver | 0.9 | U | | P |
| 7440-28-0 | Thallium | 6.3 | U | | P |
| 7440-66-6 | Zinc | 0.8 | B | | P |
| 57-12-5 | Cyanide | 0.5 | B | | AS |

UJ

9/1/04
MM

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

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U.S EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261719

Level: ( low / med ) Date Received: 05/28/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 6.9 | B | | P |
| 7440-38-2 | Arsenic | 5.4 | U | N | P |
| 7440-39-3 | Barium | 34.3 | B | | P |
| 7440-41-7 | Beryllium | 0.2 | U | | P |
| 7440-43-9 | Cadmium | 0.3 | B | | P |
| 7440-47-3 | Chromium | 1.5 | U | | P |
| 7440-50-8 | Copper | 1.2 | U | | P |
| 7439-89-6 | Iron | 200 | | | P |
| 7439-92-1 | Lead | 2.4 | U | | P |
| 7439-97-6 | Mercury | 0.1 | U | | AV |
| 7440-02-0 | Nickel | 1.1 | U | | P |
| 7782-49-2 | Selenium | 4.4 | U | N | P |
| 7440-22-4 | Silver | 0.9 | U | | P |
| 7440-28-0 | Thallium | 6.3 | U | | P |
| 7440-66-6 | Zinc | 2.4 | B | | P |
| 57-12-5 | Cyanide | 1.1 | B | | AS |

UJ

9/1/04
MA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWDEB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No: SAS No: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261720

Level: ( low / med ) Date Received: 05/28/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | U | | P |
| 7440-38-2 | Arsenic | 5.4 | U | N | P |
| 7440-39-3 | Barium | 0.3 | U | | P |
| 7440-41-7 | Beryllium | 0.2 | U | | P |
| 7440-43-9 | Cadmium | 0.3 | B | | P |
| 7440-47-3 | Chromium | 1.5 | U | | P |
| 7440-50-8 | Copper | 5.4 | B | | P |
| 7439-89-6 | Iron | 9.1 | U | | P |
| 7439-92-1 | Lead | 2.4 | U | | P |
| 7439-97-6 | Mercury | 0.1 | U | | AV |
| 7440-02-0 | Nickel | [illegible] | U | | P |
| 7782-49-2 | Selenium | 4.4 | U | N | P |
| 7440-22-4 | Silver | 0.9 | U | | P |
| 7440-28-0 | Thallium | 6.3 | U | | P |
| 7440-66-6 | Zinc | 16.8 | B | | P |
| 57-12-5 | Cyanide | 0.9 | B | | AS |

UJ

9/1/04
mi

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD031010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261722

Level: ( low / med ) Date Received: 05/28/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | U | | P |
| 7440-38-2 | Arsenic | 5.4 | U | | P |
| 7440-39-3 | Barium | 32.7 | B | | P |
| 7440-41-7 | Beryllium | 0.2 | U | | P |
| 7440-43-9 | Cadmium | 0.3 | U | | P |
| 7440-47-3 | Chromium | 1.5 | U | | P |
| 7440-50-8 | Copper | 1.2 | U | | P |
| 7439-89-6 | Iron | 22.2 | B | | P |
| 7439-92-1 | Lead | 2.4 | U | | P |
| 7439-97-6 | Mercury | 0.1 | U | | AV |
| 7440-02-0 | Nickel | 1.2 | B | | P |
| 7782-49-2 | Selenium | 4.4 | U | N | P |
| 7440-22-4 | Silver | 0.9 | U | | P |
| 7440-28-0 | Thallium | 6.3 | U | | P |
| 7440-66-6 | Zinc | 0.7 | U | | P |

~~UJ~~ R

9/1/04
M-L

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03DUP1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No: SAS No: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261724

Level: ( low / med ) Date Received: 05/28/04

% Solids:

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

| CAS No | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | U | | P |
| 7440-38-2 | Arsenic | 5.4 | U | | P |
| 7440-39-3 | Barium | 33.6 | B | | P |
| 7440-41-7 | Beryllium | 0.2 | U | | P |
| 7440-43-9 | Cadmium | 0.4 | B | | P |
| 7440-47-3 | Chromium | 1.5 | U | | P |
| 7440-50-8 | Copper | 1.2 | U | | P |
| 7439-89-6 | Iron | 19.7 | B | | P |
| 7439-92-1 | Lead | 2.4 | U | | P |
| 7439-97-6 | Mercury | 0.1 | U | | AV |
| 7440-02-0 | Nickel | 1.2 | B | | P |
| 7782-49-2 | Selenium | 4.4 | U | N | P |
| 7440-22-4 | Silver | 0.9 | U | | P |
| 7440-28-0 | Thallium | 6.3 | U | | P |
| 7440-66-6 | Zinc | 0.7 | U | | P |

R

UJ

9/1/04
MR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03FD1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261725

Level: ( low / med ) Date Received: 05/28/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 6.5 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 30.3 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.3 | U | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 26.4 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.1 | U | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | R |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-66-6 | Zinc | 3.8 | B | | P | |

9/1/04
MN

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWDEB1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix ( soil / water ) Water Lab Sample ID: 20405261726

Level: ( low / med ) Date Received: 05/28/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 0.3 | U | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.4 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 109 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.4 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | R |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-66-6 | Zinc | 0.9 | B | | P | |

3/1/04

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN ILM04.1

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GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

# CHAIN OF CUSTODY RECORD

| Lab use only | | | |
|---|---|---|---|
| Earth Tech | 4342 | 204052617 | 6/10/04 |
| Client Name | Client # | Workorder # | Due Date |

**Report to:**
Client: Earth Tech
Address: 200 Vine St
Wilder Ky 41076
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

**Bill to:**
Client:
Address: Same
Contact:
Phone:
Fax:

P.O. Number: 54280
Project Name/Number: Skinner Landfill-2 Qtr 2004
Sampled By: Pat Higgins / Pat Hambree

Analytical Requests & Method

Lab use only:
Custody Seal
used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 6°

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | Preservatives | No Containers | Volatiles | Semi volatiles | Pesticides | PCBs | Total Metals | Dissolved Metals | Cyanide | | | | Diss | Remarks: | Lab ID 5126 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W | 5/25/04 | 0935 | | X | SKGW 59 1010 ✓ | HCL | 3 | X | | | | | | | | | | DMM 6 | Refer to Table | -1 |
| ↓ | ↓ | 1010 | | ↓ | SKGW 60 1010 ✓ | ↓ | ↓ | ↓ | | | | | | | | | | 7 | 7 (TCL) | 2 |
| | | 1045 | | | SKGW 62A 1010 ✓ | | | | | | | | | | | | | 8 | and Table 8 | 3 |
| | | 1115 | | | SKGW 62B 1010 | | | | | | | | | | | | | | (TAL) of the | 11 |
| | | 1125 | | | SKGW 64 1010 ✓ | | | | | | | | | | | | | 9 | final O&M | 4 |
| | | 1150 | | | SKGW 65 1010 | | | | | | | | | | | | | | Plan for the | 12 |
| | | 1440 | | | SKGW EB 1010 | Various | 10 | | X | X | X | X | X | X | | | | -10 | list of | 5 |
| | | - | | | SKGW TB 1010 | HCL | 3 | | | | | | | | | | | | analytes. | 13 |
| ↓ | ↓ | 1550 | | ↓ | SKGW FB 1010 | ↓ | ↓ | ↓ | | | | | | | | | | | | 14 |

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| Pat Higgins | FED EX | 5/25/04 | 1700 |
| FEDEX 8425 8400 1674 | [signature] | 5-26-04 | 930 |
| | | | |

Note: FED EX Airbill #: 8425 8400 1674 0215
3 coolers

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE CLIENT FINAL REPORT CANARY LABORATORY PINK CLIENT

GCAL-36 1/98

000599

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

# CHAIN OF CUSTODY RECORD

Lab use only

| Client Name | Client # | Workorder # | Due Date |
|---|---|---|---|
| Earth Tech | 4342 | 204052617 | 6/10/04 |

**Report to:**
Client: Earth Tech
Address: 200 Vine Street
Wilder, KY 41076
Contact: Pat Higgins
Phone: ~~Pat Higgins~~ 859 442-2300
Fax: 859 442-2311

**Bill to:**
Client:
Address: SAME
Contact:
Phone:
Fax: 859 442-2311

P.O. Number: 54280.01
Project Name/Number: Shinner Landfill - 2nd Qtr. 2004
Sampled By: Pat Higgins / Ryan Hembree

**Analytical Requests & Method**

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | Preservatives | No Containers | Volatiles | Semi-volatiles | Pesticides | PCB's | total metals | Dissolved metals | Cyanide | | | CSS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W | 5/24/04 | 0935 | | X | SKGW59 1010 | Various | 7 | | X | X | X | X | X | X | | | 6 |
| W | 5/25/04 | 1010 | | X | SK GW60 1010 | Various | 6 P.H. | | X | X | X | X | X | X | | | 7 |

**Lab use only:**
Custody Seal
used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 6°

Lab ID

**Remarks:**
GW 60 has low sample vol. 1 RB jar, svoc jar ½-¾ full.

Refer to Table 7 (TCL) and Table 8 (TAL) of the Final O&M Plan for the list of analytes

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| Pat Higgins | FED EX | 5/25/04 | 1700 |
| FEDEX 8425 84001674 | M. [illegible] | 5/26/04 | 930 |
| | | | |

Note: FED EX Airbill number: 8425 8400 1674 0215

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix: [illegible] ater, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A[illegible] [illegible]

We cannot accept verbal changes. Please fax written change[illegible] (225) 767-5717

009000

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Phone 225.769.4900 • Fax 225.767.5717

# CHAIN OF CUSTODY RECORD

| Lab use only | | | |
|---|---|---|---|
| Earth Tech | 4342 | 7040 52617 | 6/10/04 |
| Client Name | Client # | Workorder # | Due Date |

**Report to:**
Client: Earth Tech
Address: 200 Vine St
Wilder Ky 41076
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

**Bill to:**
Client:
Address:
Contact: Same
Phone:
Fax:

P.O. Number: 54280
Project Name/Number: Skinner Landfill - 2 Qtr. 2004
Sampled By: Pat Higgins / Ryan Hambree

Analytical Requests & Method

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | Preservatives | No Containers | Volatiles | Semi Volatiles | Pesticides | PCBs | Total Metals | Dissolved Metals | Cyanide | | | diss | Remarks: | Lab ID 5126 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W | 5/25/04 | 1045 | | X | SKGW62A 1010 | Various | 7 | | X | X | X | X | X | X | | | 8 | Refer to | 3 |
| W | 5/25/04 | 1125 | | X | SKGW64 1010 | Various | 7 | | X | X | X | X | X | X | | | 9 | Table 7 (TCL) | 4 |
| | | | | | | | | | | | | | | | | | | and Table 8 | |
| | | | | | | | | | | | | | | | | | | (TAL) of the | |
| | | | | | | | | | | | | | | | | | | Final O&M | |
| | | | | | | | | | | | | | | | | | | Plan for the | |
| | | | | | | | | | | | | | | | | | | list of | |
| | | | | | | | | | | | | | | | | | | analytes | |

Lab use only:
Custody Seal
used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 6°

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| [signature] | Fed Ex | 5-25-04 | 1700 |
| FEDEX 8425 8400 1674 | [signature] | 5-26-04 | 930 |
| | | | |

Note: FED EX Airbill #: 8425 8400 1674 0215
3 coolers total

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

000601

WHITE: CLIENT FINAL REPORT - CANARY LABORATORY - PINK CLIENT

GCAL-06 11/98

# CCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

## CHAIN OF C TODY RECORD

| Lab use only | Client Name | Client # | Workorder # | Due Date |
|---|---|---|---|---|
| | Earth Tech | 4342 | 70405 2417 | 6/14/04 |

**Report to:**
Client: Earth Tech
Address: 200 Vine Street
Wilder, KY 41076
Contact: Pat Higgins
Phone: 859 442-2300
Fax: 859 442-2311

**Bill to:**
Client:
Address:
Contact: Same
Phone:
Fax:

P.O. Number: 5428001
Project Name/Number: Shinner Landfill - 2nd Qtr. 2004
Sampled By: Pat Higgins - Earth Tech

Analytical Requests & Method

Lab use only:
Custody Seal used ☑ yes ☐ no
In tact ☑ yes ☐ no
Temperature °C 3

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | Preservatives | No Containers | Volatiles | Semi volatiles | Pesticides | PCBs | Total Metals | Dissolved Metals | Cyanide | | | DISS | Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W | 5/27/04 | 1310 | | X | SLSWD03 1010 | HCL | 3 | X | X | | | | | | | | 22 | [illegible] |
| ↓ | ↓ | 1330 | | ↓ | SLSWD03 FD 1010 | ↓ | ↓ | ↓ | ~~X~~ | | | | | | | | 25 | [illegible] |
| ↓ | ↓ | 1400 | | ↓ | SLSWD03 MS 1010 | ↓ | ↓ | ↓ | ~~X~~ | | | | | | | | 23 | [illegible] |
| ↓ | ↓ | 1415 | | ↓ | SLSWD03 MSD 1010 | ↓ | ↓ | ↓ | ~~X~~ | | | | | | | | [illegible] | [illegible] |
| ↓ | ↓ | 1455 | | ↓ | SLSWD ED 1010 | Various | 10 | ↓ | X | X | X | X | X | X | | | 26 | [illegible] |
| ↓ | — | — | | ↓ | SLSWD TP 1010 | HCL | 3 | ↓ | | | | | | | | | | [illegible] |

Remarks: Refer to Table 7 (TCL) and Table 8 and 17 (TAL) of The Final O&M Plan for The list of Analytes

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| Pat Higgins | FED EX | 5/27/04 | 1800 |
| Fed EX | [signature] | 5/28/04 | 1010 |
| | | | |

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix: [illegible] water S = soil SD = solid L = liquid SL = sludge o = oil CT = charcoal tube [illegible] bag

We cannot accept verbal changes. Please fax written change (225) 767-5717

000602

GCAL-06 11/98

GCAL

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

# CHAIN OF CUSTODY RECORD

| Lab use only | Client Name | Client # | Workorder # | Due Date |
|---|---|---|---|---|
| | Earth Tech | 4342 | 2040526(7 | 6/14/04 |

**Report to:**
Client: Earth Tech
Address: 200 Vine Street
Wilder, Ky 41076
Contact: Pat Higgins
Phone: 859 442-2300
Fax: 859 442-2311

**Bill to:**
Client:
Address:
Contact: SAME
Phone:
Fax:

P.O. Number: 54280
Project Name/Number: Skinner Landfill 2nd Qtr. 2004
Sampled By: Pat Higgins - Earth Tech

Analytical Requests & Method

Lab use only:
Custody Seal used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 3

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | Preservatives | No Containers | Volatiles | Semi-volatiles | Pesticides | PCB's | Total Metals | Dissolved Metals | Cyanide | | | Diss | Remarks: | Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W | 5/27/04 | 1310 | | X | SKSWD03 1010 | Various | 7 | | X | X | X | X | X | X | | | 22 | Refer to | 15 |
| W | ↓ | 1330 | | X | SKSWD03FD1010 | ↓ | ↓ | | X | X | X | X | X | X | | | 25 | Table 7 (TCL) | 19 |
| | | | | | | | | | | | | | | | | | | and Table 8 | |
| | | | | | | | | | | | | | | | | | | (TAL) of the | |
| | | | | | | | | | | | | | | | | | | Final O&M | |
| | | | | | | | | | | | | | | | | | | Plan for list | |
| | | | | | | | | | | | | | | | | | | of analytes | |

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| Pat Hig | FED EX | 5/27/04 | 1800 |
| FedEx | [signature] | 5/28/04 | 1010 |
| | | | |

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix[1]: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL 06 11/98

000603

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

# CHAIN OF CUSTODY RECORD

Lab use only

| Client Name | Client # | Workorder # | Due Date |
|---|---|---|---|
| Earth Tech | 4342 | 204052607 | 6/14/04 |

**Report to:**
Client: Earth Tech
Address: 200 Vine Street
Wilder, KY 41076
Contact: Pat Higgins
Phone: 859 442-2300
Fax: 859 442-2311

**Bill to:**
Client:
Address: SAME
Contact:
Phone:
Fax:

P.O. Number: 54280.01
Project Name/Number: Shinner Landfill 2nd Qtr. 2004
Sampled By: Pat Higgins - Earth Tech

Analytical Requests & Method

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | Preservatives | No Containers | Volatiles | Semi volatiles | Pesticides | PCBs | total metals | Dissolved metals | Cyanide | | | diss | Remarks: | Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W | 5/27/04 | 1400 | | X | SKSWD03MS 1010 | Various | 7 | | X | X | X | X | X | X | | | 23 | Refer to Table 7 and 17 (TCL) and Table 8 (TAL) of The Final O&M Plan for The list of analytes | 5/28 |
| W | 5/27/04 | 1415 | | X | SKSWD03 MSD 1010 | Various | 7 | | X | X | X | X | X | X | | | 24 | | |

Lab use only:
Custody Seal
used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 3

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| Pat Higgins | FED EX | 5/27/04 | 1800 |
| Fed EX | [signature] | 5/28/04 | 1010 |
| | | | |

Note:

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix: W = [illegible] r S = soil SD = solid L = liquid SL = sludge o = oil CT = charcoal tube A = [illegible]

We cannot accept verbal changes. Please fax written changes to [illegible] 767-5717

000604

# DATA VALIDATION REPORT

# FOR

# SKINNER LANDFILL SITE

**EARTH TECH: PROJECT NUMBER 54280**

**LABORATORY REPORT NUMBER 204061007**

**PROJECT MANAGER: Ron Rolker**

**Date: August 19, 2004**

**Data Validator: Mark Kromis**

# APPENDIX C
# LIST OF ACRONYMS

| | |
|---|---|
| BFB | Bromofluorobenzene |
| CC | Continuing Calibration |
| CCV | Continuing Calibration Verification |
| CCB | Continuing Calibration Blanks |
| CLP | Contract Laboratory Program |
| CRDL | Contract Required Detection Limit |
| DFTPP | Decafluorotriphenylphosphine |
| GC/MS | Gas Chromatograph/Mass Spectrometer |
| IC | Initial Calibration |
| ICB | Initial Calibration Blank |
| IDL | Instrument Detection Limit |
| ICP | Inductively Coupled Plasma |
| ICS | Interference Check Sample |
| ICV | Initial Calibration Verification |
| ILM | Inorganic Analysis Multi-Media Multi-Concentration |
| INDAM | Individual A Mixture |
| INDBM | Individual B Mixture |
| mg/L | milligrams per liter |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| OLC | Organic Analysis Low Concentration |
| OLM | Organic Analysis Multi-Media Multi-Concentration |
| %D | Percent Difference |
| % RSD | Percent Relative Standard Deviation |
| PB | Preparation Blanks |
| QC | Quality Control |
| RF | Response Factor |
| RPD | Relative Percent Difference |
| RRF | Relative Response Factor |
| SDG | Sample Delivery Group |
| SOW | Statement of Work |
| µg/L | micrograms per liter |
| US EPA | United States Environmental Protection Agency |
| VOC | Volatile Organic Compounds |
| VTSR | Validated Time of Sample Receipt |

# DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204061007 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in June 2004, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Group (SDG) 204061007.

| GCAL # | Sample Description |
|---|---|
| 20406100701 | SKSW501010 |
| 20406100702 | SKSW50FD1010 |
| 20406100703 | SKSW50MS1010 |
| 20406100705 | SKSW50DUP1010 |
| 20406100706 | SKSW511010 |
| 20406100707 | SKSW521010 |
| 20406100708 | SKSWEB1010 |
| 20406100710 | SKSW501010 (DISS) |
| 20406100711 | SKSW50FD1010 (DISS) |
| 20406100712 | SKSW50MS1010 (DISS) |
| 20406100713 | SKSW50DUP1010 (DISS) |
| 20406100714 | SKSW511010 (DISS) |
| 20406100715 | SKSW521010 (DISS) |
| 20406100716 | SKSWEB1010 (DISS) |

## INTRODUCTION

Analyses of metals were performed according to Contract Laboratory Program (CLP)-Inorganic Analysis Multi-media Multi-concentration ILM04.1 Statement of Work (SOW). Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.
The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Calibration
   A. Initial Calibration (IC)
   B. Continuing Calibration (CC)
3. Blanks
4. Inductively Coupled Plasma (ICP) Interference Check Sample
5. Laboratory Control Sample (LCS)
6. Duplicate Analysis
7. Spike Sample Analysis
8. ICP Serial Dilution
9. System Performance
10. Documentation
11. Overall Assessment

## 1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples undergoing CLP protocol. Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. CALIBRATION

### A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

### B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

## 3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Preparation Blanks (PB) were analyzed at the appropriate frequencies. No constituents were detected in the ICB, CCB, and PB blanks above the corresponding Contract Required Detection Limit (CRDL) with the exception of Zinc in the CCB's. As per the National Functional Guidelines; sample results greater than the IDL but less than 5 times the amount found in any blank should be qualified as (U). Technically the run should have been terminated or at a minimum the samples should have been re-analyzed for Zinc.

## 4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

## 5. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

## 6. DUPLICATE ANALYSIS

The laboratory used sample SKSW501010 for the duplicate sample. The Relative Percent Difference (RPD) between the sample and duplicate results for the total and dissolved fractions were within the acceptance criteria (<20%) for all target compounds.

## 7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SKSW501010 and SKSW5 1010 (dissolved) for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) with the exception of Arsenic (134%), Selenium (136%) and Thallium (129%) in the total fraction and Arsenic (128%) and Selenium (0%) in the dissolved fraction. As per the National Functional Guidelines: if the percent recovery is greater than 125% qualify detected results for that analyte with "J". If the percent recovery is less than 30% qualify detected results for that analyte with "J" and non-detected results with "R".

## 8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 50 times above the IDL, its serial dilution analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interference's exist due to matrix effects. The serial dilution percent differences were within the acceptance criteria for all target analytes.

## 9. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

## 10. DOCUMENTATION

The documentation appeared accurate and in order.

## 11. OVERALL ASSESSMENT

The percent recoveries for Chromium in the Contract Required Detection Limit (CRDL) standards were 79.1%, 74.1% and 91.8%. The percent recoveries for Lead in the Contract Required Detection Limit (CRDL) standards were 99.2%, 101.9%, and 63.7%. The percent recoveries for Zinc in the Contract Required Detection Limit (CRDL) standards were 90.6%, 68.5%, and 53.6%. The detected Chromium and Zinc results greater than the IDL but less than two times the CRDL were qualified with as estimated with "J" and the non-detected results were qualified with "UJ". The results are acceptable with the validator-added qualifiers.

# DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204061007 SEMIVOLATILE ORGANICS

Validation of the Gas Chromatograph/Mass Spectrometer (GC/MS) semi-volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in June 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. The results were reported by GCAL under SDG 204061007.

| GCAL # | Sample Description |
|---|---|
| 20406100701 | SKSW501010 |
| 20406100702 | SKSW50FD1010 |
| 20406100703 | SKSW50MS1010 |
| 20406100704 | SKSW50MSD1010 |
| 20406100706 | SKSW511010 |
| 20406100707 | SKSW521010 |
| 20406100708 | SKSWEB1010 |

## INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various data qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected because serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the semivolatile data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Internal Standards Performance
8. Compound Identification
9. Constituent Quantitation and Reported Detection Limits
10. System Performance
11. Documentation
12. Overall Assessment

## 1. HOLDING TIMES

All samples were initially extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. GC/MS TUNING

The samples were analyzed on a single GC/MS system, identified as MSSV3. One decafluorotriphenylphosphine (DFTPP) tune was run representing the shift in which the standards and samples were analyzed. The DFTPP tune is acceptable.

## 3. CALIBRATION

### A. Initial Calibration

One IC dated 6/15/04 was analyzed in support of the semivolatile sample analyses. Documentation of the IC was present in the data package, and the Relative Response Factor (RRF), as well as percent % RSD values were accurately reported for all target compounds. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all semi-volatile compounds. The RRF's and the average RRF were within the acceptance criteria specified in the method for all reported analytes with the exception of 4-Chloroaniline. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Diethylphthalate (34.5%). The lowest point of the calibration curve was dropped for Diethylphthalate and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Diethylphthalate were not detected in the associated samples therefore data qualification was not required. The detected results for Di-n-butylphthalate were mitigated do to the presence of Di-n-butylphthalate in the associated method blank.

As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

### B. Continuing Calibration

One CC dated 6/15/04 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC dated 6/15/04 were within the acceptance criteria with the exception of 4-Chloroaniline. The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 6/15/04 were within the acceptance criteria with the exception the %D for 2,4-Dintorphenol. As per the National Functional Guidelines, if the %D exceeds the acceptance criteria qualify detected results for that analyte with "J" and non-detected results for that analyte with "UJ". The 4-Chloroaniline results were previously qualified under Section 3A titled "Initial calibration".

## 4. BLANKS

Two laboratory semivolatile methods blank and one equipment blank were analyzed with this SDG. The results are summarized below.

<u>Method Blank (0610SBLK)</u>

Bis-(2-ethylhexyl) phthalate (131 ppb) and Di-n-butylphthalate (0.529) were detected in method blank extracted on 6/10/04.

Method Blank (0617SBLK)

Bis-(2-ethylhexyl) phthalate (1.59 ppb) was detected in method blank extracted on 6/17/04

Equipment Blank (SKSWEB1010)

Bis-(2-ethylhexyl) phthalate (3.91 ppb) Di-n-butylphthalate (0.672), and Diethylphthalate (1.27 ppb) were detected in the equipment blank collected on 6/10/04. The Bis-(2-ethylhexyl) phthalate and Di-n-butylphthalate result were mitigated by the presence of Bis-(2-ethylhexyl) phthalate and Di-n-butylphthalate in the associated extraction blank. Diethylphthalate was not detected in the associated samples.

## 5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds were recovered within acceptable control limits.

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

Sample SKSW501010 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of the 4-Nitorphenol and Pentachlorophenol. The %RPD between the MS/MSD are within the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD data alone.

## 7. INTERNAL STANDARDS PERFORMANCE

Internal standard areas and retention times were within acceptable limits for the reported semivolatile sample analyses.

## 8. COMPOUND IDENTIFICATION

All reported semivolatile constituents were correctly identified with supporting chromatograms present in the data package.

## 9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for semivolatile constituents with the exception of the results for Bis-(2-ethylhexyl) phthalate in the re-analyzed samples. The data validator re-calculated the constituent quantitations and reported detection limits, then manually made the correction on the Form 1's.

## 10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data submitted for review

## 11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the preparation method off of the CLP Form 1's and the Date Extracted off of the CLP Form 1's and IV's. The data validator manually wrote the preparation method and Date Extracted on the appropriate forms. GCAL also left the "B" qualifier off of the CLP Form 1's for the compound Di-n-butylphthalate therefore the data validator inserted a "B" qualifier in the "Q" column of the CLP Form 1's. The "B" qualifier indicates that the analyte was detected in the associated method blank.

## 12. OVERALL ASSESSMENT

It should be noted that the laboratory re-extracted the samples and extraction blank on 6/17/04 due to the high concentration of Bis-(2-ethylhexyl) phthalate (131 ppb) that was detected in original method blank extracted on 6/10/04. The concentration of Bis-(2-ethylhexyl) phthalate in the re-extracted blank was 1.59 ppb which was approximately that same concentration of Bis-(2-ethylhexyl) phthalate that was detected in some of the samples. The samples were re-extracted outside of the recommended holding time therefore the data validator suggest using the results from the initial extraction. The results are acceptable with the validator-added qualifiers.

## DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204061007 VOLATILE ORGANIC

Validation of the GC/MS volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in June 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999). as appropriate. The results were reported by GCAL under SDG 204061007.

| GCAL # | Sample Description |
|---|---|
| 20406100701 | SKSW501010 |
| 20406100702 | SKSW50FD1010 |
| 20406100703 | SKSW50MS1010 |
| 20406100704 | SKSW50MSD1010 |
| 20406100706 | SKSW511010 |
| 20406100707 | SKSW521010 |
| 20406100708 | SKSWEB1010 |
| 20406100709 | SKSWTB1010 |

## INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Low Concentration OLC02.0 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The volatiles data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Laboratory Control Sample
8. Internal Standards Performance
9. Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. System Performance
12. Documentation
13. Overall Assessment

## 1. HOLDING TIMES

All samples for Volatile Organic Compounds (VOC) analyses were analyzed within the 14-day technical holding time and the 10-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. GC/MS TUNING

The samples were analyzed on one GC/MS system, identified as MSV1. Two bromofluorobenzene (BFB) tunes were run. The BFB tunes are acceptable.

## 3. CALIBRATION

### A. Initial Calibration

Two IC's dated 6/16/04 and 6/17/04 were analyzed on instrument MSV1 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards is present in the data package, and RRF's as well as %RSD values were accurately reported. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all volatile compounds. The %RSD's were within the acceptance criteria specified in the method for all target analytes.

The RRF's and the average RRF for the IC dated 6/16/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone, 2-Butanone, and 2-Hexanone. The %RSD's were within the acceptance criteria specified in the method for all target analytes with exception of Acetone. As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

The RRF's and the average RRF for the IC dated 6/17/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone and 2-Butanone. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone. As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

### B. Continuing Calibration

Two CC's dated 6/16/04 and 6/17/04 were analyzed on instrument MSV1 in support of the volatile sample analyses reported in the data submissions.

The percent difference (%D) between the average RRF's and the CC RF's were within the acceptance criteria for all target analytes. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone and 2-Butanone associated with the CC's dated 6/16/04 and 6/17/04. The Acetone and 2-Butanone results were previously qualified under section 3A above.

## 4. BLANKS

Two laboratory volatile method blanks, storage blank, Equipment Blank, and Trip Blank were analyzed with this SDG. The results are summarized below.

MB173742

There was no target compounds detected in the method blank analyzed on 6/16/04.

MB174236

There was no target compounds detected in the method blank analyzed on 6/17/04.

Storage Blank (VHBLK01)

There were no target compounds detected in the storage blank analyzed on 6/17/04.

Trip Blank (SKSWTB1010)

Sulfur dioxide was detected as a TIC at a concentration of 466 ppb.

Equipment Blank (SKSWEB1010)

Sulfur dioxide was detected as a TIC at a concentration of 623 ppb.

## 5. SYSTEM MONITORING COMPOUND RECOVERY

All reported volatile system monitoring compounds were recovered within acceptable control limits (80%-120%) for all samples with the exception 4-Bromofluorobenzene associated with sample SKSW50FD1010 (121%).
As per the National Functional Guidelines if the system monitoring compound exceeds the acceptance limits then qualify detected results for that sample with "J".

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSW501010 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria except for 1,2-Dichloroethane associated with the MS and cis-1,3-Dichloropropene associated with the MS/MSD. The %RPD between the MS/MSD were within the acceptance criteria. As per the National Functional Guidelines there is no action taken on MS/MSD data alone.

## 7. LABORATORY CONTROL SAMPLE

A LCS/LCS duplicate and a LCS were analyzed in conjunction with this SDG. Recoveries were within the control limit for all constituents.

## 8. INTERNAL STANDARDS PERFORMANCE

Internal Standard (IS) areas and retention times were within acceptable limits for the reported volatile sample analyses.

## 9. COMPOUND IDENTIFICATION

All reported VOCs were correctly identified with supporting chromatograms present in the data package.

## 10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for VOCs.

## 11. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

## 12. DOCUMENTATION

The documentation appeared accurate and in order.

## 13. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

## DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 204061007 PESTICIDES

Validation of the Gas Chromatography (GC) pesticides data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in June 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204061007.

| GCAL # | Sample Description |
|---|---|
| 20406100701 | SKSW501010 |
| 20406100702 | SKSW50FD1010 |
| 20406100703 | SKSW50MS1010 |
| 20406100704 | SKSW50MSD1010 |
| 20406100706 | SKSW511010 |
| 20406100707 | SKSW521010 |
| 20406100708 | SKSWEB1010 |

## INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not

represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the pesticide data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Gas Chromatograph Electronic Capture Detector (GC/ECD) Instrument Performance Check
3. IC
4. Calibration Verification
5. Blanks
6. Surrogate Spikes
7. Matrix Spike Matrix Spike Duplicate (MS MSD)
8. Pesticide Cleanup Checks
9. Target Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. Documentation
12. Overall Assessment

## 1. HOLDING TIMES

All samples were extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. GC/ECD INSTRUMENT PERFORMANCE CHECK

The Performance Evaluation Mixture (PEM) was analyzed at the correct frequency. Absolute retention times were within limits.

The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check.

The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM). The percent breakdown for both 4,4-DDT and Endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4-DDT and Endrin in each PEM was less than 30.0% for both GC columns.

## 3. INITIAL CALIBRATION

Individual standard mixtures A and B were analyzed at the correct frequencies and concentrations. The percent resolution criterion was met for Individual standard mixtures A and B.

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20% with the exception of alpha-BHC (23.4%), delta-BHC (27.0), and 4,4'-DDE (20.7%) on column DB-1701. As per the National Functional Guidelines, if the %RSD criteria are not met for the compound(s) being quantified, qualify all associated positive quantitative results with "J" and the sample quantitation limits for non-detected target compounds with "UJ".

The multi-component target compounds were analyzed separately on both columns at a single concentration level. Retention times were determined from a minimum of three peaks.

## 4. CALIBRATION VERIFICATION

Absolute retention times were within appropriate time retention windows

## 5. BLANKS

One laboratory method blank and on Equipment blank was analyzed with this SDG. The results are summarized below.

<u>Method Blank 172726</u>

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 6/10/04.

<u>Equipment Blank SKSWEB1010</u>

No constituents were detected above the laboratory-reporting limit in the equipment blank collected on 6/09/04.

## 6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria for all samples.

## 7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSW501010 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria. The %RPD between the MS/MSD are within the acceptance criteria.

## 8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup.

## 9. TARGET COMPOUND IDENTIFICATION

All reported pesticide data were correctly identified with supporting chromatograms present in the data package.

## 10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for pesticide constituents.

## 11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the preparation method off of the CLP Form 1's and the Date Extracted off of the CLP Form 1's and IV's. The data validator manually wrote the preparation method and Date Extracted on the appropriate forms.

## 12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

## REFERENCES

US EPA, 1994. *National Functional Guidelines for Inorganic Data Review.*

US EPA, 1999. *National Functional Guidelines for Organic Data Review.*

NELAP CERTIFICATE NUMBER 01955

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC.

# ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

**Report Date** 06/30/2004

**GCAL Report** 204061007

| | |
|---|---|
| ***Deliver To*** | Earth Tech<br>200 Vine Street<br>Wilder, KY 41076<br>859-442-2300 |
| ***Attn*** | Pat Higgins |

***Customer*** Earth Tech

***Project*** Skinner Landfill

000001

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402 • Phone 225.769-4900 • Fax 225.767.5717

CASE NARRATIVE

**Client:** Earth Tech **Report:** 204061007

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

## VOLATILES MASS SPECTROMETRY

In the OLC02.1 - CLP Volatiles analysis of sample 20406100702 (SKSW50FD1010), the recovery for the surrogate 4-Bromofluorobenzene was above the upper control limit. The remaining surrogates were all within control limits.

In the volatile MS/MSD analysis for batch 275891, the recovery for 1,2-Dichloroethane was above recovery limits in the MS and the recovery for cis-1,3-dichloropropene was above recovery limits in the MS/MSD.

## SEMI-VOLATILES MASS SPECTROMETRY

In prep batch 275540, the method blank (172721) had a hit for bis(2-ethylhexyl)phthalate. The samples were re-extracted outside of holding time. This data is being submitted as additional data. The MS/MSD exhibited sporadic recovery failures. These recoveries were within limits in the LCS. This is attributed to matrix interference.

## METALS

In the ILM04.1 - CLP Metals analysis for prep batch 275566, the MS recoveries were outside the control limits for Arsenic, Selenium, and Thallium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 84% for Arsenic and 93% for Thallium. The Sample/Duplicate RPD for Beryllium, Copper, and Nickel are not applicable because the sample and/or duplicate concentration is less than five times the reporting limit. Arsenic, Barium, Chromium, Iron, Lead and Zinc RPD's are above the control limits for sample SKGW61DUP1010.

The Sample/Duplicate RPD for Nickel for prep batch 275568 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

# Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

**Common Abbreviations Utilized in this Report**

| | |
|---|---|
| **ND** | Indicates the result was Not Detected at the specified RDL |
| **DO** | Indicates the result was Diluted Out |
| **MI** | Indicates the result was subject to Matrix Interference |
| **TNTC** | Indicates the result was Too Numerous To Count |
| **SUBC** | Indicates the analysis was Sub-Contracted |
| **FLD** | Indicates the analysis was performed in the Field |
| **PQL** | Practical Quantitation Limit |
| **MDL** | Method Detection Limit |
| **RDL** | Reporting Detection Limit |
| **00:00** | Reported as a time equivalent to 12:00 AM |

**Reporting Flags Utilized in this Report**

| | |
|---|---|
| **J** | Indicates an estimated value |
| **U** | Indicates the compound was analyzed for but not detected |
| **B** | (ORGANICS) Indicates the analyte was detected in the associated Method Blank |
| **B** | (INORGANICS) Indicates the result is between the RDL and MDL |

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reporduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Curtis Ekker

CURTIS EKKER
DATA VALIDATION MANAGER
**GCAL REPORT** 204061007

THIS REPORT CONTAINS 630 PAGES.

# Report Sample Summary

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 20406100701 | SKSW501010 | Water | 06/09/2004 10:15 | 06/10/2004 09:30 |
| 20406100702 | SKSW50FD1010 | Water | 06/09/2004 10:45 | 06/10/2004 09:30 |
| 20406100703 | SKSW50MS1010 | Water | 06/09/2004 11:00 | 06/10/2004 09:30 |
| 20406100704 | SKSW50MSD1010 | Water | 06/09/2004 11:10 | 06/10/2004 09:30 |
| 20406100705 | SKSW50DUP1010 | Water | 06/09/2004 11:10 | 06/10/2004 09:30 |
| 20406100706 | SKSW511010 | Water | 06/09/2004 11:45 | 06/10/2004 09:30 |
| 20406100707 | SKSW521010 | Water | 06/09/2004 12:55 | 06/10/2004 09:30 |
| 20406100708 | SKSWEB1010 | Water | 06/09/2004 14:40 | 06/10/2004 09:30 |
| 20406100709 | SKSWTB1010 | Water | 06/09/2004 00:00 | 06/10/2004 09:30 |
| 20406100710 | SKSW501010 (DISS) | Water | 06/09/2004 10:15 | 06/10/2004 09:30 |
| 20406100711 | SKSW50FD1010 (DISS) | Water | 06/09/2004 10:45 | 06/10/2004 09:30 |
| 20406100712 | SKSW50MS1010 (DISS) | Water | 06/09/2004 10:45 | 06/10/2004 09:30 |
| 20406100713 | SKSW50DUP1010 (DISS) | Water | 06/09/2004 11:10 | 06/10/2004 09:30 |
| 20406100714 | SKSW511010 (DISS) | Water | 06/09/2004 11:45 | 06/10/2004 09:30 |
| 20406100715 | SKSW521010 (DISS) | Water | 06/09/2004 12:55 | 06/10/2004 09:30 |
| 20406100716 | SKSWEB1010 (DISS) | Water | 06/09/2004 14:40 | 06/10/2004 09:30 |

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW501010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20406100701

Level: (low/med) Lab File ID: 2040617/T8063

% Moisture: not dec. Date Collected: 06/09/04 Time: 1015

GC Column: DB-624-30M ID: 53 (mm) Date Received: 06/10/04

Instrument ID: MSV1 Date Analyzed: 06/17/04 Time: 1720

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 275891

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL | |
|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 | R |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 | |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 | |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 | R |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 | |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 | |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 | |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 | |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 | |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 | |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 | |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 | |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 | |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 | |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 | |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW501010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20406100701

Level: (low/med)

Lab File ID: 2040617/T8063

% Moisture: not dec.

Date Collected: 06/09/04 Time: 1015

GC Column: DB-624-30M ID: .53 (mm

Date Received: 06/10/04

Instrument ID: MSV1

Date Analyzed: 06/17/04 Time: 1720

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 275891

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SASW501010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: Water Lab Sample ID: 20406100701

Sample wt/vol: Units Lab File ID: 2040617/T8063

Level: (low/med) Date Collected: 06/09/04 Time: 1015

% Moisture: not dec. Date Received: 06/10/04

GC Column: DB-624-30M ID: 53 (mm Date Analyzed: 06/17/04 Time: 1720

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

*Number TICs Found:* 1

*CONCENTRATION UNITS*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1 | 7446-09-5 | Sulfur dioxide | 2.41 | 28.6 | |

4

FORM 1 VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW50FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20406100702

Level: (low/med)

Lab File ID: 2040617/T8061

% Moisture: not dec.

Date Collected: 06/09/04 Time: 1045

GC Column: DB-624-30M ID: .53 (mm

Date Received: 06/10/04

Instrument ID: MSV1

Date Analyzed: 06/17/04 Time: 1605

Soil Extract Volume: (µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL

Prep Batch: Analytical Batch: 275891

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL | |
|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 | R |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 | |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 | |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 | R |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 | |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 | |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 | |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 | |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 | |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 | |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 | |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 | |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 | |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 | |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 | |



8/24/04
MSC

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW50FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20406100702

Level: (low/med) Lab File ID: 2040617/T8061

% Moisture: not dec. Date Collected: 06/09/04 Time: 1045

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/10/04

Instrument ID: MSV1 Date Analyzed: 06/17/04 Time: 1605

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 275891

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSW50FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: Water Lab Sample ID: 20406100702

Sample wt/vol: Units: Lab File ID: 2040617/T8061

Level: (low/med) Date Collected: 06/09/04 Time: 1045

% Moisture: not dec. Date Received: 06/10/04

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 06/17/04 Time: 1605

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: ( µL

Soil Aliquot Volume: ( µL

*Number TICs Found:* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | | |
|---|---|---|---|---|---|---|
| 1. | 7446-09-5 | Sulfur dioxide | 2.393 | 377 | | u |

6/24/04

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW511010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No. SDG No.: 204061007

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20406100706

Level: (low/med) Lab File ID 2040616/T8039

% Moisture: not dec. Date Collected: 06/09/04 Time: 1145

GC Column: DB-624-30M ID: .53 (mm Date Received: 06/10/04

Instrument ID: MSV1 Date Analyzed: 06/16/04 Time: 2133

Soil Extract Volume: (µL Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL Prep Batch Analytical Batch: 275809

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL | |
|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 | R |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 | R |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 | |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 | R |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 | |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 | |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 | |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 | |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 | |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 | |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 | |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 | |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 | |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 | |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 | |



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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW511010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20406100706

Level: (low/med)

Lab File ID: 2040616/T8039

% Moisture: not dec.

Date Collected: 06/09/04 Time: 1145

GC Column: DB-624-30M ID: .53 (mm

Date Received: 06/10/04

Instrument ID: MSV1

Date Analyzed: 06/16/04 Time: 2133

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 275809

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSW511010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: Water Lab Sample ID: 20406100706

Sample wt/vol: Units: Lab File ID: 2040616/T8039

Level: (low/med) Date Collected: 06/09/04 Time: 1145

% Moisture: not dec. Date Received: 06/10/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 06/16/04 Time: 2133

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

*Number TICs Found:* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | | |
|---|---|---|---|---|---|---|
| 1 | 7446-09-5 | Sulfur dioxide | 2.431 | 6.06 | | u |

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW521010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20406100707

Level: (low/med)

Lab File ID: 2040616/T8038

% Moisture: not dec.

Date Collected: 06/09/04 Time: 1255

GC Column: DB-624-30M ID: .53 (mm

Date Received: 06/10/04

Instrument ID: MSV1

Date Analyzed: 06/16/04 Time: 2109

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 275809

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL | |
|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 | R |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 | R |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 | |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 | R |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 | |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 | |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 | |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 | |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 | |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 | |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 | |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 | |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 | |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 | |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 | |



8/24/04 MR

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW521010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No: SAS No.: SDG No.: 204061007

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20406100707

Level (low/med) Lab File ID: 2040616/T8038

% Moisture: not dec. Date Collected: 06/09/04 Time: 1255

GC Column: DB-624-30M ID 53 mm Date Received: 06/10/04

Instrument ID: MSV1 Date Analyzed: 06/16/04 Time: 2109

Soil Extract Volume: (µL Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL Prep Batch: Analytical Batch: 275809

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSW521010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: Water Lab Sample ID: 20406100707

Sample wt/vol: Units: Lab File ID: 2040616/T8038

Level: (low/med) Date Collected: 06/09/04 Time: 1255

% Moisture: not dec. Date Received: 06/10/04

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 06/16/04 Time: 2109

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: ( µL

Soil Aliquot Volume: ( µL

*Number TICs Found:* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1. | 7446-09-5 | Sulfur dioxide | 2.387 | 164 | |

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWEB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No: SAS No.: SDG No.: 204061007

Matrix (soil/water): Water

Sample wt/vol: 25 (g/mL) mL

Lab Sample ID: 20406100708

Level (low/med):

Lab File ID: 2040616/T8040

% Moisture: not dec.

Date Collected: 06/09/04 Time: 1440

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 06/10/04

Instrument ID: MSV1

Date Analyzed: 06/16/04 Time: 2157

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 275809

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL | |
|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 | R |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 | R |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 | |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 | R |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 | |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 | |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 | |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 | |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 | |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 | |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 | |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 | |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 | |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 | |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 | |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWEB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 204061007O8

Level: (low/med)

Lab File ID: 2040616/T8040

% Moisture: not dec.

Date Collected: 06/09/04 Time: 1440

GC Column: DB-624-30M ID: .53 (mm

Date Received: 06/10/04

Instrument ID: MSV1

Date Analyzed: 06/16/04 Time: 2157

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 275809

*CONCENTRATION UNITS: ug/L*

Analytical Method: OLCO 2.1

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSWEB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: Water Lab Sample ID: 204061007C8

Sample wt/vol: Units: Lab File ID: 2D40616/T8040

Level: (low/med) Date Collected: 06/09/04 Time: 1440

% Moisture: not dec. Date Received: 06/10/04

GC Column: DB-624-30M ID: .53 mm Date Analyzed: 06/16/04 Time: 2157

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: uL

Soil Aliquot Volume: uL

*Number TICs Found:* 2

*CONCENTRATION UNITS:*

| | *CAS NO.* | *COMPOUND* | *RT* | *EST. CONC.* | |
|---|---|---|---|---|---|
| 1. | 7446-09-5 | Sulfur dioxide | 2.383 | 623 | |
| 2. | 56701-03-2 | Carbamic acid, 1,3,5-hexatrien | 7.043 | .542 | |

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO

SKSWTB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20406100709

Level: (low/med)

Lab File ID: 2040616/T8041

% Moisture: not dec.

Date Collected: 06/09/04 Time: 0000

GC Column: DB-624-30M ID: .53 (mm

Date Received: 06/10/04

Instrument ID: MSV1

Date Analyzed: 06/16/04 Time: 2220

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 275809

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL | |
|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 | R |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 | R |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 | |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 | R |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 | |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 | |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 | |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 | |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 | |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 | |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 | |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 | |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 | |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 | |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 | |

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VOLATILE ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

SKS[illegible]TB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix (soil/water): Water

Sample wt/vol: 25 (g/mL) mL

Lab Sample ID: 204061007 09

Level (low/med):

Lab File ID: 2040616/T8041

% Moisture: not dec.

Date Collected: 06/09/04 Time: 0000

GC Column: DB-624-30M ID: 53 (mm)

Date Received: 06/10/04

Instrument ID: MSV1

Date Analyzed: 06/15/04 Time: 2220

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 275809

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSWTB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: Water Lab Sample ID: 20406100709

Sample wt/vol: Units: Lab File ID: 2040616/T8041

Level: (low/med) Date Collected: 06/09/04 Time: 0000

% Moisture: not dec. Date Received: 06/10/04

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 06/16/04 Time: 2220

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: ( µL

Soil Aliquot Volume: ( µL

*Number TICs Found:* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1. | 7446-09-5 | Sulfur dioxide | 2.388 | 466 | |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.

SAS No.: SDG No.: 204061007

Matrix: Water

Sample wt/vol: 1000 Units mL

Level: (low/med)

% Moisture: decanted (Y/N)

GC Column: DB-5MS-30M ID: 25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

*CONCENTRATION UNITS: ug/L*

Sample ID: SKSW501010

Contract:

Lab File ID: 2040615P/B1097

Lab Sample ID: 20406100701

Date Collected: 06/09/04 Time: 1015

Date Received: 06/10/04

Date Extracted: 6/10/04

Date Analyzed: 06/16/04 Time: 0056

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 275540 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 95-95-4 | 2,4,5-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 120-83-2 | 2,4-Dichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 51-28-5 | 2,4-Dinitrophenol | 25.0 | U | 0.010 | 25.0 | UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 91-58-7 | 2-Chloronaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 95-57-8 | 2-Chlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-57-6 | 2-Methylnaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 88-74-4 | 2-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 88-75-5 | 2-Nitrophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10.0 | U | 0.010 | 10.0 | |
| 99-09-2 | 3-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 25.0 | U | 0.010 | 25.0 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10.0 | U | 0.010 | 10.0 | |
| 106-47-8 | 4-Chloroaniline | 10.0 | U | 0.010 | 10.0 | R |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10.0 | U | 0.010 | 10.0 | |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10.0 | U | 0.010 | 10.0 | |
| 83-32-9 | Acenaphthene | 10.0 | U | 0.010 | 10.0 | |
| 208-96-8 | Acenaphthylene | 10.0 | U | 0.010 | 10.0 | |
| 120-12-7 | Anthracene | 10.0 | U | 0.010 | 10.0 | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | U | 0.010 | 10.0 | |
| 50-32-8 | Benzo(a)pyrene | 10.0 | U | 0.010 | 10.0 | |
| 205-99-2 | Benzo(b)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 191-24-2 | Benzo(g,h,i)perylene | 10.0 | U | 0.010 | 10.0 | |
| 207-08-9 | Benzo(k)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10.0 | U | 0.010 | 10.0 | |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 117-81-7 | bis(2-ethylhexyl)phthalate | 2.98 | J B | 0.010 | 10.0 | U |

FORM SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204061007

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 ( µL )

Injection Volume: 1.0 ( µL )

GPC Cleanup: (Y/N) N pH:

*CONCENTRATION UNITS: ug/L*

Sample ID: SKSW501010

Contract:

Lab File ID: 2040615P/B1097

Lab Sample ID: 20406100701

Date Collected: 06/09/04 Time: 1015

Date Received: 06/10/04

Date Extracted: 6/10/04

Date Analyzed: 06/16/04 Time: 0056

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 275540 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL |
|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenylether | 10.0 | U | 0.010 | 10.0 |
| 85-68-7 | Butylbenzylphthalate | 10.0 | U | 0.010 | 10.0 |
| 86-74-8 | Carbazole | 10.0 | U | 0.010 | 10.0 |
| 218-01-9 | Chrysene | 10.0 | U | 0.010 | 10.0 |
| 84-74-2 | Di-n-butylphthalate | 10.0 | U | 0.010 | 10.0 |
| 117-84-0 | Di-n-octylphthalate | 10.0 | U | 0.010 | 10.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 10.0 | U | 0.010 | 10.0 |
| 132-64-9 | Dibenzofuran | 10.0 | U | 0.010 | 10.0 |
| 84-66-2 | Diethylphthalate | 10.0 | U | 0.010 | 10.0 |
| 131-11-3 | Dimethyl-phthalate | 10.0 | U | 0.010 | 10.0 |
| 105-67-9 | 2,4-Dimethylphenol | 10.0 | U | 0.010 | 10.0 |
| 206-44-0 | Fluoranthene | 10.0 | U | 0.010 | 10.0 |
| 86-73-7 | Fluorene | 10.0 | U | 0.010 | 10.0 |
| 118-74-1 | Hexachlorobenzene | 10.0 | U | 0.010 | 10.0 |
| 87-68-3 | Hexachlorobutadiene | 10.0 | U | 0.010 | 10.0 |
| 77-47-4 | Hexachlorocyclopentadiene | 10.0 | U | 0.010 | 10.0 |
| 67-72-1 | Hexachloroethane | 10.0 | U | 0.010 | 10.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10.0 | U | 0.010 | 10.0 |
| 78-59-1 | Isophorone | 10.0 | U | 0.010 | 10.0 |
| 91-20-3 | Naphthalene | 10.0 | U | 0.010 | 10.0 |
| 100-01-6 | 4-Nitroaniline | 25.0 | U | 0.010 | 25.0 |
| 98-95-3 | Nitrobenzene | 10.0 | U | 0.010 | 10.0 |
| 100-02-7 | 4-Nitrophenol | 25.0 | U | 0.010 | 25.0 |
| 87-86-5 | Pentachlorophenol | 25.0 | U | 0.010 | 25.0 |
| 85-01-8 | Phenanthrene | 10.0 | U | 0.010 | 10.0 |
| 108-95-2 | Phenol | 10.0 | U | 0.010 | 10.0 |
| 129-00-0 | Pyrene | 10.0 | U | 0.010 | 10.0 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10.0 | U | 0.010 | 10.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 10.0 | U | 0.010 | 10.0 |
| 95-48-7 | o-Cresol | 10.0 | U | 0.010 | 10.0 |

3/24/04

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204061007
Matrix: Water
Sample wt/vol: Units
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID .25 (mm
Concentrated Extract Volume: 1000 (µL
Injection Volume: 1.0 (µL
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW501010
Contract:
Lab File ID: B1097
Lab Sample ID: 20406100701
Date Collected: 06/09/04 Time: 1015
Date Received: 06/10/04
Date Extracted: 6/10/04
Date Analyzed: 06/16/04 Time: 0056
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

*Number TICs Found:* 0

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1 | | No tics detected | | | |

6/17/04
[illegible]

FORM I SV-TIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204061007

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

*CONCENTRATION UNITS: ug/L*

Sample ID: SKSW50FD1010

Contract:

Lab File ID: 2040615P/B1098

Lab Sample ID: 20406100702

Date Collected: 06/09/04 Time: 1045

Date Received: 06/10/04

Date Extracted: 6/10/04

Date Analyzed: 06/16/04 Time: 0114

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 275540 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 95-95-4 | 2,4,5-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 120-83-2 | 2,4-Dichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 51-28-5 | 2,4-Dinitrophenol | 25.0 | U | 0.010 | 25.0 | UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 91-58-7 | 2-Chloronaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 95-57-8 | 2-Chlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-57-6 | 2-Methylnaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 88-74-4 | 2-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 88-75-5 | 2-Nitrophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10.0 | U | 0.010 | 10.0 | |
| 99-09-2 | 3-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 25.0 | U | 0.010 | 25.0 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10.0 | U | 0.010 | 10.0 | |
| 106-47-8 | 4-Chloroaniline | 10.0 | U | 0.010 | 10.0 | R |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10.0 | U | 0.010 | 10.0 | |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10.0 | U | 0.010 | 10.0 | |
| 83-32-9 | Acenaphthene | 10.0 | U | 0.010 | 10.0 | |
| 208-96-8 | Acenaphthylene | 10.0 | U | 0.010 | 10.0 | |
| 120-12-7 | Anthracene | 10.0 | U | 0.010 | 10.0 | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | U | 0.010 | 10.0 | |
| 50-32-8 | Benzo(a)pyrene | 10.0 | U | 0.010 | 10.0 | |
| 205-99-2 | Benzo(b)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 191-24-2 | Benzo(g,h,i)perylene | 10.0 | U | 0.010 | 10.0 | |
| 207-08-9 | Benzo(k)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10.0 | U | 0.010 | 10.0 | |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 117-81-7 | bis(2-ethylhexyl)phthalate | 10.0 6.11 | J B | 0.010 | 10.0 | U |

8/24/04
MSW

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204061007

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted (Y/N)

GC Column: DB-5MS-30M ID: 25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH

*CONCENTRATION UNITS: ug/L*

Sample ID: SKSW50FD1010

Contract:

Lab File ID: 2040615P/B1098

Lab Sample ID: 20406100702

Date Collected: 06/09/04 Time: 1045

Date Received: 06/10/04

Date Extracted: 6/10/04

Date Analyzed: 06/16/04 Time: 0114

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 275540 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL |
|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenylether | 10.0 | U | 0.010 | 10.0 |
| 85-68-7 | Butylbenzylphthalate | 10.0 | U | 0.010 | 10.0 |
| 86-74-8 | Carbazole | 10.0 | U | 0.010 | 10.0 |
| 218-01-9 | Chrysene | 10.0 | U | 0.010 | 10.0 |
| 84-74-2 | Di-n-butylphthalate | 0.0558 | J B | 0.010 | 10.0 |
| 117-84-0 | Di-n-octylphthalate | 10.0 | U | 0.010 | 10.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 10.0 | U | 0.010 | 10.0 |
| 132-64-9 | Dibenzofuran | 10.0 | U | 0.010 | 10.0 |
| 84-66-2 | Diethylphthalate | 10.0 | U | 0.010 | 10.0 |
| 131-11-3 | Dimethyl-phthalate | 10.0 | U | 0.010 | 10.0 |
| 105-67-9 | 2,4-Dimethylphenol | 10.0 | U | 0.010 | 10.0 |
| 206-44-0 | Fluoranthene | 10.0 | U | 0.010 | 10.0 |
| 86-73-7 | Fluorene | 10.0 | U | 0.010 | 10.0 |
| 118-74-1 | Hexachlorobenzene | 10.0 | U | 0.010 | 10.0 |
| 87-68-3 | Hexachlorobutadiene | 10.0 | U | 0.010 | 10.0 |
| 77-47-4 | Hexachlorocyclopentadiene | 10.0 | U | 0.010 | 10.0 |
| 67-72-1 | Hexachloroethane | 10.0 | U | 0.010 | 10.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10.0 | U | 0.010 | 10.0 |
| 78-59-1 | Isophorone | 10.0 | U | 0.010 | 10.0 |
| 91-20-3 | Naphthalene | 10.0 | U | 0.010 | 10.0 |
| 100-01-6 | 4-Nitroaniline | 25.0 | U | 0.010 | 25.0 |
| 98-95-3 | Nitrobenzene | 10.0 | U | 0.010 | 10.0 |
| 100-02-7 | 4-Nitrophenol | 25.0 | U | 0.010 | 25.0 |
| 87-86-5 | Pentachlorophenol | 25.0 | U | 0.010 | 25.0 |
| 85-01-8 | Phenanthrene | 10.0 | U | 0.010 | 10.0 |
| 108-95-2 | Phenol | 10.0 | U | 0.010 | 10.0 |
| 129-00-0 | Pyrene | 10.0 | U | 0.010 | 10.0 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10.0 | U | 0.010 | 10.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 10.0 | U | 0.010 | 10.0 |
| 95-48-7 | o-Cresol | 10.0 | U | 0.010 | 10.0 |

U

3/24/04
ASA

FORM SV-1

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL

Lab Code: LA024 2 Case No.:

SAS No.: SDG No.: 204061007

Matrix: Water

Sample wt/vol: Units:

Level: (low/med)

% Moisture: not dec.

GC Column: DB-5MS-30M ID: .25 (mm

Concentrated Extract Volume: 1000 ( µL

Injection Volume: 1.0 ( µL

GPC Cleanup: (Y/N N pH:

Sample ID SKSW50FD1010

Contract:

Lab File ID: B1097

Lab Sample ID: 20406100702

Date Collected: 06/09/04 Time: 1045

Date Received: 06/10/04

Date Extracted: 6/10/04

Date Analyzed: 06/16/04 Time: 0114

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: SW-846 8270C

Instrument ID: MSSV3

*Number TICs Found :* 0

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1. | | No tics detected | | | |

8/24/04
MSB

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204061007
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med)
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: 25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSW5110:0
Contract:
Lab File ID: 2040615P/B1101
Lab Sample ID: 20406100706
Date Collected: 06/09/04 Time: 1145
Date Received: 06/10/04
Date Extracted: 6/16/04
Date Analyzed: 06/16/04 Time: 0206
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 275540 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 95-95-4 | 2,4,5-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 120-83-2 | 2,4-Dichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 51-28-5 | 2,4-Dinitrophenol | 25.0 | U | 0.010 | 25.0 | UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 91-58-7 | 2-Chloronaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 95-57-8 | 2-Chlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-57-6 | 2-Methylnaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 88-74-4 | 2-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 88-75-5 | 2-Nitrophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10.0 | U | 0.010 | 10.0 | |
| 99-09-2 | 3-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 25.0 | U | 0.010 | 25.0 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10.0 | U | 0.010 | 10.0 | |
| 106-47-8 | 4-Chloroaniline | 10.0 | U | 0.010 | 10.0 | R |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10.0 | U | 0.010 | 10.0 | |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10.0 | U | 0.010 | 10.0 | |
| 83-32-9 | Acenaphthene | 10.0 | U | 0.010 | 10.0 | |
| 208-96-8 | Acenaphthylene | 10.0 | U | 0.010 | 10.0 | |
| 120-12-7 | Anthracene | 10.0 | U | 0.010 | 10.0 | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | U | 0.010 | 10.0 | |
| 50-32-8 | Benzo(a)pyrene | 10.0 | U | 0.010 | 10.0 | |
| 205-99-2 | Benzo(b)fluoranthene | 10.0 | J | 0.010 | 10.0 | |
| 191-24-2 | Benzo(g,h,i)perylene | 10.0 | U | 0.010 | 10.0 | |
| 207-08-9 | Benzo(k)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 111-91-1 | Bis(2-Chloroethoxy) methane | 10.0 | U | 0.010 | 10.0 | |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 108-60-1 | bis(2-Chloroisopropyl) ether | 10.0 | U | 0.010 | 10.0 | |
| 117-81-7 | bis(2-ethylhexyl)phthalate | 15.24 | J B | 0.010 | 10.0 | R |

FORM SV-1

000204

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204061007

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

*CONCENTRATION UNITS: ug/L*

Sample ID: SKSW511010

Contract:

Lab File ID: 2040615P/B1101

Lab Sample ID: 20406100706

Date Collected: 06/09/04 Time: 1145

Date Received: 06/10/04

Date Extracted: 6/10/04

Date Analyzed: 06/16/04 Time: 0206

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 275540 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL |
|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenylether | 10.0 | U | 0.010 | 10.0 |
| 85-68-7 | Butylbenzylphthalate | 10.0 | U | 0.010 | 10.0 |
| 86-74-8 | Carbazole | 10.0 | U | 0.010 | 10.0 |
| 218-01-9 | Chrysene | 10.0 | U | 0.010 | 10.0 |
| 84-74-2 | Di-n-butylphthalate | 10.0 ~~0.822~~ | J B | 0.010 | 10.0 |
| 117-84-0 | Di-n-octylphthalate | 10.0 | U | 0.010 | 10.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 10.0 | U | 0.010 | 10.0 |
| 132-64-9 | Dibenzofuran | 10.0 | U | 0.010 | 10.0 |
| 84-66-2 | Diethylphthalate | 10.0 | U | 0.010 | 10.0 |
| 131-11-3 | Dimethyl-phthalate | 10.0 | U | 0.010 | 10.0 |
| 105-67-9 | 2,4-Dimethylphenol | 10.0 | U | 0.010 | 10.0 |
| 206-44-0 | Fluoranthene | 10.0 | U | 0.010 | 10.0 |
| 86-73-7 | Fluorene | 10.0 | U | 0.010 | 10.0 |
| 118-74-1 | Hexachlorobenzene | 10.0 | U | 0.010 | 10.0 |
| 87-68-3 | Hexachlorobutadiene | 10.0 | U | 0.010 | 10.0 |
| 77-47-4 | Hexachlorocyclopentadiene | 10.0 | U | 0.010 | 10.0 |
| 67-72-1 | Hexachloroethane | 10.0 | U | 0.010 | 10.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10.0 | U | 0.010 | 10.0 |
| 78-59-1 | Isophorone | 10.0 | U | 0.010 | 10.0 |
| 91-20-3 | Naphthalene | 10.0 | U | 0.010 | 10.0 |
| 100-01-6 | 4-Nitroaniline | 25.0 | U | 0.010 | 25.0 |
| 98-95-3 | Nitrobenzene | 10.0 | U | 0.010 | 10.0 |
| 100-02-7 | 4-Nitrophenol | 25.0 | U | 0.010 | 25.0 |
| 87-86-5 | Pentachlorophenol | 25.0 | U | 0.010 | 25.0 |
| 85-01-8 | Phenanthrene | 10.0 | U | 0.010 | 10.0 |
| 108-95-2 | Phenol | 10.0 | U | 0.010 | 10.0 |
| 129-00-0 | Pyrene | 10.0 | U | 0.010 | 10.0 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10.0 | U | 0.010 | 10.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 10.0 | U | 0.010 | 10.0 |
| 95-48-7 | o-Cresol | 10.0 | U | 0.010 | 10.0 |

FORM I SV-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: L4024 2 Case No.:
SAS No.: SDG No.: 20406100706
Matrix: Water
Sample wt/vol: Units
Level. (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID 25 (mm
Concentrated Extract Volume: 1000 (µL
Injection Volume: 1.0 (µL
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW51010
Contract:
Lab File ID: B1097
Lab Sample ID: 20406100706
Date Collected: 06/09/04 Time: 1145
Date Received: 06/10/04
Date Extracted: 6/10/04
Date Analyzed: 06/16/04 Time: 0206
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

*Number TICs Found:* 0

*CONCENTRATION UNITS*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1. | | No tics detected | | | |

6/24/04

FORM I SV-TIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204061007
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med)
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

*CONCENTRATION UNITS: ug/L*

Sample ID: SKSW521010
Contract:
Lab File ID: 2040615P/B1102
Lab Sample ID: 20406100707
Date Collected: 06/09/04 Time: 1255
Date Received: 06/10/04
Date Extracted: 6/10/04
Date Analyzed: 06/16/04 Time: 0224
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 275540 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 95-95-4 | 2,4,5-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 120-83-2 | 2,4-Dichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 51-28-5 | 2,4-Dinitrophenol | 25.0 | U | 0.010 | 25.0 | UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 91-58-7 | 2-Chloronaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 95-57-8 | 2-Chlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-57-6 | 2-Methylnaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 88-74-4 | 2-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 88-75-5 | 2-Nitrophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10.0 | U | 0.010 | 10.0 | |
| 99-09-2 | 3-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 25.0 | U | 0.010 | 25.0 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10.0 | U | 0.010 | 10.0 | |
| 106-47-8 | 4-Chloroaniline | 10.0 | U | 0.010 | 10.0 | R |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10.0 | U | 0.010 | 10.0 | |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10.0 | U | 0.010 | 10.0 | |
| 83-32-9 | Acenaphthene | 10.0 | U | 0.010 | 10.0 | |
| 208-96-8 | Acenaphthylene | 10.0 | U | 0.010 | 10.0 | |
| 120-12-7 | Anthracene | 10.0 | U | 0.010 | 10.0 | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | U | 0.010 | 10.0 | |
| 50-32-8 | Benzo(a)pyrene | 10.0 | U | 0.010 | 10.0 | |
| 205-99-2 | Benzo(b)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 191-24-2 | Benzo(g,h,i)perylene | 10.0 | U | 0.010 | 10.0 | |
| 207-08-9 | Benzo(k)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10.0 | U | 0.010 | 10.0 | |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 117-81-7 | bis(2-ethylhexyl)phthalate | ~~10.0~~ 22 | J B | 0.010 | 10.0 | U |

8/24/04 MSB

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.
SAS No.: SDG No.: 204061007
Matrix: Water
Sample wt/vol: 1000 Units mL
Level: (low/med)
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKSW521010
Contract:
Lab File ID: 2040615P/B1102
Lab Sample ID: 20406100707
Date Collected: 06/09/04 Time: 1255
Date Received: 06/10/04
Date Extracted: 6/10/04
Date Analyzed: 06/16/04 Time: 0224
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 275540 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL |
|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenylether | 10.0 | U | 0.010 | 10.0 |
| 85-68-7 | Butylbenzylphthalate | 10.0 | U | 0.010 | 10.0 |
| 86-74-8 | Carbazole | 10.0 | U | 0.010 | 10.0 |
| 218-01-9 | Chrysene | 10.0 | U | 0.010 | 10.0 |
| 84-74-2 | Di-n-butylphthalate | 10.788 | J D | 0.010 | 10.0 |
| 117-84-0 | Di-n-octylphthalate | 10.0 | U | 0.010 | 10.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 10.0 | U | 0.010 | 10.0 |
| 132-64-9 | Dibenzofuran | 10.0 | U | 0.010 | 10.0 |
| 84-66-2 | Diethylphthalate | 10.0 | U | 0.010 | 10.0 |
| 131-11-3 | Dimethyl-phthalate | 10.0 | U | 0.010 | 10.0 |
| 105-67-9 | 2,4-Dimethylphenol | 10.0 | U | 0.010 | 10.0 |
| 206-44-0 | Fluoranthene | 10.0 | U | 0.010 | 10.0 |
| 86-73-7 | Fluorene | 10.0 | U | 0.010 | 10.0 |
| 118-74-1 | Hexachlorobenzene | 10.0 | U | 0.010 | 10.0 |
| 87-68-3 | Hexachlorobutadiene | 10.0 | U | 0.010 | 10.0 |
| 77-47-4 | Hexachlorocyclopentadiene | 10.0 | U | 0.010 | 10.0 |
| 67-72-1 | Hexachloroethane | 10.0 | U | 0.010 | 10.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10.0 | U | 0.010 | 10.0 |
| 78-59-1 | Isophorone | 10.0 | U | 0.010 | 10.0 |
| 91-20-3 | Naphthalene | 10.0 | U | 0.010 | 10.0 |
| 100-01-6 | 4-Nitroaniline | 25.0 | U | 0.010 | 25.0 |
| 98-95-3 | Nitrobenzene | 10.0 | U | 0.010 | 10.0 |
| 100-02-7 | 4-Nitrophenol | 25.0 | U | 0.010 | 25.0 |
| 87-86-5 | Pentachlorophenol | 25.0 | U | 0.010 | 25.0 |
| 85-01-8 | Phenanthrene | 10.0 | U | 0.010 | 10.0 |
| 108-95-2 | Phenol | 10.0 | U | 0.010 | 10.0 |
| 129-00-0 | Pyrene | 10.0 | U | 0.010 | 10.0 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10.0 | U | 0.010 | 10.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 10.0 | U | 0.010 | 10.0 |
| 95-48-7 | o-Cresol | 10.0 | U | 0.010 | 10.0 |

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FORM I SV-1

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL

Lab Code: LA024 2 Case No.:

SAS No.: SDG No.: 204061007

Matrix: Water

Sample wt/vol: Units:

Level: (low/med)

% Moisture: not dec.

GC Column: DB-5MS-30M ID: .25 (mm

Concentrated Extract Volume: 1000 (µL

Injection Volume: 1.0 (µL

GPC Cleanup: (Y/N N pH:

Sample ID SKSW521010

Contract:

Lab File ID: B1102

Lab Sample ID: 20406100707

Date Collected: 06/09/04 Time: 1255

Date Received: 06/10/04

Date Extracted: 6/10/04

Date Analyzed: 06/16/04 Time: 0224

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: SW-846 8270C

Instrument ID: MSSV3

*Number TICs Found :* 0

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1. | | No tics detected | | | |

3/24/04
MSR

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.

SAS No.: SDG No. 204061007

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

*CONCENTRATION UNITS:* ug/L

Sample ID: SKSWEB1010

Contract:

Lab File ID: 2040615P/B1103

Lab Sample ID: 20406100708

Date Collected: 06/09/04 Time: 1440

Date Received: 06/10/04

Date Extracted: 6/10/04

Date Analyzed: 06/16/04 Time: 0242

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 275540 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 95-95-4 | 2,4,5-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 120-83-2 | 2,4-Dichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 51-28-5 | 2,4-Dinitrophenol | 25.0 | U | 0.010 | 25.0 | UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 91-58-7 | 2-Chloronaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 95-57-8 | 2-Chlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-57-6 | 2-Methylnaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 88-74-4 | 2-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 88-75-5 | 2-Nitrophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10.0 | U | 0.010 | 10.0 | |
| 99-09-2 | 3-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 25.0 | U | 0.010 | 25.0 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10.0 | U | 0.010 | 10.0 | |
| 106-47-8 | 4-Chloroaniline | 10.0 | U | 0.010 | 10.0 | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10.0 | U | 0.010 | 10.0 | |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10.0 | U | 0.010 | 10.0 | |
| 83-32-9 | Acenaphthene | 10.0 | U | 0.010 | 10.0 | |
| 208-96-8 | Acenaphthylene | 10.0 | U | 0.010 | 10.0 | |
| 120-12-7 | Anthracene | 10.0 | U | 0.010 | 10.0 | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | U | 0.010 | 10.0 | |
| 50-32-8 | Benzo(a)pyrene | 10.0 | U | 0.010 | 10.0 | |
| 205-99-2 | Benzo(b)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 191-24-2 | Benzo(g,h,i)perylene | 10.0 | U | 0.010 | 10.0 | |
| 207-08-9 | Benzo(k)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10.0 | U | 0.010 | 10.0 | |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 117-81-7 | bis(2-ethylhexyl)phthalate | 3.9 | J | 0.010 | 10.0 | LL |

FORM I SV-1

000222

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204061007

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

*CONCENTRATION UNITS: ug/L*

Sample ID: SKSWEB1010

Contract:

Lab File ID: 2040615P/B1103

Lab Sample ID: 20406100708

Date Collected: 06/09/04 Time: 1440

Date Received: 06/10/04

Date Extracted: 6/10/04

Date Analyzed: 06/16/04 Time: 0242

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: OLM0 4.2

Instrument ID: MSSV3

Prep Batch: 275540 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL |
|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenylether | 10.0 | U | 0.010 | 10.0 |
| 85-68-7 | Butylbenzylphthalate | 10.0 | U | 0.010 | 10.0 |
| 86-74-8 | Carbazole | 10.0 | U | 0.010 | 10.0 |
| 218-01-9 | Chrysene | 10.0 | U | 0.010 | 10.0 |
| 84-74-2 | Di-n-butylphthalate | ~~0.672~~ | J B | 0.010 | 10.0 |
| 117-84-0 | Di-n-octylphthalate | 10.0 | U | 0.010 | 10.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 10.0 | U | 0.010 | 10.0 |
| 132-64-9 | Dibenzofuran | 10.0 | U | 0.010 | 10.0 |
| 84-66-2 | Diethylphthalate | 1.27 | J | 0.010 | 10.0 |
| 131-11-3 | Dimethyl-phthalate | 10.0 | U | 0.010 | 10.0 |
| 105-67-9 | 2,4-Dimethylphenol | 10.0 | U | 0.010 | 10.0 |
| 206-44-0 | Fluoranthene | 10.0 | U | 0.010 | 10.0 |
| 86-73-7 | Fluorene | 10.0 | U | 0.010 | 10.0 |
| 118-74-1 | Hexachlorobenzene | 10.0 | U | 0.010 | 10.0 |
| 87-68-3 | Hexachlorobutadiene | 10.0 | U | 0.010 | 10.0 |
| 77-47-4 | Hexachlorocyclopentadiene | 10.0 | U | 0.010 | 10.0 |
| 67-72-1 | Hexachloroethane | 10.0 | U | 0.010 | 10.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10.0 | U | 0.010 | 10.0 |
| 78-59-1 | Isophorone | 10.0 | U | 0.010 | 10.0 |
| 91-20-3 | Naphthalene | 10.0 | U | 0.010 | 10.0 |
| 100-01-6 | 4-Nitroaniline | 25.0 | U | 0.010 | 25.0 |
| 98-95-3 | Nitrobenzene | 10.0 | U | 0.010 | 10.0 |
| 100-02-7 | 4-Nitrophenol | 25.0 | U | 0.010 | 25.0 |
| 87-86-5 | Pentachlorophenol | 25.0 | U | 0.010 | 25.0 |
| 85-01-8 | Phenanthrene | 10.0 | U | 0.010 | 10.0 |
| 108-95-2 | Phenol | 10.0 | U | 0.010 | 10.0 |
| 129-00-0 | Pyrene | 10.0 | U | 0.010 | 10.0 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10.0 | U | 0.010 | 10.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 10.0 | U | 0.010 | 10.0 |
| 95-48-7 | o-Cresol | 10.0 | U | 0.010 | 10.0 |

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8/24/04

VOLATILE ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LAC24 2 Case No.:
SAS No.: SDG No.: 20406100708
Matrix: Water
Sample wt/vol: Units
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm
Concentrated Extract Volume: 1000 (µL
Injection Volume: 1.0 (µL
GPC Cleanup: (Y/N N pH:

Sample ID: SKSWEB1010
Contract:
Lab File ID: B1103
Lab Sample ID: 20406100708
Date Collected: 06/09/04 Time: 1440
Date Received: 06/10/04
Date Extracted:
Date Analyzed: 06/16/04 Time: 0242
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

*Number TICs Found : 0*

*CONCENTRATION UNITS*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1. | | No tics detected | | | |

FORM I SV-TIC

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB1701-30M ID: .53 (mm)

Concentrated Extract Volume: 1000 ( µL )

Soil Aliquot Volume: ( µL )

Injection Volume: 1 ( µL )

GPC Cleanup: (Y/N) N pH:

Prep Batch: 275541 Analytical Batch: 276482

*CONCENTRATION UNITS: ug/L*

Sample ID SKSW501010

Contract:

SAS No.: SDG No.: 204061007

Lab Sample ID: 20406100701

Date Collected 06/09/04 Time: 1015

Date Received: 06/10/04

Date Extracted: 6/10/04

Date Analyzed: 06/28/04 Time: 1527

Dilution Factor: 1 Analyst: TLS

Prep Method: 3510

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A

Lab File ID: 2040628/SV3014

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 72-54-8 | 4,4'-DDD | 0.100 | U | 0.00010 | 0.100 | |
| 72-55-9 | 4,4'-DDE | 0.100 | U | 0.00010 | 0.100 | UJ |
| 50-29-3 | 4,4'-DDT | 0.100 | U | 0.00010 | 0.100 | |
| 309-00-2 | Aldrin | 0.050 | U | 0.00010 | 0.050 | |
| 12674-11-2 | Aroclor-1016 | 1.00 | U | 0.00010 | 1.00 | |
| 11104-28-2 | Aroclor-1221 | 2.00 | U | 0.00010 | 2.00 | |
| 11141-16-5 | Aroclor-1232 | 1.00 | U | 0.00010 | 1.00 | |
| 53469-21-9 | Aroclor-1242 | 1.00 | U | 0.00010 | 1.00 | |
| 12672-29-6 | Aroclor-1248 | 1.00 | U | 0.00010 | 1.00 | |
| 11097-69-1 | Aroclor-1254 | 1.00 | U | 0.00010 | 1.00 | |
| 11096-82-5 | Aroclor-1260 | 1.00 | U | 0.00010 | 1.00 | |
| 60-57-1 | Dieldrin | 0.100 | U | 0.00010 | 0.100 | |
| 959-98-8 | Endosulfan I | 0.050 | U | 0.00010 | 0.050 | |
| 33213-65-9 | Endosulfan II | 0.100 | U | 0.00010 | 0.100 | |
| 1031-07-8 | Endosulfan sulfate | 0.100 | U | 0.00010 | 0.100 | |
| 72-20-8 | Endrin | 0.100 | U | 0.00010 | 0.100 | |
| 7421-93-4 | Endrin aldehyde | 0.100 | U | 0.00010 | 0.100 | |
| 53494-70-5 | Endrin ketone | 0.100 | U | 0.00010 | 0.100 | |
| 76-44-8 | Heptachlor | 0.050 | U | 0.00010 | 0.050 | |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.00010 | 0.050 | |
| 72-43-5 | Methoxychlor | 0.500 | U | 0.00010 | 0.500 | |
| 8001-35-2 | Toxaphene | 5.00 | U | 0.00010 | 5.00 | |
| 319-84-6 | alpha-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 5103-71-9 | alpha-Chlordane | 0.050 | U | 0.00010 | 0.050 | |
| 319-85-7 | beta-BHC | 0.050 | U | 0.00010 | 0.050 | |
| 319-86-8 | delta-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.00010 | 0.050 | |
| 5103-74-2 | gamma-Chlordane | 0.050 | U | 0.00010 | 0.050 | |

8/30/04 MSE

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: SKSW50FD1010
Lab Code: LA024
Case No.:
Contract:
Matrix: Water
SAS No.:
SDG No.: 204061007
Sample wt/vol: 1000 Units mL
Lab Sample ID: 20406100702
Level: (low/med)
Date Collected: 06/09/04 Time: 1045
% Moisture: decanted (Y/N)
Date Received: 06/10/04
GC Column: DB1701-30M ID: .53 (mm)
Date Extracted: 6/10/04
Concentrated Extract Volume: 1000 (µL)
Date Analyzed: 06/29/04 Time: 1018
Soil Aliquot Volume: (µL)
Dilution Factor: 1 Analyst: DLB
Injection Volume: 1 (µL)
Prep Method:
GPC Cleanup: (Y/N) N pH:
Analytical Method: OLMO 4.2
Prep Batch: 275541 Analytical Batch: 276541
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A
CONCENTRATION UNITS: ug/L
Lab File ID: 2040629/SV3003

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 72-54-8 | 4,4'-DDD | 0.100 | U | 0.00010 | 0.100 | |
| 72-55-9 | 4,4'-DDE | 0.100 | U | 0.00010 | 0.100 | UJ |
| 50-29-3 | 4,4'-DDT | 0.100 | U | 0.00010 | 0.100 | |
| 309-00-2 | Aldrin | 0.050 | U | 0.00010 | 0.050 | |
| 12674-11-2 | Aroclor-1016 | 1.00 | U | 0.00010 | 1.00 | |
| 11104-28-2 | Aroclor-1221 | 2.00 | U | 0.00010 | 2.00 | |
| 11141-16-5 | Aroclor-1232 | 1.00 | U | 0.00010 | 1.00 | |
| 53469-21-9 | Aroclor-1242 | 1.00 | U | 0.00010 | 1.00 | |
| 12672-29-6 | Aroclor-1248 | 1.00 | U | 0.00010 | 1.00 | |
| 11097-69-1 | Aroclor-1254 | 1.00 | U | 0.00010 | 1.00 | |
| 11096-82-5 | Aroclor-1260 | 1.00 | U | 0.00010 | 1.00 | |
| 60-57-1 | Dieldrin | 0.100 | U | 0.00010 | 0.100 | |
| 959-98-8 | Endosulfan I | 0.050 | U | 0.00010 | 0.050 | |
| 33213-65-9 | Endosulfan II | 0.100 | U | 0.00010 | 0.100 | |
| 1031-07-8 | Endosulfan sulfate | 0.100 | U | 0.00010 | 0.100 | |
| 72-20-8 | Endrin | 0.100 | U | 0.00010 | 0.100 | |
| 7421-93-4 | Endrin aldehyde | 0.100 | U | 0.00010 | 0.100 | |
| 53494-70-5 | Endrin ketone | 0.100 | U | 0.00010 | 0.100 | |
| 76-44-8 | Heptachlor | 0.050 | U | 0.00010 | 0.050 | |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.00010 | 0.050 | |
| 72-43-5 | Methoxychlor | 0.500 | U | 0.00010 | 0.500 | |
| 8001-35-2 | Toxaphene | 5.00 | U | 0.00010 | 5.00 | |
| 319-84-6 | alpha-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 5103-71-9 | alpha-Chlordane | 0.050 | U | 0.00010 | 0.050 | |
| 319-85-7 | beta-BHC | 0.050 | U | 0.00010 | 0.050 | |
| 319-86-8 | delta-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 58-89-9 | gamma-BHC (Lindane | 0.050 | U | 0.00010 | 0.050 | |
| 5103-74-2 | gamma-Chlordane | 0.050 | U | 0.00010 | 0.050 | |

8/30/04

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB1701-30M ID: .53 (mm)

Concentrated Extract Volume: 1000 ( µL )

Soil Aliquot Volume: ( µL )

Injection Volume: 1 ( µL )

GPC Cleanup: (Y/N) N pH:

Prep Batch: 275541 Analytical Batch: 276541

*CONCENTRATION UNITS: ug/L*

Sample ID SKSW511010

Contract:

SAS No.: SDG No.: 204061007

Lab Sample ID: 20406100706

Date Collected 06/09/04 Time: 1145

Date Received: 06/10/04

Date Extracted: 6/10/04

Date Analyzed: 06/29/04 Time: 1147

Dilution Factor: 1 Analyst: DLB

Prep Method: 3510

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A

Lab File ID: 2040629/SV3006

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 72-54-8 | 4,4'-DDD | 0.100 | U | 0.00010 | 0.100 | |
| 72-55-9 | 4,4'-DDE | 0.100 | U | 0.00010 | 0.100 | UJ |
| 50-29-3 | 4,4'-DDT | 0.100 | U | 0.00010 | 0.100 | |
| 309-00-2 | Aldrin | 0.050 | U | 0.00010 | 0.050 | |
| 12674-11-2 | Aroclor-1016 | 1.00 | U | 0.00010 | 1.00 | |
| 11104-28-2 | Aroclor-1221 | 2.00 | U | 0.00010 | 2.00 | |
| 11141-16-5 | Aroclor-1232 | 1.00 | U | 0.00010 | 1.00 | |
| 53469-21-9 | Aroclor-1242 | 1.00 | U | 0.00010 | 1.00 | |
| 12672-29-6 | Aroclor-1248 | 1.00 | U | 0.00010 | 1.00 | |
| 11097-69-1 | Aroclor-1254 | 1.00 | U | 0.00010 | 1.00 | |
| 11096-82-5 | Aroclor-1260 | 1.00 | U | 0.00010 | 1.00 | |
| 60-57-1 | Dieldrin | 0.100 | U | 0.00010 | 0.100 | |
| 959-98-8 | Endosulfan I | 0.050 | U | 0.00010 | 0.050 | |
| 33213-65-9 | Endosulfan II | 0.100 | U | 0.00010 | 0.100 | |
| 1031-07-8 | Endosulfan sulfate | 0.100 | U | 0.00010 | 0.100 | |
| 72-20-8 | Endrin | 0.100 | U | 0.00010 | 0.100 | |
| 7421-93-4 | Endrin aldehyde | 0.100 | U | 0.00010 | 0.100 | |
| 53494-70-5 | Endrin ketone | 0.100 | U | 0.00010 | 0.100 | |
| 76-44-8 | Heptachlor | 0.050 | U | 0.00010 | 0.050 | |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.00010 | 0.050 | |
| 72-43-5 | Methoxychlor | 0.500 | U | 0.00010 | 0.500 | |
| 8001-35-2 | Toxaphene | 5.00 | U | 0.00010 | 5.00 | |
| 319-84-6 | alpha-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 5103-71-9 | alpha-Chlordane | 0.050 | U | 0.00010 | 0.050 | |
| 319-85-7 | beta-BHC | 0.050 | U | 0.00010 | 0.050 | |
| 319-86-8 | delta-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.00010 | 0.050 | |
| 5103-74-2 | gamma-Chlordane | 0.050 | U | 0.00010 | 0.050 | |

8/30/04
MSR

FORM I ORG-1

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSW521010

Lab Code: LA024 | Case No.: | Contract:

Matrix: Water | SAS No.: | SDG No.: 204061007

Sample wt/vol: 1000 Units mL | Lab Sample ID: 20406100707

Level: (low/med) | Date Collected: 06/09/04 | Time: 1255

% Moisture: | decanted (Y/N) | Date Received: 06/10/04

GC Column: DB1701-30M ID .53 (mm) | Date Extracted: 6/10/04

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 06/29/04 | Time: 1216

Soil Aliquot Volume: (µL) | Dilution Factor: 1 | Analyst: DLB

Injection Volume: 1 (µL) | Prep Method: 3510

GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2

Prep Batch: 275541 | Analytical Batch: 276541 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS3A

CONCENTRATION UNITS: ug/L | Lab File ID: 2040629/SV3007

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 72-54-8 | 4,4'-DDD | 0.100 | U | 0.00010 | 0.100 | |
| 72-55-9 | 4,4'-DDE | 0.100 | U | 0.00010 | 0.100 | UJ |
| 50-29-3 | 4,4'-DDT | 0.100 | U | 0.00010 | 0.100 | |
| 309-00-2 | Aldrin | 0.050 | U | 0.00010 | 0.050 | |
| 12674-11-2 | Aroclor-1016 | 1.00 | U | 0.00010 | 1.00 | |
| 11104-28-2 | Aroclor-1221 | 2.00 | U | 0.00010 | 2.00 | |
| 11141-16-5 | Aroclor-1232 | 1.00 | U | 0.00010 | 1.00 | |
| 53469-21-9 | Aroclor-1242 | 1.00 | U | 0.00010 | 1.00 | |
| 12672-29-6 | Aroclor-1248 | 1.00 | U | 0.00010 | 1.00 | |
| 11097-69-1 | Aroclor-1254 | 1.00 | U | 0.00010 | 1.00 | |
| 11096-82-5 | Aroclor-1260 | 1.00 | U | 0.00010 | 1.00 | |
| 60-57-1 | Dieldrin | 0.100 | U | 0.00010 | 0.100 | |
| 959-98-8 | Endosulfan I | 0.050 | U | 0.00010 | 0.050 | |
| 33213-65-9 | Endosulfan II | 0.100 | U | 0.00010 | 0.100 | |
| 1031-07-8 | Endosulfan sulfate | 0.100 | U | 0.00010 | 0.100 | |
| 72-20-8 | Endrin | 0.100 | U | 0.00010 | 0.100 | |
| 7421-93-4 | Endrin aldehyde | 0.100 | U | 0.00010 | 0.100 | |
| 53494-70-5 | Endrin ketone | 0.100 | U | 0.00010 | 0.100 | |
| 76-44-8 | Heptachlor | 0.050 | U | 0.00010 | 0.050 | |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.00010 | 0.050 | |
| 72-43-5 | Methoxychlor | 0.500 | U | 0.00010 | 0.500 | |
| 8001-35-2 | Toxaphene | 5.00 | U | 0.00010 | 5.00 | |
| 319-84-6 | alpha-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 5103-71-9 | alpha-Chlordane | 0.050 | U | 0.00010 | 0.050 | |
| 319-85-7 | beta-BHC | 0.050 | U | 0.00010 | 0.050 | |
| 319-86-8 | delta-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.00010 | 0.050 | |
| 5103-74-2 | gamma-Chlordane | 0.050 | U | 0.00010 | 0.050 | |

8/30/06 MSD

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB1701-30M ID: .53 (mm)

Concentrated Extract Volume: 1000 ( µL )

Soil Aliquot Volume: ( µL )

Injection Volume: 1 ( µL )

GPC Cleanup: (Y/N) N pH:

Prep Batch: 275541 Analytical Batch: 276541

*CONCENTRATION UNITS: ug/L*

Sample ID SKSWEB1010

Contract:

SAS No.: SDG No.: 204061007

Lab Sample ID: 20406100708

Date Collected 06/09/04 Time: 1440

Date Received: 06/10/04

Date Extracted: 6/10/04

Date Analyzed: 06/29/04 Time: 1246

Dilution Factor: 1 Analyst: DLB

Prep Method: 3510

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A

Lab File ID: 2040629/SV3008

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 72-54-8 | 4,4'-DDD | 0.100 | U | 0.00010 | 0.100 | |
| 72-55-9 | 4,4'-DDE | 0.100 | U | 0.00010 | 0.100 | UJ |
| 50-29-3 | 4,4'-DDT | 0.100 | U | 0.00010 | 0.100 | |
| 309-00-2 | Aldrin | 0.050 | U | 0.00010 | 0.050 | |
| 12674-11-2 | Aroclor-1016 | 1.00 | U | 0.00010 | 1.00 | |
| 11104-28-2 | Aroclor-1221 | 2.00 | U | 0.00010 | 2.00 | |
| 11141-16-5 | Aroclor-1232 | 1.00 | U | 0.00010 | 1.00 | |
| 53469-21-9 | Aroclor-1242 | 1.00 | U | 0.00010 | 1.00 | |
| 12672-29-6 | Aroclor-1248 | 1.00 | U | 0.00010 | 1.00 | |
| 11097-69-1 | Aroclor-1254 | 1.00 | U | 0.00010 | 1.00 | |
| 11096-82-5 | Aroclor-1260 | 1.00 | U | 0.00010 | 1.00 | |
| 60-57-1 | Dieldrin | 0.100 | U | 0.00010 | 0.100 | |
| 959-98-8 | Endosulfan I | 0.050 | U | 0.00010 | 0.050 | |
| 33213-65-9 | Endosulfan II | 0.100 | U | 0.00010 | 0.100 | |
| 1031-07-8 | Endosulfan sulfate | 0.100 | U | 0.00010 | 0.100 | |
| 72-20-8 | Endrin | 0.100 | U | 0.00010 | 0.100 | |
| 7421-93-4 | Endrin aldehyde | 0.100 | U | 0.00010 | 0.100 | |
| 53494-70-5 | Endrin ketone | 0.100 | U | 0.00010 | 0.100 | |
| 76-44-8 | Heptachlor | 0.050 | U | 0.00010 | 0.050 | |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.00010 | 0.050 | |
| 72-43-5 | Methoxychlor | 0.500 | U | 0.00010 | 0.500 | |
| 8001-35-2 | Toxaphene | 5.00 | U | 0.00010 | 5.00 | |
| 319-84-6 | alpha-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 5103-71-9 | alpha-Chlordane | 0.050 | U | 0.00010 | 0.050 | |
| 319-85-7 | beta-BHC | 0.050 | U | 0.00010 | 0.050 | |
| 319-86-8 | delta-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.00010 | 0.050 | |
| 5103-74-2 | gamma-Chlordane | 0.050 | U | 0.00010 | 0.050 | |

8/30/04 MSW

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract

Lab Code: LA024 Case No. SAS No. SDG No.: 204061007

SOW No.:

| EPA Sample No. | Lab Sample ID. |
|---|---|
| SKSW501010 | 20406100701 |
| SKSW50FD1010 | 20406100702 |
| SKSW50MS1010 | 20406100703 |
| SKSW50DUP1010 | 20406100705 |
| SKSW511010 | 20406100706 |
| SKSW521010 | 20406100707 |
| SKSWEB1010 | 20406100708 |
| SKSW501010 (DISS) | 20406100710 |
| SKSW50FD1010 (DISS) | 20406100711 |
| SKSW50MS1010 (DISS) | 20406100712 |
| SKSW50DUP1010 (DISS) | 20406100713 |
| SKSW511010 (DISS) | 20406100714 |
| SKSW521010 (DISS) | 20406100715 |
| SKSWEB1010 (DISS) | 20406100716 |

| | | |
|---|---|---|
| Were ICP interelement corrections applied ? | Yes / No | YES |
| Were ICP background corrections applied ? | Yes / No | YES |
| If yes-were raw data generated before application of background corrections ? | Yes / No | NO |

Comments:

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 this data contained in this hardcopy data package and in the computer readable data submitted on the diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature

Signature: Mark Peterman Name: Mark Peterman

Date: 7/9/04 Title: Metals Supervisor

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW501010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100701

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | U | | P |
| 7440-38-2 | Arsenic | 5.4 | U | N | P |
| 7440-39-3 | Barium | 53.0 | B | | P |
| 7440-41-7 | Beryllium | 0.2 | U | | P |
| 7440-43-9 | Cadmium | 0.9 | B | | P |
| 7440-47-3 | Chromium | 1.5 | U | | P |
| 7440-50-8 | Copper | 1.2 | U | | P |
| 7439-89-6 | Iron | 102 | | | P |
| 7439-92-1 | Lead | 2.4 | U | | P |
| 7439-97-6 | Mercury | 0.1 | U | | AV |
| 7440-02-0 | Nickel | 1.1 | U | | P |
| 7782-49-2 | Selenium | 4.4 | U | N | P |
| 7440-22-4 | Silver | 0.9 | U | | P |
| 7440-28-0 | Thallium | 6.3 | U | N | P |
| 7440-66-6 | Zinc | 0.7 | U | | P |
| 57-12-5 | Cyanide | 0.5 | U | | AS |

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9/13/04
MSK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW50FD1G10

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No. SDG No.: 204061007

Matrix (soil / water): Water Lab Sample ID: 20406100702

Level (low / med): Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 5.7 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 54.5 | B | | P | |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 1.2 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-50-8 | Copper | 1.6 | B | | P | |
| 7439-89-6 | Iron | 92.2 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.0 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 9.4 | B | N | P | J |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

9/13/04

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW50DUP1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100705

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 51.4 | B | | P | |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 1.1 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-50-8 | Copper | 5.4 | B | | P | |
| 7439-89-6 | Iron | 96.4 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.7 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.8 | B | N | P | J |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

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Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

SKSW511010

INORGANIC ANALYSIS DATA SHEET

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No. SDG No.: 204061007

Matrix ( soil / water ) Water Lab Sample ID: 20406100706

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 4.6 | B | | P |
| 7440-38-2 | Arsenic | 5.4 | U | N | P |
| 7440-39-3 | Barium | 48.9 | B | | P |
| 7440-41-7 | Beryllium | 0.2 | B | | P |
| 7440-43-9 | Cadmium | 0.7 | B | | P |
| 7440-47-3 | Chromium | 1.5 | U | | P |
| 7440-50-8 | Copper | 1.2 | U | | P |
| 7439-89-6 | Iron | 63.6 | B | | P |
| 7439-92-1 | Lead | 2.4 | U | | P |
| 7439-97-6 | Mercury | 0.1 | U | | AV |
| 7440-02-0 | Nickel | 1.3 | B | | P |
| 7782-49-2 | Selenium | 4.4 | U | N | P |
| 7440-22-4 | Silver | 0.9 | U | | P |
| 7440-28-0 | Thallium | 5.3 | U | N | P |
| 7440-66-6 | Zinc | 0.7 | U | | P |
| 57-12-5 | Cyanide | 0.5 | U | | AS |

UJ

9/13/04
pr

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN ILM04.1

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW521010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100707

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 51.6 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 1.1 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 81.7 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.4 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 10.2 | | N | P | J |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

9/13/04
msm

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

SKSWEB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No. SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100708

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | U | | P |
| 7440-38-2 | Arsenic | 5.4 | U | N | P |
| 7440-39-3 | Barium | 0.3 | U | | P |
| 7440-41-7 | Beryllium | 0.2 | U | | P |
| 7440-43-9 | Cadmium | 0.3 | U | | P |
| 7440-47-3 | Chromium | 1.5 | U | | P |
| 7440-50-8 | Copper | 2.1 | B | | P |
| 7439-89-6 | Iron | 9.1 | U | | P |
| 7439-92-1 | Lead | 2.4 | U | | P |
| 7439-97-6 | Mercury | 0.1 | U | | AV |
| 7440-02-0 | Nickel | 1.1 | U | | P |
| 7782-49-2 | Selenium | 4.4 | U | N | P |
| 7440-22-4 | Silver | 0.9 | U | | P |
| 7440-28-0 | Thallium | 6.3 | U | N | P |
| 7440-66-6 | Zinc | 0.7 | U | | P |
| 57-12-5 | Cyanide | 0.5 | U | | AS |

UJ

9/13/04
MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN ILM04.1

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW501010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100710

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 4.7 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 50.9 | B | | P | |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 1.2 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-50-8 | Copper | 1.4 | B | | P | |
| 7439-89-6 | Iron | 36.5 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.8 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | | P | R |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSM50FD1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100711

Level: ( low / med ) Date Received: 06/10/04

% Solids:

Concentration Units (ug/L or mg/kg dr, weight) ug/L

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 52.4 | B | | P | |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 1.1 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-50-8 | Copper | 2.3 | B | | P | |
| 7439-89-6 | Iron | 40.2 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.9 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | | P | R |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

9/13/04 MW

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN ILM04.1

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW50DUP1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100713

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 5.1 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 51.3 | B | | P | |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 1.3 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-50-8 | Copper | 1.4 | B | | P | |
| 7439-89-6 | Iron | 38.2 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.9 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | | P | R |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

9/13/04
[illegible]

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. E[illegible]

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW51010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No. SDG No.: 204061007

Matrix ( soil / water ) Water Lab Sample ID: 20406100714

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 46.2 | B | | P | |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 1.2 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 41.5 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.5 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | | P | R |
| 7440-22-4 | Silver | 2.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-66-6 | Zinc | 2.7 | U | | P | UJ |

9/13/04 MJL

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW521010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100715

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 5.5 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 50.7 | B | | P | |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 1.1 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-50-8 | Copper | 1.5 | B | | P | |
| 7439-89-6 | Iron | 52.3 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.1 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | | P | R |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

9/13/04
MR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO

SKSWEB1010 (DISS)

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No

SAS No

SDG No.: 204061007

Matrix: ( soil / water ) Water

Lab Sample ID: 20406100716

Level: ( low / med )

Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | U | | P |
| 7440-38-2 | Arsenic | 5.4 | U | | P |
| 7440-39-3 | Barium | 0.3 | U | | P |
| 7440-41-7 | Beryllium | 0.3 | B | | P |
| 7440-43-9 | Cadmium | 1.4 | B | | P |
| 7440-47-3 | Chromium | 1.5 | U | | P |
| 7440-50-8 | Copper | 1.2 | U | | P |
| 7439-89-6 | Iron | 22.1 | B | | P |
| 7439-92-1 | Lead | 2.4 | U | | P |
| 7439-97-6 | Mercury | 0.1 | U | | AV |
| 7440-02-0 | Nickel | 2.4 | B | | P |
| 7782-49-2 | Selenium | 4.4 | U | | P |
| 7440-22-4 | Silver | 0.9 | U | | P |
| 7440-28-0 | Thallium | 6.5 | B | | P |
| 7440-66-6 | Zinc | 0.7 | U | | P |

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9/13/04
mst

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

# CHAIN OF CUSTODY RECORD

| Lab use only: Client Name | Client # | Workorder # | Due Date |
|---|---|---|---|
| Earth Tech | 4342 | 204061007 | 6/24/04 |

**Report to:**
Client: Earth Tech
Address: 200 Vine St
Wilder KY 41076
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

**Bill to:**
Client:
Address: Glenn Springs Industrial
Contact:
Phone:
Fax:

P.O. Number: 54280-01
Project Name/Number: Skinner Landfill 2nd Qtr 04
Sampled By: Ryan Hambra / Pat Higgins

Analytical Requests & Method

Lab use only:
Custody Seal used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 4

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | Preservatives | No Containers | Volatiles | Semi Volatiles | Pesticides | PCB's | Total Metals | Dissolved Metals | Cyanide | | | | | Remarks: | Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6/9/04 | W | 1015 | | X | SHSW50 1010 | HCL | 3 | X | | | | | | | | | | | Refer to | 1 |
| | | 1045 | | | SHSW50 FD 1010 | | | | | | | | | | | | | | Table 7 | 2 |
| | | 1100 | | | SHSW50 MS 1010 | | | | | | | | | | | | | | (TCL) and | 3 |
| | | 1110 | | | SHSW50 MSD 1010 | | | | | | | | | MSD - 4 | | | | | Table 8 (TAC) | dup-5 |
| | | 1145 | | | SHSW51 1010 | | | | | | | | | | | | | | of the final | 6 |
| | | 1235 | | | SHSW52 1010 | | | | | | | | | | | | | | O&M Plan for | 7 |
| | | 1440 | | | SHSWEB 1010 | Various | 10 | | X | X | X | X | X | X | | | | 16 | the list of | 8 |
| | | | | | SHSWTB 1010 | HCL | 3 | | | | | | | | | | | | analytes | 9 |

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| [signature] | Fed Ex | 6/9/04 | 1700 |
| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
| FedEx # 8425 9530 7715 | [signature] | 6/10/04 | 0930 |
| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
| | | | |

Note: Samples sent via FED EX
Airbill #: 8425 9530 7715 0215

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

000624

GCAL-06 11/...

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GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

# CHAIN OF CUSTODY RECORD

Lab use only

| Client Name | Client # | Workorder # | Due Date |
|---|---|---|---|
| Earth Tech | 4342 | 204061007 | 6/24/04 |

**Report to:**
Client: Earth Tech
Address: 200 Vine St
Wilder Ky 41076
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

**Bill to:**
Client:
Address: Glenn
Contact: Springs
Phone: Contract
Fax:

P.O. Number: 54280-01
Project Name/Number: Skinner Landfill 2 Qtr 04
Sampled By: Ryan Hamilton / Pat Higgins

Analytical Requests & Method

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | Preservatives | No Containers | Volatiles | Semi Volatiles | Pesticides | PCBs | Total Metal | Dissolved metals | Cyanide | | | Class | Remarks: | Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W | 6/9/04 | 1015 | | X | SKSW501010 | Various | 7 | | X | X | X | X | X | X | | | | Refer to Table 7 (TCL) and Table 8 (TAL) of the O&M Plan for the list of analytes | 6/10 |
| W | ↓ | 1100 | | ↓ | SKSW50MS1010 | ↓ | ↓ | | X | X | X | X | X | X | | | | | 10 |

Lab use only:
Custody Seal
used ☒ yes ☐ no
in tact ☒ yes ☐ no
Temperature °C 4

000625

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| [signature] | Fed EX | 6/9/04 | 1700 |
| Fed Ex # 8425 9530 7715 | [signature] | 6/10/04 | 0930 |
| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
| | | | |

Note: Samples sent via FED EX Airbill # 8425 9530 7715 0 5

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GCAL-06 11-98

GCAL

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

# CHAIN OF CUS[illegible] RECORD

| Lab use only | | | |
|---|---|---|---|
| Earth Tech | 4342 | 204061007 | 6/24/04 |
| Client Name | Client # | Workorder # | Due Date |

**Report to:**
Client: Earth Tech
Address: 200 Vine St
Wilder Ky 41076
Contact: Pat Higgins
Phone: 859 442 2300
Fax: 859 442 2311

**Bill to:**
Client:
Address: Glenn Springs Contract
Contact:
Phone:
Fax:

P.O. Number: 54280-01
Project Name/Number: Skinner Landfill 2nd Qtr 04
Sampled By: Ryan Hubbard Pat Higgins

Analytical Requests & Method

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | Preservatives | No Containers | Volatiles | Semi Volatile | Pesticides | PCB's | Total Metals | Dissolved Metals | Cyanide | | | | Remarks: | Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W | 6/9/04 | 1045 | | X | SKSW50FD1010 | Various | 7 | | X | X | X | X | X | X | | | | Refer to | 6/10 |
| W | ↓ | 1110 | | X | SKSW50MSD1010 | ↓ | ↓ | | X | X | X | X | X | X | | | | Table 7 (TCL) | -11 |
| | | | | | | | | | | | | | | | | | | and Table 8 | 13 |
| | | | | | | | | | | | | | | | | | | (TAL) of the | |
| | | | | | | | | | | | | | | | | | | final O&M | |
| | | | | | | | | | | | | | | | | | | plan for the | |
| | | | | | | | | | | | | | | | | | | list of analytes | |

Lab use only:
Custody Seal
used ☑ yes ☐ no
in tact ☑ yes ☐ no cf
Temperature °C

000626

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| [signature] | Fed Ex | 6/4/04 | 1700 |
| Fed Ex # 8425 9530 7715 | [signature] | 6/10/04 | 0930 |
| | | | |

Note: Samples sent via Fed Ex
Airbill #: 8425 9530 7715
0215

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WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

# GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

## CHAIN OF CUSTODY RECORD

| Lab use only | Client Name | Client # | Workorder # | Due Date |
|---|---|---|---|---|
| | Earth Tech | 4342 | 2004 06 1007 | 6/24/04 |

**Report to:**
Client: Earth Tech
Address: 200 Wise St
Lilder by 91676
Contact: Pat Higgins
Phone: 859 442-2300
Fax: 859-442-2311

**Bill to:**
Client:
Address: Glenn
Contact: Spring
Phone: Lawson
Fax:

P.O. Number: 34280 01
Project Name/Number: Skinner Landfill 2 Qtr 2004
Sampled By: Ryan Hooker / Pat Higgins

Analytical Requests & Method

Lab use only:
Custody Seal used ☑ yes ☐ no
Intact ☑ yes ☐ no
Temperature °C 4

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | Preservatives | No Containers | Volatiles | Semi Volatiles | Pesticides | PCBs | Total Metals | Dissolved Metals | Cyanide | Remarks | Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W | 6/1/04 | 1135 | | X | SLSW 51 1010 | Various | 7 | X | X | X | X | X | X | | Refer to Table 7 (TCL) and Table 8 (TAL) of the final O&M Plan for the list of analytes | |
| W | ↓ | 1255 | | ↓ | SLSW 52 1010 | ↓ | ↓ | X | X | X | X | X | X | | | |

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| [signature] | Fed Ex | 6/4/04 | 1700 |
| FedEx # 8425 0530 7815 | [signature] | 6/10/04 | 0930 |
| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |

Note: Samples sent via FED EX Airbill #. [illegible]

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

029000

WHITE CLIENT YELLOW FILE PINK LAB

GCAL 06 11/96

# DATA VALIDATION REPORT

# FOR

# SKINNER LANDFILL SITE

**EARTH TECH: PROJECT NUMBER 54280**

**LABORATORY REPORT NUMBER 204060812**

**PROJECT MANAGER: Ron Rolker**

**Date: September 2, 2004**

**Data Validator: Mark Kromis**

# APPENDIX C
# LIST OF ACRONYMS

| | |
|---|---|
| BFB | Bromofluorobenzene |
| CC | Continuing Calibration |
| CCV | Continuing Calibration Verification |
| CCB | Continuing Calibration Blanks |
| CLP | Contract Laboratory Program |
| CRDL | Contract Required Detection Limit |
| DFTPP | Decafluorotriphenylphosphine |
| GC/MS | Gas Chromatograph/Mass Spectrometer |
| IC | Initial Calibration |
| ICB | Initial Calibration Blank |
| IDL | Instrument Detection Limit |
| ICP | Inductively Coupled Plasma |
| ICS | Interference Check Sample |
| ICV | Initial Calibration Verification |
| ILM | Inorganic Analysis Multi-Media Multi-Concentration |
| INDAM | Individual A Mixture |
| INDBM | Individual B Mixture |
| mg/L | milligrams per liter |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| OLC | Organic Analysis Low Concentration |
| OLM | Organic Analysis Multi-Media Multi-Concentration |
| %D | Percent Difference |
| % RSD | Percent Relative Standard Deviation |
| PB | Preparation Blanks |
| QC | Quality Control |
| RF | Response Factor |
| RPD | Relative Percent Difference |
| RRF | Relative Response Factor |
| SDG | Sample Delivery Group |
| SOW | Statement of Work |
| µg/L | micrograms per liter |
| US EPA | United States Environmental Protection Agency |
| VOC | Volatile Organic Compounds |
| VTSR | Validated Time of Sample Receipt |

# DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204060812 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in June 2004, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Group (SDG) 204060812.

| GCAL # | Sample Description |
|---|---|
| 20406081201 | SKGW06R1010 |
| 20406081202 | SKGW07R1010 |
| 20406081203 | SKGW631010 |
| 20406081204 | SKGW63FD1010 |
| 20406081205 | SKGW611010 |
| 20406081206 | SKGW61MS1010 |
| 20406081208 | SKGW61DUP1010 |
| 20406081210 | SKGW06R1010 (DISS) |
| 20406081211 | SKGW07R1010 (DISS) |
| 20406081212 | SKGW631010 (DISS) |
| 20406081213 | SKGW611010 (DISS) |
| 20406081214 | SKGW61MS1010 (DISS) |
| 20406081215 | SKGW61DUP1010 (DISS) |
| 20406081216 | SKGW63FD1010 (DISS) |

## INTRODUCTION

Analyses of metals were performed according to Contract Laboratory Program (CLP)-Inorganic Analysis Multi-media Multi-concentration ILM04.1 Statement of Work (SOW). Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.
The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified. The associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Calibration
   A. Initial Calibration (IC)
   B. Continuing Calibration (CC)
3. Blanks
4. Inductively Coupled Plasma (ICP) Interference Check Sample
5. Laboratory Control Sample (LCS)
6. Duplicate Analysis
7. Spike Sample Analysis
8. ICP Serial Dilution
9. System Performance
10. Documentation
11. Overall Assessment

## 1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples undergoing CLP protocol. Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. CALIBRATION

### A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

### B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

## 3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Preparation Blanks (PB) were analyzed at the appropriate frequencies. No constituents were detected in the ICB, CCB, and PB blanks above the corresponding Contract Required Detection Limit (CRDL) with the exception of Zinc in the CCB's. As per the National Functional Guidelines; sample results greater than the IDL but less than 5 times the amount found in any blank should be qualified as (U). Technically the run should have been terminated or at a minimum the samples should have been re-analyzed for Zinc.

## 4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

## 5. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

## 6. DUPLICATE ANALYSIS

The laboratory used sample SKGW611010 for the duplicate sample. The Relative Percent Difference (RPD) between the sample and duplicate results for the dissolved fraction were within the acceptance criteria (<20%) for all target compounds.

The Relative Percent Difference (RPD) between the sample and duplicate results for the total fraction were within the acceptance criteria (<20%) for all target compounds with the exception of Arsenic, Barium, Chromium, Copper, Iron, Lead, Nickel, and Zinc.

The Relative Percent Difference (RPD) between the sample and duplicate results in the dissolved fraction were within the acceptance criteria (<20%) for all target compounds with the exception of Barium, Iron, and Nickel.

As per the National Functional Guidelines, if the results from a duplicate analysis for a particular analyte falls outside the appropriate fixed control windows; qualify the results for that analyte in all associated samples of the same matrix as estimated (J). Some of the calculations for the RPD between the sample and duplicate were reformed incorrectly. The data validator corrected the deficiencies and made the corrections on the Form VI's.

## 7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SKGW611010 for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) with the exception of Arsenic (127%) and Thallium (129%) in the total fraction. As per the National Functional Guidelines: if the percent recovery is greater than 125% qualify detected results for that analyte with "J".

## 8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 50 times above the IDL, its serial dilution analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interference's exist due to matrix effects. The serial dilution percent differences were within the acceptance criteria for all target analytes.

## 9. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

## 10. DOCUMENTATION

The documentation appeared accurate and in order.

## 11. OVERALL ASSESSMENT

The percent recoveries for Chromium in the Contract Required Detection Limit (CRDL) standards were 79.1%, 74.1% and 91.8%. The percent recoveries for Lead in the Contract Required Detection Limit (CRDL) standards were 99.2%, 101.9%, and 63.7%. The percent recoveries for Selenium in the Contract Required Detection Limit (CRDL) standards were 76.7%, 99.5%, 115.2%, and 138.4%.

The percent recoveries for Zinc in the Contract Required Detection Limit (CRDL) standards were 90.6%, 68.5%, 53.6%, and 53.4%. The detected Selenium results greater than the IDL but less than two times the CRDL were qualified with as estimated with "J". The detected Chromium, Lead, and Zinc results greater than the IDL but less than two times the CRDL were qualified with as estimated with "J" and the non-detected results were qualified with "UJ". The results are acceptable with the validator-added qualifiers.

# DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204060812 SEMIVOLATILE ORGANICS

Validation of the Gas Chromatograph/Mass Spectrometer (GC/MS) semi-volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in June 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. The results were reported by GCAL under SDG 204060812.

| GCAL # | Sample Description |
|---|---|
| 20406081201 | SKGW06R1010 |
| 20406081202 | SKGW07R1010 |
| 20406081203 | SKGW631010 |
| 20406081204 | SKGW63FD1010 |
| 20406081205 | SKGW611010 |
| 20406081206 | SKGW61MS1010 |
| 20406081207 | SKGW61MSD1010 |

## INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various data qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the semivolatile data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Internal Standards Performance
8. Compound Identification
9. Constituent Quantitation and Reported Detection Limits
10. System Performance
11. Documentation
12. Overall Assessment

## 1. HOLDING TIMES

All samples were initially extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +- 2°C.

## 2. GC/MS TUNING

The samples were analyzed on a single GC/MS system, identified as MSSV3. One decafluorotriphenylphosphine (DFTPP) tune was run representing the shift in which the standards and samples were analyzed. The DFTPP tune is acceptable.

## 3. CALIBRATION

### A. Initial Calibration

One IC dated 6/15/04 was analyzed in support of the semivolatile sample analyses. Documentation of the IC was present in the data package, and the Relative Response Factor (RRF), as well as percent % RSD values were accurately reported for all target compounds. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all semi-volatile compounds. The RRF's and the average RRF were within the acceptance criteria specified in the method for all reported analytes with the exception of 4-Chloroaniline. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Diethylphthalate (34.5%). The lowest point of the calibration curve was dropped for Diethylphthalate and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Diethylphthalate were not detected in the associated samples therefore data qualification was not required.

As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

### B. Continuing Calibration

One CC dated 6/15/04 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC dated 6/15/04 were within the acceptance criteria with the exception of 4-Chloroaniline. The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 6/15/04 were within the acceptance criteria with the exception the %D for 2,4-Dintrophenol. As per the National Functional Guidelines, if the %D exceeds the acceptance criteria qualify detected results for that analyte with "J" and non-detected results for that analyte with "UJ". The 4-Chloroaniline results were previously qualified under Section 3A titled "Initial calibration".

## 4. BLANKS

Two laboratory semivolatile methods blanks were analyzed with this SDG. The results are summarized below.

<u>Method Blank (0610SBLK)</u>

Bis-(2-ethylhexyl) phthalate (131 ppb) and Di-n-butylphthalate (0.529) were detected in method blank extracted on 6/10/04.

Method Blank (0617SBLK)

Bis-(2-ethylhexyl) phthalate (1 59 ppb) was detected in method blank extracted on 6/17/04

## 5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds were recovered within acceptable control limits.

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

Sample SKGW611010 was submitted for MS MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of the 4-Nitorphenol and Pentachlorophenol in the MS MSD and 2,4-Dinitrotoluene in the MSD. The %RPD between the MS/MSD are within the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD data alone.

## 7. INTERNAL STANDARDS PERFORMANCE

Internal standard areas and retention times were within acceptable limits for the reported semivolatile sample analyses.

## 8. COMPOUND IDENTIFICATION

All reported semivolatile constituents were correctly identified with supporting chromatograms present in the data package.

## 9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for semivolatile constituents with the exception of the results for Bis-(2-ethylhexyl) phthalate in the re-analyzed samples. The data validator re-calculated the constituent quantitations and reported detection limits, then manually made the correction on the Form 1's.

## 10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data submitted for review.

## 11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the preparation method off of the CLP Form 1's and the Date Extracted off of the CLP Form 1's and IV's.

The data validator manually wrote the preparation method and Date Extracted on the appropriate forms. GCAL also left the "B" qualifier off of the CLP Form 1's for the compound Di-n-butylphthalate therefore the data validator inserted a "B" qualifier in the "Q" column of the CLP Form 1's. The "B" qualifier indicates that the analyte was detected in the associated method blank.

## 12. OVERALL ASSESSMENT

It should be noted that the laboratory re-extracted the samples and extraction blank on 6/17/04 due to the high concentration of Bis-(2-ethylhexyl) phthalate (131 ppb) that was detected in original method blank extracted on 6/10/04. The concentration of Bis-(2-ethylhexyl) phthalate in the re-extracted blank was 1.59 ppb which was approximately that same concentration of Bis-(2-ethylhexyl) phthalate that was detected in some of the samples. The samples were re-extracted outside of the recommended holding time therefore the data validator suggest using the results from the initial extraction. The results are acceptable with the validator-added qualifiers.

## DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204060812 VOLATILE ORGANIC

Validation of the GC/MS volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in June 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204060812.

| GCAL # | Sample Description |
|---|---|
| 20406081201 | SKGW06R1010 |
| 20406081202 | SKGW07R1010 |
| 20406081203 | SKGW631010 |
| 20406081204 | SKGW63FD1010 |
| 20406081205 | SKGW611010 |
| 20406081206 | SKGW61MS1010 |
| 20406081207 | SKGW61MSD1010 |
| 20406081209 | SKTB1010 |

## INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Low Concentration OLC02.0 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The volatiles data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Laboratory Control Sample
8. Internal Standards Performance
9. Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. System Performance
12. Documentation
13. Overall Assessment

## 1. HOLDING TIMES

All samples for Volatile Organic Compounds (VOC) analyses were analyzed within the 14-day technical holding time and the 10-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. GC/MS TUNING

The samples were analyzed on one GC/MS system, identified as MSV1. One bromofluorobenzene (BFB) tune was run. The BFB tune is acceptable.

## 3. CALIBRATION

### A. Initial Calibration

One IC dated 6/16/04 was analyzed on instrument MSV1 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards is present in the data package, and RRF's as well as %RSD values were accurately reported. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all volatile compounds. The %RSD's were within the acceptance criteria specified in the method for all target analytes.

The RRF's and the average RRF for the IC dated 6/16/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone, 2-Butanone, and 2-Hexanone. The %RSD's were within the acceptance criteria specified in the method for all target analytes with exception of Acetone. As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

### B. Continuing Calibration

One CC dated 6/16/04 was analyzed on instrument MSV1 in support of the volatile sample analyses reported in the data submissions. The percent difference (%D) between the average RRF's and the CC RF's were within the acceptance criteria for all target analytes. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone and 2-Butanone associated with the CC dated 6/16/04. The Acetone and 2-Butanone results were previously qualified under section 3A above.

## 4. BLANKS

One laboratory volatile method blanks, storage blank, and Trip Blank were analyzed with this SDG. The results are summarized below.

MB173742

There was no target compounds detected in the method blank analyzed on 6/16/04.

Storage Blank (VHBLK01)

There were no target compounds detected in the storage blank analyzed on 6/16/04.

Trip Blank (SKTB1010)

Sulfur dioxide was detected as a TIC at a concentration of 471 ppb.

## 5. SYSTEM MONITORING COMPOUND RECOVERY

All reported volatile system monitoring compounds were recovered within acceptable control limits (80%-120%) for all samples.

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKGW611010 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria except for 1,2-Dichloroethane associated with the MS and cis-1,3-Dichloropropene associated with the MS/MSD. The %RPD between the MS/MSD were within the acceptance criteria. As per the National Functional Guidelines there is no action taken on MS/MSD data alone.

## 7. LABORATORY CONTROL SAMPLE

A LCS/LCS duplicate and a LCS were analyzed in conjunction with this SDG. Recoveries were within the control limit for all constituents.

## 8. INTERNAL STANDARDS PERFORMANCE

Internal Standard (IS) areas and retention times were within acceptable limits for the reported volatile sample analyses.

## 9. COMPOUND IDENTIFICATION

All reported VOCs were correctly identified with supporting chromatograms present in the data package.

## 10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for VOCs.

## 11. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

## 12. DOCUMENTATION

The documentation appeared accurate and in order.

## 13. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

## DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 204060812 PESTICIDES

Validation of the Gas Chromatography (GC) pesticides data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in June 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204060812.

| GCAL # | Sample Description |
|---|---|
| 20406081201 | SKGW06R1010 |
| 20406081202 | SKGW07R1010 |
| 20406081203 | SKGW631010 |
| 20406081204 | SKGW63FD1010 |
| 20406081205 | SKGW611010 |
| 20406081206 | SKGW61MS1010 |
| 20406081207 | SKGW61MSD1010 |

## INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the pesticide data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Gas Chromatograph/Electronic Capture Detector (GC/ECD) Instrument Performance Check
3. IC
4. Calibration Verification
5. Blanks
6. Surrogate Spikes
7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)
8. Pesticide Cleanup Checks
9. Target Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. Documentation
12. Overall Assessment

## 1. HOLDING TIMES

All samples were extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. GC/ECD INSTRUMENT PERFORMANCE CHECK

The Performance Evaluation Mixture (PEM) was analyzed at the correct frequency. Absolute retention times were within limits.

The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check.

The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM). The percent breakdown for both 4,4-DDT and Endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4-DDT and Endrin in each PEM was less than 30.0% for both GC columns.

## 3. INITIAL CALIBRATION

Individual standard mixtures A and B were analyzed at the correct frequencies and concentrations. The percent resolution criterion was met for Individual standard mixtures A and B.

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20% with the exception of alpha-BHC (23.4%), delta-BHC (27.0), and 4,4'-DDE (20.7%) on column DB-1701. As per the National Functional Guidelines, if the %RSD criteria are not met for the compound(s) being quantified, qualify all associated positive quantitative results with "J" and the sample quantitation limits for non-detected target compounds with "UJ".

The multi-component target compounds were analyzed separately on both columns at a single concentration level. Retention times were determined from a minimum of three peaks.

## 4. CALIBRATION VERIFICATION

Absolute retention times were within appropriate time retention windows

## 5. BLANKS

One laboratory method blank was analyzed with this SDG. The results are summarized below.

<u>Method Blank 172726</u>

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 6/10/04.

## 6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria for all samples.

## 7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKGW611010 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria. The %RPD between the MS/MSD are within the acceptance criteria.

## 8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup.

## 9. TARGET COMPOUND IDENTIFICATION

All reported pesticide data were correctly identified with supporting chromatograms present in the data package.

## 10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for pesticide constituents.

## 11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the Date Extracted off of the CLP Form 1's therefore the data validator inserted the Date Extracted on the CLP Form 1's.

## 12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

## REFERENCES

US EPA, 1994. *National Functional Guidelines for Inorganic Data Review.*

US EPA, 1999. *National Functional Guidelines for Organic Data Review.*

NELAP CERTIFICATE NUMBER 01955

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC.

# ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

**Report Date** 06/29/2004

**GCAL Report** 204060812

| | |
|---|---|
| ***Deliver To*** | Earth Tech<br>200 Vine Street<br>Wilder, KY 41076<br>859-442-2300 |
| ***Attn*** | Pat Higgins |

***Customer*** Earth Tech

***Project*** Skinner Landfill

000001

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402 • Phone 225.769-4900 • Fax 225.767.5717

# CASE NARRATIVE

**Client:** Earth Tech **Report:** 204060812

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

## SEMI-VOLATILES MASS SPECTROMETRY

In prep batch 275540, the method blank (172721) had a hit for bis(2-ethylhexyl)phthalate. The samples were re-extracted outside of holding time. This data is being submitted as additional data.

In the prep batch 275540, the MS/MSD exhibited sporadic recovery failures. These recoveries were within limits in the LCS. This is attributed to matrix interference.

## METALS

In the ILM04.1 - CLP Metals analysis for prep batch 275562, the MS recoveries were outside the control limits for Arsenic and Thallium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with recoveries of 91% for Arsenic and 113% for Thallium. The MS recovery is not applicable for Iron because the sample concentration is greater than four times the spike concentration. The Sample/Duplicate RPD for Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Iron, Lead, Nickel, and Zinc are not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

The Sample/Duplicate RPD for Barium, Iron, and Nickel for prep batch 275564 are not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

# Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

**Common Abbreviations Utilized in this Report**

| | |
|---|---|
| **ND** | Indicates the result was Not Detected at the specified RDL |
| **DO** | Indicates the result was Diluted Out |
| **MI** | Indicates the result was subject to Matrix Interference |
| **TNTC** | Indicates the result was Too Numerous To Count |
| **SUBC** | Indicates the analysis was Sub-Contracted |
| **FLD** | Indicates the analysis was performed in the Field |
| **PQL** | Practical Quantitation Limit |
| **MDL** | Method Detection Limit |
| **RDL** | Reporting Detection Limit |
| **00:00** | Reported as a time equivalent to 12:00 AM |

**Reporting Flags Utilized in this Report**

| | |
|---|---|
| **J** | Indicates an estimated value |
| **U** | Indicates the compound was analyzed for but not detected |
| **B** | (ORGANICS) Indicates the analyte was detected in the associated Method Blank |
| **B** | (INORGANICS) Indicates the results between the RDL and MDL |

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reporduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Curtis Ekker

CURTIS EKKER
DATA VALIDATION MANAGER
**GCAL REPORT** 204060812

THIS REPORT CONTAINS 545 PAGES.

# Report Sample Summary

| GCAL ID | Client ID | Matrix | Collect Date/Time | Receive Date/Time |
|---|---|---|---|---|
| 20406081201 | SKGW06R1010 | Water | 06/07/2004 10:20 | 06/08/2004 09:30 |
| 20406081202 | SKGW07R1010 | Water | 06/07/2004 10:58 | 06/08/2004 09:30 |
| 20406081203 | SKGW631010 | Water | 06/07/2004 12:58 | 06/08/2004 09:30 |
| 20406081204 | SKGW63FD1010 | Water | 06/07/2004 13:35 | 06/08/2004 09:30 |
| 20406081205 | SKGW611010 | Water | 06/07/2004 14:32 | 06/08/2004 09:30 |
| 20406081206 | SKGW61MS1010 | Water | 06/07/2004 14:43 | 06/08/2004 09:30 |
| 20406081207 | SKGW61MSD1010 | Water | 06/07/2004 14:56 | 06/08/2004 09:30 |
| 20406081208 | SKGW61DUP1010 | Water | 06/07/2004 14:56 | 06/08/2004 09:30 |
| 20406081209 | SKTB1010 | Water | 06/07/2004 00:00 | 06/08/2004 09:30 |
| 20406081210 | SKGW06R1010 (DISS) | Water | 06/07/2004 10:20 | 06/08/2004 09:30 |
| 20406081211 | SKGW07R1010 (DISS) | Water | 06/07/2004 10:58 | 06/08/2004 09:30 |
| 20406081212 | SKGW631010 (DISS) | Water | 06/07/2004 12:58 | 06/08/2004 09:30 |
| 20406081213 | SKGW611010 (DISS) | Water | 06/07/2004 14:32 | 06/08/2004 09:30 |
| 20406081214 | SKGW61MS1010 (DISS) | Water | 06/07/2004 14:32 | 06/08/2004 09:30 |
| 20406081215 | SKGW61DUP1010 (DISS) | Water | 06/07/2004 14:32 | 06/08/2004 09:30 |
| 20406081216 | SKGW63FD1010 (DISS) | Water | 06/07/2004 13:35 | 06/08/2004 09:30 |

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW06R1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No.: SDG No.: 204060812

Matrix (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20406081201

Level: (low/med) Lab File ID: 2040616/T8034

% Moisture: not dec. Date Collected: 06/07/04 Time: 1020

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/08/04

Instrument ID: MSV1 Date Analyzed: 06/16/04 Time: 1934

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 275809

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS:* ug/L

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL | |
|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 | R |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 | R |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 | |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 | R |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 | |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 | |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 | |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 | |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 | |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 | |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 | |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 | |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 | |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 | |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 | |

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW06R1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20406081201

Level: (low/med)

Lab File ID: 2040616/T8034

% Moisture: not dec.

Date Collected: 06/07/04 Time: 1020

GC Column: DB-624-30M ID: .53 (mm

Date Received: 06/08/04

Instrument ID: MSV1

Date Analyzed: 06/16/04 Time: 1934

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 275809

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW06R1010

Lab Name: GCAL Contract

Lab Code: LA024 Case No. SAS No. SDG No.: 204060812

Matrix: Water Lab Sample ID: 20406081201

Sample wt/vol: Units Lab File ID

Level: (low/med) Date Collected: 06/07/04 Time: 1020

% Moisture: not dec. Date Received: 06/08/04

GC Column: DB-624-30M ID: .25 (mm Date Analyzed: 06/16/04 Time: 1934

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

*Number TICs Found: 0*

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1 | | No tics detected | | | |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW07R1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20406081202

Level: (low/med)

Lab File ID: 2040616/T8035

% Moisture: not dec.

Date Collected: 06/07/04 Time: 1058

GC Column: DB-624-30M ID: .53 (mm

Date Received: 06/08/04

Instrument ID: MSV1

Date Analyzed: 06/16/04 Time: 1957

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 2758C9

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL | |
|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 | R |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 | R |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 | |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 | R |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 | |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 | |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 | |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 | |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 | |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 | |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 | |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 | |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 | |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 | |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 | |

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW07R1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID 20406081202

Level (low/med) Lab File ID: 2040616/T8035

% Moisture: not dec. Date Collected 06/07/04 Time: 1058

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/08/04

Instrument ID: MSV1 Date Analyzed 06/16/04 Time: 1957

Soil Extract Volume: (µL) Dilution Factor 1 Analyst: RJO

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 275809

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS:* *ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW07R1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: Water Lab Sample ID: 20406081202

Sample wt/vol: Units: Lab File ID:

Level: (low/med) Date Collected: 06/07/04 Time: 1058

% Moisture: not dec. Date Received: 06/08/04

GC Column: DB-624-30M ID: .25 (mm Date Analyzed: 06/16/04 Time: 1957

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

*Number TICs Found:* 0

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1. | | No tics detected | | | |

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW631010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix (soil/water): Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20406081203

Level (low/med): Lab File ID: 2040616/T8036

% Moisture: not dec. Date Collected: 06/07/04 Time: 1258

GC Column: DB-624-30M ID: 53 (mm) Date Received: 06/08/04

Instrument ID: MSV1 Date Analyzed: 06/16/04 Time: 2021

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 275809

Analytical Method: OLCO 2.1

CONCENTRATION UNITS: ug/L

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL | |
|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 | R |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 | R |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 | |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 | R |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 | |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 | |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 | |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 | |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 | |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 | |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 | |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 | |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 | |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 | |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 | |

9/2/04 MSL

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW631010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20406081203

Level: (low/med)

Lab File ID: 2040616/T8036

% Moisture: not dec.

Date Collected: 06/07/04 Time: 1258

GC Column: DB-624-30M ID: .53 (mm

Date Received: 06/08/04

Instrument ID: MSV1

Date Analyzed: 06/16/04 Time: 2021

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 275809

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW631010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: Water Lab Sample ID: 20406081203

Sample wt/vol: Units Lab File ID: 2040616/T8036

Level: (low/med) Date Collected: 06/07/04 Time: 1258

% Moisture: not dec. Date Received: 06/08/04

GC Column: DB-624-30M ID: 53 (mm Date Analyzed: 06/16/04 Time: 2021

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

*Number TICs Found:* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1 | 60-29-7 | Ether | 3.545 | 2.16 | |

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW63FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20406081204

Level: (low/med)

Lab File ID: 2040616/T8037

% Moisture: not dec.

Date Collected: 06/07/04 Time: 1335

GC Column: DB-624-30M ID: .53 (mm

Date Received: 06/08/04

Instrument ID: MSV1

Date Analyzed: 06/16/04 Time: 2045

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 275809

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL | |
|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 | R |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 | R |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 | |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 | R |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 | |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 | |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 | |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 | |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 | |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 | |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 | |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 | |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 | |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 | |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 | |

9/2/04 MSV

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW63FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix (soil/water): Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20406081204

Level (low/med): Lab File ID: 2040616/T8037

% Moisture: not dec. Date Collected: 06/07/04 Time: 1335

GC Column: DB-624-30M ID: .53 (mm) Date Received: 06/08/04

Instrument ID: MSV1 Date Analyzed: 06/16/04 Time: 2045

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 275809

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS:* ug/L

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW63FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: Water Lab Sample ID: 20406081204

Sample wt/vol: Units: Lab File ID: 2040616/T8037

Level: (low/med) Date Collected: 06/07/04 Time: 1335

% Moisture: not dec. Date Received: 06/08/04

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 06/16/04 Time: 2045

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: ( µL

Soil Aliquot Volume: ( µL

*Number TICs Found:* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1 . | 60-29-7 | Ether | 3.532 | 1.81 | |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW611010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix (soil/water): Water

Sample wt/vol: 25 (g/mL) mL

Lab Sample ID: 20406081205

Level (low/med):

Lab File ID: 2040616/T8029

% Moisture: not dec.

Date Collected: 06/07/04 Time: 1432

GC Column: DB-624-30M ID: .53 (mm)

Date Received: 06/08/04

Instrument ID: MSV1

Date Analyzed: 06/16/04 Time: 1735

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 275809

CONCENTRATION UNITS: ug/L

Analytical Method: OLCO 2.1

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL | |
|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 | R |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 | R |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 | |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 | R |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 | |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 | |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 | |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 | |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 | |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 | |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 | |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 | |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 | |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 | |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 | |

7/2/04 MSL

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW611010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20406081205

Level: (low/med)

Lab File ID: 2040616/T8029

% Moisture: not dec.

Date Collected: 06/07/04 Time: 1432

GC Column: DB-624-30M ID: .53 (mm

Date Received: 06/08/04

Instrument ID: MSV1

Date Analyzed: 06/16/04 Time: 1735

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 275809

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW611010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No. SDG No.: 204060812

Matrix: Water Lab Sample ID: 20405081205

Sample wt/vol: Units Lab File ID:

Level: (low/med) Date Collected: 06/07/04 Time: 1432

% Moisture: not dec. Date Received: 06/08/04

GC Column: DB-624-30M ID 25 (mm Date Analyzed: 06/16/04 Time: 1735

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

*Number TICs Found:* 0

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1 | | No tics detected | | | |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKTB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL

Lab Sample ID: 20406081209

Level: (low/med)

Lab File ID: 2040616/T8030

% Moisture: not dec.

Date Collected: 06/07/04 Time: 0000

GC Column: DB-624-30M ID: .53 (mm

Date Received: 06/08/04

Instrument ID: MSV1

Date Analyzed: 06/16/04 Time: 1759

Soil Extract Volume: ( µL

Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: ( µL

Prep Batch: Analytical Batch: 275809

Analytical Method: OLCO 2.1

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL | |
|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.010 | 1.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 0.010 | 1.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 0.010 | 1.0 | |
| 540-59-0 | 1,2-Dichloroethene | 1.0 | U | 0.010 | 1.0 | |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 0.010 | 1.0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 78-93-3 | 2-Butanone | 5.0 | U | 0.010 | 5.0 | R |
| 591-78-6 | 2-Hexanone | 5.0 | U | 0.010 | 5.0 | R |
| 108-10-1 | 4-Methyl-2-pentanone | 5.0 | U | 0.010 | 5.0 | |
| 67-64-1 | Acetone | 5.0 | U | 0.010 | 5.0 | R |
| 71-43-2 | Benzene | 1.0 | U | 0.010 | 1.0 | |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 0.010 | 1.0 | |
| 75-25-2 | Bromoform | 1.0 | U | 0.010 | 1.0 | |
| 74-83-9 | Bromomethane | 1.0 | U | 0.010 | 1.0 | |
| 75-15-0 | Carbon disulfide | 1.0 | U | 0.010 | 1.0 | |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 0.010 | 1.0 | |
| 108-90-7 | Chlorobenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-00-3 | Chloroethane | 1.0 | U | 0.010 | 1.0 | |
| 67-66-3 | Chloroform | 1.0 | U | 0.010 | 1.0 | |
| 74-87-3 | Chloromethane | 1.0 | U | 0.010 | 1.0 | |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 0.010 | 1.0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 0.010 | 1.0 | |
| 100-41-4 | Ethylbenzene | 1.0 | U | 0.010 | 1.0 | |
| 75-09-2 | Methylene chloride | 2.0 | U | 0.010 | 2.0 | |
| 100-42-5 | Styrene | 1.0 | U | 0.010 | 1.0 | |

9/2/04 MSK

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKTB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix (soil/water) Water

Sample wt/vol: 25 (g/mL) mL Lab Sample ID: 20406081209

Level: (low/med) Lab File ID: 2040616/T8030

% Moisture: not dec. Date Collected: 06/07/04 Time: 0000

GC Column: DB-624-30M ID: 53 (mm) Date Received: 06/08/04

Instrument ID: MSV1 Date Analyzed: 06/16/04 Time: 1759

Soil Extract Volume: (µL) Dilution Factor: 1 Analyst: RJO

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 275809

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

| CAS NO. | COMPOUND | RESULT | Q | MDL | RL |
|---|---|---|---|---|---|
| 127-18-4 | Tetrachloroethene | 1.0 | U | 0.010 | 1.0 |
| 108-88-3 | Toluene | 1.0 | U | 0.010 | 1.0 |
| 79-01-6 | Trichloroethene | 1.0 | U | 0.010 | 1.0 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 0.010 | 1.0 |
| 1330-20-7 | Xylene (total) | 1.0 | U | 0.010 | 1.0 |

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKTB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: Water Lab Sample ID: 20406081209

Sample wt/vol: Units: Lab File ID: 2040616/T8030

Level: (low/med) Date Collected: 06/07/04 Time: 0000

% Moisture: not dec. Date Received: 06/08/04

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 06/16/04 Time: 1759

Instrument ID: MSV1 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

*Number TICs Found:* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1. | 7446-09-5 | Sulfur dioxide | 2.378 | 471 | |

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No. 204060812

Matrix: Water

Sample wt/vol: 1000 Units mL

Level: (low/med)

% Moisture: decanted (Y/N)

GC Column: DB-5MS-30M ID: 25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

*CONCENTRATION UNITS:* ug/L

Sample ID: SKGW06R1010

Contract:

Lab File ID: 2040615P/B1090

Lab Sample ID: 20406081201

Date Collected: 06/07/04 Time: 1020

Date Received: 06/08/04

Date Extracted: 6/10/04

Date Analyzed: 06/15/04 Time: 2253

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 275540 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 95-95-4 | 2,4,5-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 120-83-2 | 2,4-Dichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 51-28-5 | 2,4-Dinitrophenol | 25.0 | U | 0.010 | 25.0 | UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 91-58-7 | 2-Chloronaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 95-57-8 | 2-Chlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-57-6 | 2-Methylnaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 88-74-4 | 2-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 88-75-5 | 2-Nitrophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10.0 | U | 0.010 | 10.0 | |
| 99-09-2 | 3-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 25.0 | U | 0.010 | 25.0 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10.0 | U | 0.010 | 10.0 | |
| 106-47-8 | 4-Chloroaniline | 10.0 | U | 0.010 | 10.0 | R |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10.0 | U | 0.010 | 10.0 | |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10.0 | U | 0.010 | 10.0 | |
| 83-32-9 | Acenaphthene | 10.0 | U | 0.010 | 10.0 | |
| 208-96-8 | Acenaphthylene | 10.0 | U | 0.010 | 10.0 | |
| 120-12-7 | Anthracene | 10.0 | U | 0.010 | 10.0 | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | U | 0.010 | 10.0 | |
| 50-32-8 | Benzo(a)pyrene | 10.0 | U | 0.010 | 10.0 | |
| 205-99-2 | Benzo(b)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 191-24-2 | Benzo(g,h,i)perylene | 10.0 | U | 0.010 | 10.0 | |
| 207-08-9 | Benzo(k)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10.0 | U | 0.010 | 10.0 | |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 117-81-7 | bis(2-ethylhexyl)phthalate | 10.0 ~~5.9~~ | J B | 0.010 | 10.0 | U |

9/7/04
MSL

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204060812
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med)
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW06R1010
Contract:
Lab File ID: 2040615P/B1090
Lab Sample ID: 20406081201
Date Collected: 06/07/04 Time: 1020
Date Received: 06/08/04
Date Extracted: 6/10/04
Date Analyzed: 06/15/04 Time: 2253
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 275540 Analytical Batch: 275913

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | | MDL | RL |
|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenylether | 10.0 | U | 0.010 | 10.0 |
| 85-68-7 | Butylbenzylphthalate | 10.0 | U | 0.010 | 10.0 |
| 86-74-8 | Carbazole | 10.0 | U | 0.010 | 10.0 |
| 218-01-9 | Chrysene | 10.0 | U | 0.010 | 10.0 |
| 84-74-2 | Di-n-butylphthalate | 10.0 | U | 0.010 | 10.0 |
| 117-84-0 | Di-n-octylphthalate | 10.0 | U | 0.010 | 10.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 10.0 | U | 0.010 | 10.0 |
| 132-64-9 | Dibenzofuran | 10.0 | U | 0.010 | 10.0 |
| 84-66-2 | Diethylphthalate | 10.0 | U | 0.010 | 10.0 |
| 131-11-3 | Dimethyl-phthalate | 10.0 | U | 0.010 | 10.0 |
| 105-67-9 | 2,4-Dimethylphenol | 10.0 | U | 0.010 | 10.0 |
| 206-44-0 | Fluoranthene | 10.0 | U | 0.010 | 10.0 |
| 86-73-7 | Fluorene | 10.0 | U | 0.010 | 10.0 |
| 118-74-1 | Hexachlorobenzene | 10.0 | U | 0.010 | 10.0 |
| 87-68-3 | Hexachlorobutadiene | 10.0 | U | 0.010 | 10.0 |
| 77-47-4 | Hexachlorocyclopentadiene | 10.0 | U | 0.010 | 10.0 |
| 67-72-1 | Hexachloroethane | 10.0 | U | 0.010 | 10.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10.0 | U | 0.010 | 10.0 |
| 78-59-1 | Isophorone | 10.0 | U | 0.010 | 10.0 |
| 91-20-3 | Naphthalene | 10.0 | U | 0.010 | 10.0 |
| 100-01-6 | 4-Nitroaniline | 25.0 | U | 0.010 | 25.0 |
| 98-95-3 | Nitrobenzene | 10.0 | U | 0.010 | 10.0 |
| 100-02-7 | 4-Nitrophenol | 25.0 | U | 0.010 | 25.0 |
| 87-86-5 | Pentachlorophenol | 25.0 | U | 0.010 | 25.0 |
| 85-01-8 | Phenanthrene | 10.0 | U | 0.010 | 10.0 |
| 108-95-2 | Phenol | 10.0 | U | 0.010 | 10.0 |
| 129-00-0 | Pyrene | 10.0 | U | 0.010 | 10.0 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10.0 | U | 0.010 | 10.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 10.0 | U | 0.010 | 10.0 |
| 95-48-7 | o-Cresol | 10.0 | U | 0.010 | 10.0 |

7/7/04
MSC

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No: 204060812
Matrix: Water
Sample wt/vol: Units
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm
Concentrated Extract Volume: 1000 (µL
Injection Volume: 1.0 (µL
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW06R1010
Contract:
Lab File ID: 2040615P/B1090
Lab Sample ID: 20406081201
Date Collected: 06/07/04 Time: 1020
Date Received: 06/08/04
Date Extracted: 6/10/04
Date Analyzed: 06/15/04 Time: 2253
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

*Number TICs Found:* 1

*CONCENTRATION UNITS:*

| | *CAS NO.* | *COMPOUND* | *RT* | *EST. CONC.* | |
|---|---|---|---|---|---|
| 1 | | Unknown | 5.542 | 9.79 | |

7/7/04

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204060812

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 ( µL )

Injection Volume: 1.0 ( µL )

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW07R1010

Contract:

Lab File ID: 2040615P/B1091

Lab Sample ID: 20406081202

Date Collected: 06/07/04 Time: 1058

Date Received: 06/08/04

Date Extracted: 6/10/04

Date Analyzed: 06/15/04 Time: 2310

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

*CONCENTRATION UNITS: ug/L*

Prep Batch: 275540 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 95-95-4 | 2,4,5-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 120-83-2 | 2,4-Dichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 51-28-5 | 2,4-Dinitrophenol | 25.0 | U | 0.010 | 25.0 | UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 91-58-7 | 2-Chloronaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 95-57-8 | 2-Chlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-57-6 | 2-Methylnaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 88-74-4 | 2-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 88-75-5 | 2-Nitrophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10.0 | U | 0.010 | 10.0 | |
| 99-09-2 | 3-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 25.0 | U | 0.010 | 25.0 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10.0 | U | 0.010 | 10.0 | |
| 106-47-8 | 4-Chloroaniline | 10.0 | U | 0.010 | 10.0 | R |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10.0 | U | 0.010 | 10.0 | |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10.0 | U | 0.010 | 10.0 | |
| 83-32-9 | Acenaphthene | 10.0 | U | 0.010 | 10.0 | |
| 208-96-8 | Acenaphthylene | 10.0 | U | 0.010 | 10.0 | |
| 120-12-7 | Anthracene | 10.0 | U | 0.010 | 10.0 | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | U | 0.010 | 10.0 | |
| 50-32-8 | Benzo(a)pyrene | 10.0 | U | 0.010 | 10.0 | |
| 205-99-2 | Benzo(b)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 191-24-2 | Benzo(g,h,i)perylene | 10.0 | U | 0.010 | 10.0 | |
| 207-08-9 | Benzo(k)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10.0 | U | 0.010 | 10.0 | |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 117-81-7 | bis(2-ethylhexyl)phthalate | ~~2.46~~ 10.0 | ~~J~~ B | 0.010 | 10.0 | u |

FORM I SV-1

9/7/04 AS

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204060812

Matrix: Water

Sample wt/vol: 1000 Units mL

Level: (low/med)

% Moisture: decanted (Y/N)

GC Column: DB-5MS-30M ID 25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

*CONCENTRATION UNITS:* ug/L

Sample ID: SKGW07R1010

Contract:

Lab File ID: 2040615P/B1091

Lab Sample ID: 20406081202

Date Collected: 06/07/04 Time: 1058

Date Received: 06/08/04

Date Extracted: 6/10/04

Date Analyzed: 06/15/04 Time: 2310

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 275540 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL |
|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenylether | 10.0 | U | 0.010 | 10.0 |
| 85-68-7 | Butylbenzylphthalate | 10.0 | U | 0.010 | 10.0 |
| 86-74-8 | Carbazole | 10.0 | U | 0.010 | 10.0 |
| 218-01-9 | Chrysene | 10.0 | U | 0.010 | 10.0 |
| 84-74-2 | Di-n-butylphthalate | 10.0 | U | 0.010 | 10.0 |
| 117-84-0 | Di-n-octylphthalate | 10.0 | U | 0.010 | 10.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 10.0 | U | 0.010 | 10.0 |
| 132-64-9 | Dibenzofuran | 10.0 | U | 0.010 | 10.0 |
| 84-66-2 | Diethylphthalate | 10.0 | U | 0.010 | 10.0 |
| 131-11-3 | Dimethyl-phthalate | 10.0 | U | 0.010 | 10.0 |
| 105-67-9 | 2,4-Dimethylphenol | 10.0 | U | 0.010 | 10.0 |
| 206-44-0 | Fluoranthene | 10.0 | U | 0.010 | 10.0 |
| 86-73-7 | Fluorene | 10.0 | U | 0.010 | 10.0 |
| 118-74-1 | Hexachlorobenzene | 10.0 | U | 0.010 | 10.0 |
| 87-68-3 | Hexachlorobutadiene | 10.0 | U | 0.010 | 10.0 |
| 77-47-4 | Hexachlorocyclopentadiene | 10.0 | U | 0.010 | 10.0 |
| 67-72-1 | Hexachloroethane | 10.0 | U | 0.010 | 10.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10.0 | U | 0.010 | 10.0 |
| 78-59-1 | Isophorone | 10.0 | U | 0.010 | 10.0 |
| 91-20-3 | Naphthalene | 10.0 | U | 0.010 | 10.0 |
| 100-01-6 | 4-Nitroaniline | 25.0 | U | 0.010 | 25.0 |
| 98-95-3 | Nitrobenzene | 10.0 | U | 0.010 | 10.0 |
| 100-02-7 | 4-Nitrophenol | 25.0 | U | 0.010 | 25.0 |
| 87-86-5 | Pentachlorophenol | 25.0 | U | 0.010 | 25.0 |
| 85-01-8 | Phenanthrene | 10.0 | U | 0.010 | 10.0 |
| 108-95-2 | Phenol | 10.0 | U | 0.010 | 10.0 |
| 129-00-0 | Pyrene | 10.0 | U | 0.010 | 10.0 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10.0 | U | 0.010 | 10.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 10.0 | U | 0.010 | 10.0 |
| 95-48-7 | o-Cresol | 10.0 | U | 0.010 | 10.0 |

7/31/04

FORM SV-1

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204060812
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm
Concentrated Extract Volume: 1000 ( µL
Injection Volume: 1.0 ( µL
GPC Cleanup: (Y/N N pH:

Sample ID SKGW07R1010
Contract:
Lab File ID: B1091
Lab Sample ID: 20406081202
Date Collected: 06/07/04 Time: 1058
Date Received: 06/08/04
Date Extracted: 6/10/04
Date Analyzed: 06/15/04 Time: 2310
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

*Number TICs Found : 0*

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1. | | No tics detected | | | |

FORM I SV-TIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No

SAS No.: SDG No 204060812

Matrix: Water

Sample wt/vol: 1000 Units mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID 25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

*CONCENTRATION UNITS:* ug/L

Sample ID SKGW631010

Contract:

Lab File ID 2040615P/B1092

Lab Sample ID: 20406081203

Date Collected: 06/07/04 Time: 1258

Date Received 06/08/04

Date Extracted: 6/10/04

Date Analyzed: 06/15/04 Time: 2328

Dilution Factor: 1 Analyst: RLW

Prep Method 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch 275540 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 95-95-4 | 2,4,5-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 120-83-2 | 2,4-Dichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 51-28-5 | 2,4-Dinitrophenol | 25.0 | U | 0.010 | 25.0 | UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 91-58-7 | 2-Chloronaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 95-57-8 | 2-Chlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-57-6 | 2-Methylnaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 88-74-4 | 2-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 88-75-5 | 2-Nitrophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10.0 | U | 0.010 | 10.0 | |
| 99-09-2 | 3-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 25.0 | U | 0.010 | 25.0 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10.0 | U | 0.010 | 10.0 | |
| 106-47-8 | 4-Chloroaniline | 10.0 | U | 0.010 | 10.0 | R |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10.0 | U | 0.010 | 10.0 | |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10.0 | U | 0.010 | 10.0 | |
| 83-32-9 | Acenaphthene | 10.0 | U | 0.010 | 10.0 | |
| 208-96-8 | Acenaphthylene | 10.0 | U | 0.010 | 10.0 | |
| 120-12-7 | Anthracene | 10.0 | U | 0.010 | 10.0 | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | U | 0.010 | 10.0 | |
| 50-32-8 | Benzo(a)pyrene | 10.0 | U | 0.010 | 10.0 | |
| 205-99-2 | Benzo(b)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 191-24-2 | Benzo(g,h,i)perylene | 10.0 | U | 0.010 | 10.0 | |
| 207-08-9 | Benzo(k)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10.0 | U | 0.010 | 10.0 | |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 117-81-7 | bis(2-ethylhexyl)phthalate | 10.0 ~~2.48~~ | J B | 0.010 | 10.0 | U |

7/7/04 MSV

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204060812

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

*CONCENTRATION UNITS: ug/L*

Sample ID: SKGW631010

Contract:

Lab File ID: 2040615P/B1092

Lab Sample ID: 20406081203

Date Collected: 06/07/04 Time: 1258

Date Received: 06/08/04

Date Extracted: 6/10/04

Date Analyzed: 06/15/04 Time: 2328

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 275540 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL |
|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenylether | 10.0 | U | 0.010 | 10.0 |
| 85-68-7 | Butylbenzylphthalate | 10.0 | U | 0.010 | 10.0 |
| 86-74-8 | Carbazole | 10.0 | U | 0.010 | 10.0 |
| 218-01-9 | Chrysene | 10.0 | U | 0.010 | 10.0 |
| 84-74-2 | Di-n-butylphthalate | 0.692 | J | 0.010 | 10.0 |
| 117-84-0 | Di-n-octylphthalate | 10.0 | U | 0.010 | 10.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 10.0 | U | 0.010 | 10.0 |
| 132-64-9 | Dibenzofuran | 10.0 | U | 0.010 | 10.0 |
| 84-66-2 | Diethylphthalate | 10.0 | U | 0.010 | 10.0 |
| 131-11-3 | Dimethyl-phthalate | 10.0 | U | 0.010 | 10.0 |
| 105-67-9 | 2,4-Dimethylphenol | 10.0 | U | 0.010 | 10.0 |
| 206-44-0 | Fluoranthene | 10.0 | U | 0.010 | 10.0 |
| 86-73-7 | Fluorene | 10.0 | U | 0.010 | 10.0 |
| 118-74-1 | Hexachlorobenzene | 10.0 | U | 0.010 | 10.0 |
| 87-68-3 | Hexachlorobutadiene | 10.0 | U | 0.010 | 10.0 |
| 77-47-4 | Hexachlorocyclopentadiene | 10.0 | U | 0.010 | 10.0 |
| 67-72-1 | Hexachloroethane | 10.0 | U | 0.010 | 10.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10.0 | U | 0.010 | 10.0 |
| 78-59-1 | Isophorone | 10.0 | U | 0.010 | 10.0 |
| 91-20-3 | Naphthalene | 10.0 | U | 0.010 | 10.0 |
| 100-01-6 | 4-Nitroaniline | 25.0 | U | 0.010 | 25.0 |
| 98-95-3 | Nitrobenzene | 10.0 | U | 0.010 | 10.0 |
| 100-02-7 | 4-Nitrophenol | 25.0 | U | 0.010 | 25.0 |
| 87-86-5 | Pentachlorophenol | 25.0 | U | 0.010 | 25.0 |
| 85-01-8 | Phenanthrene | 10.0 | U | 0.010 | 10.0 |
| 108-95-2 | Phenol | 10.0 | U | 0.010 | 10.0 |
| 129-00-0 | Pyrene | 10.0 | U | 0.010 | 10.0 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10.0 | U | 0.010 | 10.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 10.0 | U | 0.010 | 10.0 |
| 95-48-7 | o-Cresol | 10.0 | U | 0.010 | 10.0 |

7/7/04

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.
SAS No.: SDG No.: 20406081 2
Matrix: Water
Sample wt/vol: Units
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: 25 (mm
Concentrated Extract Volume: 1000 (µL
Injection Volume: 1.0 (µL
GPC Cleanup: (Y/N N pH.

Sample ID SKGW631010
Contract:
Lab File ID 2040615P1B1092
Lab Sample ID 20406081203
Date Collected 06/07/04 Time: 1258
Date Received 06/08/04
Date Extracted 6/10/04
Date Analyzed 06/15/04 Time: 2328
Dilution Factor 1 Analyst: RLW
Prep Method 3520
Analytical Method SW-846 8270C
Instrument ID. MSSV3

*Number TICs Found :* 1

*CONCENTRATION UNITS.*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1 | | Unknown | 6.55 | 11.9 | |

7/7/04
MM

FORM SV-TIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204060812

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW63FD1010

Contract:

Lab File ID: 2040615P/B1093

Lab Sample ID: 20406081204

Date Collected: 06/07/04 Time: 1335

Date Received: 06/08/04

Date Extracted: 6/10/04

Date Analyzed: 06/15/04 Time: 2346

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520C

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 275540 Analytical Batch: 275913

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 95-95-4 | 2,4,5-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 120-83-2 | 2,4-Dichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 51-28-5 | 2,4-Dinitrophenol | 25.0 | U | 0.010 | 25.0 | UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 91-58-7 | 2-Chloronaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 95-57-8 | 2-Chlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-57-6 | 2-Methylnaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 88-74-4 | 2-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 88-75-5 | 2-Nitrophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10.0 | U | 0.010 | 10.0 | |
| 99-09-2 | 3-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 25.0 | U | 0.010 | 25.0 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10.0 | U | 0.010 | 10.0 | |
| 106-47-8 | 4-Chloroaniline | 10.0 | U | 0.010 | 10.0 | R |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10.0 | U | 0.010 | 10.0 | |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10.0 | U | 0.010 | 10.0 | |
| 83-32-9 | Acenaphthene | 10.0 | U | 0.010 | 10.0 | |
| 208-96-8 | Acenaphthylene | 10.0 | U | 0.010 | 10.0 | |
| 120-12-7 | Anthracene | 10.0 | U | 0.010 | 10.0 | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | U | 0.010 | 10.0 | |
| 50-32-8 | Benzo(a)pyrene | 10.0 | U | 0.010 | 10.0 | |
| 205-99-2 | Benzo(b)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 191-24-2 | Benzo(g,h,i)perylene | 10.0 | U | 0.010 | 10.0 | |
| 207-08-9 | Benzo(k)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 111-91-1 | Bis(2-Chloroethoxy)methane | 10.0 | U | 0.010 | 10.0 | |
| 111-44-4 | Bis(2-Chloroethyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 108-60-1 | bis(2-Chloroisopropyl)ether | 10.0 | U | 0.010 | 10.0 | |
| 117-81-7 | bis(2-ethylhexyl)phthalate | 3.11 | J B | 0.010 | 10.0 | U |

9/9/04
MSL

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No: 204060812

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: Y/N)

GC Column: DB-5MS-30M ID: 25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW63FD1010

Contract:

Lab File ID: 2040615P/B1093

Lab Sample ID: 20406081204

Date Collected: 06/07/04 Time: 1335

Date Received: 06/08/04

Date Extracted: 6/10/04

Date Analyzed: 06/15/04 Time: 2346

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

Prep Batch: 275540 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL |
|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenylether | 10.0 | U | 0.010 | 10.0 |
| 85-68-7 | Butylbenzylphthalate | 10.0 | U | 0.010 | 10.0 |
| 86-74-8 | Carbazole | 10.0 | U | 0.010 | 10.0 |
| 218-01-9 | Chrysene | 10.0 | U | 0.010 | 10.0 |
| 84-74-2 | Di-n-butylphthalate | 10.0 | U | 0.010 | 10.0 |
| 117-84-0 | Di-n-octylphthalate | 10.0 | U | 0.010 | 10.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 10.0 | U | 0.010 | 10.0 |
| 132-64-9 | Dibenzofuran | 10.0 | U | 0.010 | 10.0 |
| 84-66-2 | Diethylphthalate | 10.0 | U | 0.010 | 10.0 |
| 131-11-3 | Dimethyl-phthalate | 10.0 | U | 0.010 | 10.0 |
| 105-67-9 | 2,4-Dimethylphenol | 10.0 | U | 0.010 | 10.0 |
| 206-44-0 | Fluoranthene | 10.0 | U | 0.010 | 10.0 |
| 86-73-7 | Fluorene | 10.0 | U | 0.010 | 10.0 |
| 118-74-1 | Hexachlorobenzene | 10.0 | U | 0.010 | 10.0 |
| 87-68-3 | Hexachlorobutadiene | 10.0 | U | 0.010 | 10.0 |
| 77-47-4 | Hexachlorocyclopentadiene | 10.0 | U | 0.010 | 10.0 |
| 67-72-1 | Hexachloroethane | 10.0 | U | 0.010 | 10.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10.0 | U | 0.010 | 10.0 |
| 78-59-1 | Isophorone | 10.0 | U | 0.010 | 10.0 |
| 91-20-3 | Naphthalene | 10.0 | U | 0.010 | 10.0 |
| 100-01-6 | 4-Nitroaniline | 25.0 | U | 0.010 | 25.0 |
| 98-95-3 | Nitrobenzene | 10.0 | U | 0.010 | 10.0 |
| 100-02-7 | 4-Nitrophenol | 25.0 | U | 0.010 | 25.0 |
| 87-86-5 | Pentachlorophenol | 25.0 | U | 0.010 | 25.0 |
| 85-01-8 | Phenanthrene | 10.0 | U | 0.010 | 10.0 |
| 108-95-2 | Phenol | 10.0 | U | 0.010 | 10.0 |
| 129-00-0 | Pyrene | 10.0 | U | 0.010 | 10.0 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10.0 | U | 0.010 | 10.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 10.0 | U | 0.010 | 10.0 |
| 95-48-7 | o-Cresol | 10.0 | U | 0.010 | 10.0 |

9/7/04

FORM 1 SV-1

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204060812
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm
Concentrated Extract Volume: 1000 (µL
Injection Volume: 1.0 (µL
GPC Cleanup: (Y/N N pH:

Sample ID SKGW63FD1010
Contract:
Lab File ID: 2040615P/B1093
Lab Sample ID: 20406081204
Date Collected: 06/07/04 Time: 1335
Date Received: 06/08/04
Date Extracted: 6/10/04
Date Analyzed: 06/15/04 Time: 2346
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

*Number TICs Found : 1*

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1. | | Unknown | 6.551 | 19.1 | |

9/7/04
MK

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204060812
Matrix: Water
Sample wt/vol: 1000 Units: mL
Level: (low/med)
% Moisture: decanted: (Y/N)
GC Column: DB-5MS-30M ID: 25 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

CONCENTRATION UNITS: ug/L

Sample ID: SKGW611010
Contract:
Lab File ID: 2040615P/B1094
Lab Sample ID: 204060812 05
Date Collected: 06/07/04 Time: 1432
Date Received: 06/08/04
Date Extracted: 6/10/04
Date Analyzed: 06/16/04 Time: 0003
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 275540 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 95-95-4 | 2,4,5-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 88-06-2 | 2,4,6-Trichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 120-83-2 | 2,4-Dichlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 51-28-5 | 2,4-Dinitrophenol | 25.0 | U | 0.010 | 25.0 | UJ |
| 121-14-2 | 2,4-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 606-20-2 | 2,6-Dinitrotoluene | 10.0 | U | 0.010 | 10.0 | |
| 91-58-7 | 2-Chloronaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 95-57-8 | 2-Chlorophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-57-6 | 2-Methylnaphthalene | 10.0 | U | 0.010 | 10.0 | |
| 88-74-4 | 2-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 88-75-5 | 2-Nitrophenol | 10.0 | U | 0.010 | 10.0 | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10.0 | U | 0.010 | 10.0 | |
| 99-09-2 | 3-Nitroaniline | 25.0 | U | 0.010 | 25.0 | |
| 534-52-1 | 2-Methyl-4,6-dinitrophenol | 25.0 | U | 0.010 | 25.0 | |
| 59-50-7 | 4-Chloro-3-methylphenol | 10.0 | U | 0.010 | 10.0 | |
| 106-47-8 | 4-Chloroaniline | 10.0 | U | 0.010 | 10.0 | R |
| 7005-72-3 | 4-Chlorophenyl-chemylether | 10.0 | U | 0.010 | 10.0 | |
| 106-44-5 | 4-Methylphenol (p-Cresol) | 10.0 | U | 0.010 | 10.0 | |
| 83-32-9 | Acenaphthene | 10.0 | U | 0.010 | 10.0 | |
| 208-96-8 | Acenaphthylene | 10.0 | U | 0.010 | 10.0 | |
| 120-12-7 | Anthracene | 10.0 | U | 0.010 | 10.0 | |
| 56-55-3 | Benzo(a)anthracene | 10.0 | U | 0.010 | 10.0 | |
| 50-32-8 | Benzo(a)pyrene | 10.0 | U | 0.010 | 10.0 | |
| 205-99-2 | Benzo(b)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 191-24-2 | Benzo(g,h,i)perylene | 10.0 | U | 0.010 | 10.0 | |
| 207-08-9 | Benzo(k)fluoranthene | 10.0 | U | 0.010 | 10.0 | |
| 111-91-1 | Bis(2-Chloroethoxy) methane | 10.0 | U | 0.010 | 10.0 | |
| 111-44-4 | Bis(2-Chloroethyl) ether | 0.665 | J | 0.010 | 10.0 | |
| 108-60-1 | bis(2-Chloroisopropyl) ether | 10.0 | U | 0.010 | 10.0 | |
| 117-81-7 | bis(2-ethylhexyl) phthalate | 2.24 | J B | 0.010 | 10.0 | U |

6/16/04

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204060812

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB-5MS-30M ID: .25 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

*CONCENTRATION UNITS: ug/L*

Sample ID: SKGW611010

Contract:

Lab File ID: 2040615P/B1094

Lab Sample ID: 204060812O5

Date Collected: 06/07/04 Time: 1432

Date Received: 06/08/04

Date Extracted: 6/10/04

Date Analyzed: 06/16/04 Time: 0003

Dilution Factor: 1 Analyst: RLW

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 275540 Analytical Batch: 275913

| CAS NO. | COMPOUND | RESULT | | MDL | RL |
|---|---|---|---|---|---|
| 101-55-3 | 4-Bromophenyl-phenylether | 10.0 | U | 0.010 | 10.0 |
| 85-68-7 | Butylbenzylphthalate | 10.0 | U | 0.010 | 10.0 |
| 86-74-8 | Carbazole | 10.0 | U | 0.010 | 10.0 |
| 218-01-9 | Chrysene | 10.0 | U | 0.010 | 10.0 |
| 84-74-2 | Di-n-butylphthalate | 10.0 | U | 0.010 | 10.0 |
| 117-84-0 | Di-n-octylphthalate | 10.0 | U | 0.010 | 10.0 |
| 53-70-3 | Dibenz(a,h)anthracene | 10.0 | U | 0.010 | 10.0 |
| 132-64-9 | Dibenzofuran | 10.0 | U | 0.010 | 10.0 |
| 84-66-2 | Diethylphthalate | 10.0 | U | 0.010 | 10.0 |
| 131-11-3 | Dimethyl-phthalate | 10.0 | U | 0.010 | 10.0 |
| 105-67-9 | 2,4-Dimethylphenol | 10.0 | U | 0.010 | 10.0 |
| 206-44-0 | Fluoranthene | 10.0 | U | 0.010 | 10.0 |
| 86-73-7 | Fluorene | 10.0 | U | 0.010 | 10.0 |
| 118-74-1 | Hexachlorobenzene | 10.0 | U | 0.010 | 10.0 |
| 87-68-3 | Hexachlorobutadiene | 10.0 | U | 0.010 | 10.0 |
| 77-47-4 | Hexachlorocyclopentadiene | 10.0 | U | 0.010 | 10.0 |
| 67-72-1 | Hexachloroethane | 10.0 | U | 0.010 | 10.0 |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10.0 | U | 0.010 | 10.0 |
| 78-59-1 | Isophorone | 10.0 | U | 0.010 | 10.0 |
| 91-20-3 | Naphthalene | 10.0 | U | 0.010 | 10.0 |
| 100-01-6 | 4-Nitroaniline | 25.0 | U | 0.010 | 25.0 |
| 98-95-3 | Nitrobenzene | 10.0 | U | 0.010 | 10.0 |
| 100-02-7 | 4-Nitrophenol | 25.0 | U | 0.010 | 25.0 |
| 87-86-5 | Pentachlorophenol | 25.0 | U | 0.010 | 25.0 |
| 85-01-8 | Phenanthrene | 10.0 | U | 0.010 | 10.0 |
| 108-95-2 | Phenol | 10.0 | U | 0.010 | 10.0 |
| 129-00-0 | Pyrene | 10.0 | U | 0.010 | 10.0 |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10.0 | U | 0.010 | 10.0 |
| 86-30-6 | N-Nitrosodiphenylamine | 10.0 | U | 0.010 | 10.0 |
| 95-48-7 | o-Cresol | 10.0 | U | 0.010 | 10.0 |

9/7/04

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 20406081 2
Matrix: Water
Sample wt/vol: Units
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: 25 (mm
Concentrated Extract Volume: 1000 (µL
Injection Volume: 1.0 (µL
GPC Cleanup: (Y/N N pH

Sample ID: SKGW611010
Contract
Lab File ID: 2040615P/B1094
Lab Sample ID: 20406081205
Date Collected: 06/07/04 Time: 1432
Date Received: 06/08/04
Date Extracted: 6/11/04
Date Analyzed: 06/16/04 Time: 0003
Dilution Factor: 1 Analyst: RLW
Prep Method: 3520
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

*Number TICs Found :* 1

*CONCENTRATION UNITS:*

| | CAS NO. | COMPOUND | RT | EST. CONC. | |
|---|---|---|---|---|---|
| 1. | | Unknown | 6.539 | 10.3 | |

6/17/04
MSB

FORM I SV-TIC

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB1701-30M ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 275541 Analytical Batch: 276482

Sample ID SKGW06R1010

Contract:

SAS No.: SDG No.: 204060812

Lab Sample ID: 20406081201

Date Collected 06/07/04 Time: 1020

Date Received: 06/08/04

Date Extracted: 6/10/04

Date Analyzed: 06/28/04 Time: 1144

Dilution Factor: 1 Analyst: TLS

Prep Method: 3510

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A

Lab File ID: 2040628/SV3007

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 72-54-8 | 4,4'-DDD | 0.100 | U | 0.00010 | 0.100 | |
| 72-55-9 | 4,4'-DDE | 0.100 | U | 0.00010 | 0.100 | UJ |
| 50-29-3 | 4,4'-DDT | 0.100 | U | 0.00010 | 0.100 | |
| 309-00-2 | Aldrin | 0.050 | U | 0.00010 | 0.050 | |
| 12674-11-2 | Aroclor-1016 | 1.00 | U | 0.00010 | 1.00 | |
| 11104-28-2 | Aroclor-1221 | 2.00 | U | 0.00010 | 2.00 | |
| 11141-16-5 | Aroclor-1232 | 1.00 | U | 0.00010 | 1.00 | |
| 53469-21-9 | Aroclor-1242 | 1.00 | U | 0.00010 | 1.00 | |
| 12672-29-6 | Aroclor-1248 | 1.00 | U | 0.00010 | 1.00 | |
| 11097-69-1 | Aroclor-1254 | 1.00 | U | 0.00010 | 1.00 | |
| 11096-82-5 | Aroclor-1260 | 1.00 | U | 0.00010 | 1.00 | |
| 60-57-1 | Dieldrin | 0.100 | U | 0.00010 | 0.100 | |
| 959-98-8 | Endosulfan I | 0.050 | U | 0.00010 | 0.050 | |
| 33213-65-9 | Endosulfan II | 0.100 | U | 0.00010 | 0.100 | |
| 1031-07-8 | Endosulfan sulfate | 0.100 | U | 0.00010 | 0.100 | |
| 72-20-8 | Endrin | 0.100 | U | 0.00010 | 0.100 | |
| 7421-93-4 | Endrin aldehyde | 0.100 | U | 0.00010 | 0.100 | |
| 53494-70-5 | Endrin ketone | 0.100 | U | 0.00010 | 0.100 | |
| 76-44-8 | Heptachlor | 0.050 | U | 0.00010 | 0.050 | |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.00010 | 0.050 | |
| 72-43-5 | Methoxychlor | 0.500 | U | 0.00010 | 0.500 | |
| 8001-35-2 | Toxaphene | 5.00 | U | 0.00010 | 5.00 | |
| 319-84-6 | alpha-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 5103-71-9 | alpha-Chlordane | 0.050 | U | 0.00010 | 0.050 | |
| 319-85-7 | beta-BHC | 0.050 | U | 0.00010 | 0.050 | |
| 319-86-8 | delta-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.00010 | 0.050 | |
| 5103-74-2 | gamma-Chlordane | 0.050 | U | 0.00010 | 0.050 | |

7/8/04

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB1701-30M ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (uL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 275541 Analytical Batch: 276482

CONCENTRATION UNITS: ug/L

Sample ID: SKGW07R1010

Contract:

SAS No.: SDG No.: 204060812

Lab Sample ID: 20406081202

Date Collected: 06/07/04 Time: 1058

Date Received: 06/08/04

Date Extracted: Cleaned

Date Analyzed: 06/28/04 Time: 1213

Dilution Factor: 1 Analyst: TLS

Prep Method: 3510

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A

Lab File ID: 2040628/SV3008

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 72-54-8 | 4,4'-DDD | 0.100 | U | 0.00010 | 0.100 | |
| 72-55-9 | 4,4'-DDE | 0.100 | U | 0.00010 | 0.100 | UJ |
| 50-29-3 | 4,4'-DDT | 0.100 | U | 0.00010 | 0.100 | |
| 309-00-2 | Aldrin | 0.050 | U | 0.00010 | 0.050 | |
| 12674-11-2 | Aroclor-1016 | 1.00 | U | 0.00010 | 1.00 | |
| 11104-28-2 | Aroclor-1221 | 2.00 | U | 0.00010 | 2.00 | |
| 11141-16-5 | Aroclor-1232 | 1.00 | U | 0.00010 | 1.00 | |
| 53469-21-9 | Aroclor-1242 | 1.00 | U | 0.00010 | 1.00 | |
| 12672-29-6 | Aroclor-1248 | 1.00 | U | 0.00010 | 1.00 | |
| 11097-69-1 | Aroclor-1254 | 1.00 | U | 0.00010 | 1.00 | |
| 11096-82-5 | Aroclor-1260 | 1.00 | U | 0.00010 | 1.00 | |
| 60-57-1 | Dieldrin | 0.100 | U | 0.00010 | 0.100 | |
| 959-98-8 | Endosulfan I | 0.050 | U | 0.00010 | 0.050 | |
| 33213-65-9 | Endosulfan II | 0.100 | U | 0.00010 | 0.100 | |
| 1031-07-8 | Endosulfan sulfate | 0.100 | U | 0.00010 | 0.100 | |
| 72-20-8 | Endrin | 0.100 | U | 0.00010 | 0.100 | |
| 7421-93-4 | Endrin aldehyde | 0.100 | U | 0.00010 | 0.100 | |
| 53494-70-5 | Endrin ketone | 0.100 | U | 0.00010 | 0.100 | |
| 76-44-8 | Heptachlor | 0.050 | U | 0.00010 | 0.050 | |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.00010 | 0.050 | |
| 72-43-5 | Methoxychlor | 0.500 | U | 0.00010 | 0.500 | |
| 8001-35-2 | Toxaphene | 5.00 | U | 0.00010 | 5.00 | |
| 319-84-6 | alpha-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 5103-71-9 | alpha-Chlordane | 0.050 | U | 0.00010 | 0.050 | |
| 319-85-7 | beta-BHC | 0.050 | U | 0.00010 | 0.050 | |
| 319-86-8 | delta-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.00010 | 0.050 | |
| 5103-74-2 | gamma-Chlordane | 0.050 | U | 0.00010 | 0.050 | |

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FORM I ORG-1

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB1701-30M ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Prep Batch: 275541 Analytical Batch: 276482

*CONCENTRATION UNITS: ug/L*

Sample ID SKGW631010

Contract:

SAS No.: SDG No.: 204060812

Lab Sample ID: 20406081203

Date Collected 06/07/04 Time: 1258

Date Received: 06/08/04

Date Extracted: 6/10/04

Date Analyzed: 06/28/04 Time: 1243

Dilution Factor: 1 Analyst: TLS

Prep Method: 3510

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A

Lab File ID: 2040628/SV3009

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 72-54-8 | 4,4'-DDD | 0.100 | U | 0.00010 | 0.100 | |
| 72-55-9 | 4,4'-DDE | 0.100 | U | 0.00010 | 0.100 | UJ |
| 50-29-3 | 4,4'-DDT | 0.100 | U | 0.00010 | 0.100 | |
| 309-00-2 | Aldrin | 0.050 | U | 0.00010 | 0.050 | |
| 12674-11-2 | Aroclor-1016 | 1.00 | U | 0.00010 | 1.00 | |
| 11104-28-2 | Aroclor-1221 | 2.00 | U | 0.00010 | 2.00 | |
| 11141-16-5 | Aroclor-1232 | 1.00 | U | 0.00010 | 1.00 | |
| 53469-21-9 | Aroclor-1242 | 1.00 | U | 0.00010 | 1.00 | |
| 12672-29-6 | Aroclor-1248 | 1.00 | U | 0.00010 | 1.00 | |
| 11097-69-1 | Aroclor-1254 | 1.00 | U | 0.00010 | 1.00 | |
| 11096-82-5 | Aroclor-1260 | 1.00 | U | 0.00010 | 1.00 | |
| 60-57-1 | Dieldrin | 0.100 | U | 0.00010 | 0.100 | |
| 959-98-8 | Endosulfan I | 0.050 | U | 0.00010 | 0.050 | |
| 33213-65-9 | Endosulfan II | 0.100 | U | 0.00010 | 0.100 | |
| 1031-07-8 | Endosulfan sulfate | 0.100 | U | 0.00010 | 0.100 | |
| 72-20-8 | Endrin | 0.100 | U | 0.00010 | 0.100 | |
| 7421-93-4 | Endrin aldehyde | 0.100 | U | 0.00010 | 0.100 | |
| 53494-70-5 | Endrin ketone | 0.100 | U | 0.00010 | 0.100 | |
| 76-44-8 | Heptachlor | 0.050 | U | 0.00010 | 0.050 | |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.00010 | 0.050 | |
| 72-43-5 | Methoxychlor | 0.500 | U | 0.00010 | 0.500 | |
| 8001-35-2 | Toxaphene | 5.00 | U | 0.00010 | 5.00 | |
| 319-84-6 | alpha-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 5103-71-9 | alpha-Chlordane | 0.050 | U | 0.00010 | 0.050 | |
| 319-85-7 | beta-BHC | 0.050 | U | 0.00010 | 0.050 | |
| 319-86-8 | delta-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.00010 | 0.050 | |
| 5103-74-2 | gamma-Chlordane | 0.050 | U | 0.00010 | 0.050 | |

9/8/04
MJR

ORGANICS ANALYSIS DATA SHEET

| | | | |
|---|---|---|---|
| Lab Name: GCAL | | Sample ID: SKGW63FD1010 | |
| Lab Code: LA024 | Case No.: | Contract: | |
| Matrix: Water | | SAS No. | SDG No.: 204060812 |
| Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20406081204 | |
| Level: (low/med) | | Date Collected: 06/07/04 | Time: 1335 |
| % Moisture: | decanted (Y/N) | Date Received: 06/08/04 | |
| GC Column: DB1701-30M | ID: 53 (mm) | Date Extracted: 6/10/04 | |
| Concentrated Extract Volume: 1000 | (µL) | Date Analyzed: 06/28/04 | Time: 1313 |
| Soil Aliquot Volume: | (µL) | Dilution Factor: 1 | Analyst: TLS |
| Injection Volume: 1 | (µL) | Prep Method: 3510 | |
| GPC Cleanup: (Y/N) N | pH: | Analytical Method: OLMO 4.2 | |
| Prep Batch: 275541 | Analytical Batch: 276482 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS3A |
| CONCENTRATION UNITS: ug/L | | Lab File ID: 2040628/SV3010 | |

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 72-54-8 | 4,4'-DDD | 0.100 | U | 0.00010 | 0.100 | |
| 72-55-9 | 4,4'-DDE | 0.100 | U | 0.00010 | 0.100 | UJ |
| 50-29-3 | 4,4'-DDT | 0.100 | U | 0.00010 | 0.100 | |
| 309-00-2 | Aldrin | 0.050 | U | 0.00010 | 0.050 | |
| 12674-11-2 | Aroclor-1016 | 1.00 | U | 0.00010 | 1.00 | |
| 11104-28-2 | Aroclor-1221 | 2.00 | U | 0.00010 | 2.00 | |
| 11141-16-5 | Aroclor-1232 | 1.00 | U | 0.00010 | 1.00 | |
| 53469-21-9 | Aroclor-1242 | 1.00 | U | 0.00010 | 1.00 | |
| 12672-29-6 | Aroclor-1248 | 1.00 | U | 0.00010 | 1.00 | |
| 11097-69-1 | Aroclor-1254 | 1.00 | U | 0.00010 | 1.00 | |
| 11096-82-5 | Aroclor-1260 | 1.00 | U | 0.00010 | 1.00 | |
| 60-57-1 | Dieldrin | 0.100 | U | 0.00010 | 0.100 | |
| 959-98-8 | Endosulfan I | 0.050 | U | 0.00010 | 0.050 | |
| 33213-65-9 | Endosulfan II | 0.100 | U | 0.00010 | 0.100 | |
| 1031-07-8 | Endosulfan sulfate | 0.100 | U | 0.00010 | 0.100 | |
| 72-20-8 | Endrin | 0.100 | U | 0.00010 | 0.100 | |
| 7421-93-4 | Endrin aldehyde | 0.100 | U | 0.00010 | 0.100 | |
| 53494-70-5 | Endrin ketone | 0.100 | U | 0.00010 | 0.100 | |
| 76-44-8 | Heptachlor | 0.050 | U | 0.00010 | 0.050 | |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.00010 | 0.050 | |
| 72-43-5 | Methoxychlor | 0.500 | U | 0.00010 | 0.500 | |
| 8001-35-2 | Toxaphene | 5.00 | U | 0.00010 | 5.00 | |
| 319-84-6 | alpha-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 5103-71-9 | alpha-Chlordane | 0.050 | U | 0.00010 | 0.050 | |
| 319-85-7 | beta-BHC | 0.050 | U | 0.00010 | 0.050 | |
| 319-86-8 | delta-BHC | 0.050 | U | 0.00010 | 0.050 | UJ |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.00010 | 0.050 | |
| 5103-74-2 | gamma-Chlordane | 0.050 | U | 0.00010 | 0.050 | |

9/8/07
MM

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 1000 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

GC Column: DB1701-30M ID: .53 (mm)

Concentrated Extract Volume: 1000 ( µL )

Soil Aliquot Volume: ( µL )

Injection Volume: 1 ( µL )

GPC Cleanup: (Y/N) N pH:

Prep Batch: 275541 Analytical Batch: 276482

Sample ID SKGW611010

Contract:

SAS No.: SDG No.: 204060812

Lab Sample ID: 20406081205

Date Collected 06/07/04 Time: 1432

Date Received: 06/08/04

Date Extracted: 6/10/04

Date Analyzed: 06/28/04 Time: 1342

Dilution Factor: 1 Analyst: TLS

Prep Method: 3510

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A

Lab File ID: 2040628/SV3011

*CONCENTRATION UNITS: ug/L*

| CAS NO. | COMPOUND | RESULT | | MDL | RL | |
|---|---|---|---|---|---|---|
| 72-54-8 | 4,4'-DDD | 0.100 | U | 0.00010 | 0.100 | |
| 72-55-9 | 4,4'-DDE | 0.100 | U | 0.00010 | 0.100 | U/J |
| 50-29-3 | 4,4'-DDT | 0.100 | U | 0.00010 | 0.100 | |
| 309-00-2 | Aldrin | 0.050 | U | 0.00010 | 0.050 | |
| 12674-11-2 | Aroclor-1016 | 1.00 | U | 0.00010 | 1.00 | |
| 11104-28-2 | Aroclor-1221 | 2.00 | U | 0.00010 | 2.00 | |
| 11141-16-5 | Aroclor-1232 | 1.00 | U | 0.00010 | 1.00 | |
| 53469-21-9 | Aroclor-1242 | 1.00 | U | 0.00010 | 1.00 | |
| 12672-29-6 | Aroclor-1248 | 1.00 | U | 0.00010 | 1.00 | |
| 11097-69-1 | Aroclor-1254 | 1.00 | U | 0.00010 | 1.00 | |
| 11096-82-5 | Aroclor-1260 | 1.00 | U | 0.00010 | 1.00 | |
| 60-57-1 | Dieldrin | 0.100 | U | 0.00010 | 0.100 | |
| 959-98-8 | Endosulfan I | 0.050 | U | 0.00010 | 0.050 | |
| 33213-65-9 | Endosulfan II | 0.100 | U | 0.00010 | 0.100 | |
| 1031-07-8 | Endosulfan sulfate | 0.100 | U | 0.00010 | 0.100 | |
| 72-20-8 | Endrin | 0.100 | U | 0.00010 | 0.100 | |
| 7421-93-4 | Endrin aldehyde | 0.100 | U | 0.00010 | 0.100 | |
| 53494-70-5 | Endrin ketone | 0.100 | U | 0.00010 | 0.100 | |
| 76-44-8 | Heptachlor | 0.050 | U | 0.00010 | 0.050 | |
| 1024-57-3 | Heptachlor epoxide | 0.050 | U | 0.00010 | 0.050 | |
| 72-43-5 | Methoxychlor | 0.500 | U | 0.00010 | 0.500 | |
| 8001-35-2 | Toxaphene | 5.00 | U | 0.00010 | 5.00 | |
| 319-84-6 | alpha-BHC | 0.050 | U | 0.00010 | 0.050 | U/J |
| 5103-71-9 | alpha-Chlordane | 0.050 | U | 0.00010 | 0.050 | |
| 319-85-7 | beta-BHC | 0.050 | U | 0.00010 | 0.050 | |
| 319-86-8 | delta-BHC | 0.050 | U | 0.00010 | 0.050 | U/J |
| 58-89-9 | gamma-BHC (Lindane) | 0.050 | U | 0.00010 | 0.050 | |
| 5103-74-2 | gamma-Chlordane | 0.050 | U | 0.00010 | 0.050 | |

9/8/04 [illegible]

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

SOW No.:

| EPA Sample No. | Lab Sample ID. |
|---|---|
| SKGW06R1010 | 20406081201 |
| SKGW07R1010 | 20406081202 |
| SKGW631010 | 20406081203 |
| SKGW63FD1010 | 20406081204 |
| SKGW611010 | 20406081205 |
| SKGW61MS1010 | 20406081206 |
| SKGW61DUP1010 | 20406081208 |
| SKGW06R1010 (DISS) | 20406081210 |
| SKGW07R1010 (DISS) | 20406081211 |
| SKGW631010 (DISS) | 20406081212 |
| SKGW611010 (DISS) | 20406081213 |
| SKGW61MS1010 (DISS) | 20406081214 |
| SKGW61DUP1010 (DISS) | 20406081215 |
| SKGW63FD1010 (DISS) | 20406081216 |

Were ICP interelement corrections applied? Yes / No YES

Were ICP background corrections applied? Yes / No YES

If yes-were raw data generated before application of background corrections? Yes / No NO

Comments:

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 in the computer readable data submitted on the diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Mark Peterman Name: Mark Peterman

Date: 7-12-04 Title: Metals Supervisor

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW06R1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081201

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 8.2 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N,* | P | UJ |
| 7440-39-3 | Barium | 103 | B | * | P | J |
| 7440-41-7 | Beryllium | 0.7 | B | | P | |
| 7440-43-9 | Cadmium | 1.5 | B | | P | |
| 7440-47-3 | Chromium | 5.3 | B | * | P | J |
| 7440-50-8 | Copper | 12.0 | B | * | P | J |
| 7439-89-6 | Iron | 17300 | | * | P | J |
| 7439-92-1 | Lead | 9.3 | | * | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 17.2 | B | * | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | N | P | ~~UJ~~ msu |
| 7440-66-6 | Zinc | 22.1 | | * | P | UJ |
| 57-12-5 | Cyanide | 3.3 | B | | AS | |

9/10/04
msu

Color Before: LT.BROWN Clarity Before: CLEAR Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW07R1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID 20406081202

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 4.5 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N * | P | UJ |
| 7440-39-3 | Barium | 570 | | * | P | J |
| 7440-41-7 | Beryllium | 0.6 | B | | P | |
| 7440-43-9 | Cadmium | 1.2 | B | | P | |
| 7440-47-3 | Chromium | 17.4 | | * | P | J |
| 7440-50-8 | Copper | 31.1 | | * | P | J |
| 7439-89-6 | Iron | 26900 | | * | P | J |
| 7439-92-1 | Lead | 15.7 | | * | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 24.0 | B | * | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | N | P | |
| 7440-66-6 | Zinc | 35.5 | | * | P | UJ |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

9/10/04
[illegible]

Color Before: LT.YELLOW Clarity Before: CLEAR Texture:

Color After: LT YELLOW Clarity After: CLEAR Artifacts:

Comments:

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U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW631010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081203

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 13.6 | B | | P | |
| 7440-38-2 | Arsenic | 9.7 | B | N,* | P | J |
| 7440-39-3 | Barium | 334 | | * | P | J |
| 7440-41-7 | Beryllium | 3.4 | B | | P | |
| 7440-43-9 | Cadmium | 3.9 | B | | P | |
| 7440-47-3 | Chromium | 66.8 | | * | P | J |
| 7440-50-8 | Copper | 104 | | * | P | J |
| 7439-89-6 | Iron | 112000 | | * | P | J |
| 7439-92-1 | Lead | 76.4 | | * | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 114 | | * | P | J |
| 7782-49-2 | Selenium | 7.2 | | | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | N | P | |
| 7440-66-6 | Zinc | 292 | | * | P | J |
| 57-12-5 | Cyanide | 1.2 | B | | AS | |

7/10/04
MJC

Color Before: DK.BROWN Clarity Before: CLOUDY Texture:

Color After: DK.BROWN Clarity After: CLOUDY Artifacts:

Comments:

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW63FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081204

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 13.0 | B | | P | |
| 7440-38-2 | Arsenic | 6.2 | B | N,* | P | J |
| 7440-39-3 | Barium | 319 | | * | P | J |
| 7440-41-7 | Beryllium | 3.3 | B | | P | |
| 7440-43-9 | Cadmium | 3.8 | B | | P | |
| 7440-47-3 | Chromium | 50.4 | | * | P | J |
| 7440-50-8 | Copper | 95.7 | | * | P | J |
| 7439-89-6 | Iron | 105000 | | * | P | J |
| 7439-92-1 | Lead | 72.0 | | * | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 109 | | * | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | N | P | |
| 7440-66-6 | Zinc | 277 | | * | P | J |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

9/10/04

Color Before: DK BROWN Clarity Before: CLOUDY Texture:

Color After: DK BROWN Clarity After: CLOUDY Artifacts:

Comments:

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U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW611010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081205

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 5.2 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N,* | P | UJ |
| 7440-39-3 | Barium | 108 | B | * | P | J |
| 7440-41-7 | Beryllium | 0.6 | B | | P | |
| 7440-43-9 | Cadmium | 1.2 | B | | P | |
| 7440-47-3 | Chromium | 8.1 | B | * | P | J |
| 7440-50-8 | Copper | 12.4 | B | * | P | J |
| 7439-89-6 | Iron | 17500 | | * | P | J |
| 7439-92-1 | Lead | 9.3 | | * | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 17.2 | B | * | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | N | P | |
| 7440-66-6 | Zinc | 22.4 | | * | P | UJ |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

9/10/04
M.R.

Color Before: LT.YELLOW Clarity Before: CLEAR Texture:

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN

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U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW61DUP1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix (soil / water) Water Lab Sample ID 20406081208

Level (low / med) Date Received 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 12.1 | B | | P | |
| 7440-38-2 | Arsenic | 12.7 | | N,* | P | J |
| 7440-39-3 | Barium | 743 | | * | P | J |
| 7440-41-7 | Beryllium | 2.5 | B | | P | |
| 7440-43-9 | Cadmium | 2.9 | B | | P | |
| 7440-47-3 | Chromium | 39.5 | | * | P | J |
| 7440-50-8 | Copper | 90.5 | | * | P | J |
| 7439-89-6 | Iron | 51800 | | * | P | J |
| 7439-92-1 | Lead | 56.9 | | * | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 54.7 | | * | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | N | P | |
| 7440-66-6 | Zinc | 181 | | * | P | J |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

7/6/04
MR

Color Before: LT.YELLOW Clarity Before CLEAR Texture:

Color After LT.YELLOW Clarity After CLEAR Artifacts:

Comments

FORM I - IN ILM04.1

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW06R1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081210

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 7.7 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 45.4 | B | * | P | J |
| 7440-41-7 | Beryllium | 0.2 | B | | P | |
| 7440-43-9 | Cadmium | 0.5 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 1360 | | * | P | J |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 3.4 | B | | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

9/10/04
MKK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW07R1010 (DISS)

Lab Name: GCAL Contract

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix ( soil / water ) Water Lab Sample ID 20406081211

Level: ( low / med ) Date Received 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 119 | B | * | P | J |
| 7440-41-7 | Beryllium | 0.2 | B | | P | |
| 7440-43-9 | Cadmium | 0.9 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-50-8 | Copper | 1.4 | B | | P | |
| 7439-89-6 | Iron | 41.3 | B | * | P | J |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 3.5 | B | | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 8.5 | B | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

9/15/04
MSH

Color Before: COLORLESS Clarity Before CLEAR Texture:

Color After: COLORLESS Clarity After CLEAR Artifacts:

Comments:

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW631010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081212

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 11.3 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 29.9 | B | * | P | J |
| 7440-41-7 | Beryllium | 0.5 | B | | P | |
| 7440-43-9 | Cadmium | 1.3 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 620 | | * | P | J |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 8.8 | B | | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

9/15/04
MIW

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW611010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix ( soil / water ) Water Lab Sample ID 20406081213

Level ( low / med ) Date Received 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 4.5 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 45.3 | B | * | P | J |
| 7440-41-7 | Beryllium | 0.2 | B | | P | |
| 7440-43-9 | Cadmium | 0.9 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 137[illegible] | | * | P | J |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 4.7 | B | | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

6/10/04
PJK

Color Before: COLORLESS Clarity Before CLEAR Texture:

Color After COLORLESS Clarity After CLEAR Artifacts:

Comments

FORM - IN

ILM04.1

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW61DUP1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081215

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 5.5 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 271 | | * | P | J |
| 7440-41-7 | Beryllium | 0.2 | B | | P | |
| 7440-43-9 | Cadmium | 0.9 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 36.6 | B | * | P | J |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.6 | B | | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

5/10/04
MJ

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW63FD1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix (soil / water): Water Lab Sample ID: 20406081216

Level (low / med): Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7440-36-0 | Antimony | 10.1 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 30.8 | B | * | P | J |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 0.8 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 399 | | * | P | J |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 8.0 | B | | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

9/21/04

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

# CHAIN OF CUSTODY RECORD

| Lab use only | Client # | Workorder # | Due Date |
|---|---|---|---|
| Earth Tech (Client Name) | 4342 | 20406 08 12 | 6/22/04 |

**Report to:**
Client: Earth Tech
Address: 200 Vine St
Calder KY. 41076
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

**Bill to:**
Client:
Address:
Contact: Glenn Springs Contract
Phone:
Fax:

P.O. Number: 59280-01
Project Name/Number: Skinner Land Fill 2nd Qtr 2004
Sampled By: Pat Higgins ; Ryan Hendrice

Analytical Requests & Method

Lab use only:
Custody Seal used ☑ yes ☐ no
in tact ☐ yes ☐ no
Temperature °C cp

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | Preservatives | No Containers | Volatiles | Semi-Volatile | Pesticides | PCBs | Total metals | Dissolved metals | Cyanide | | | | Remarks: | Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W | 6/7/04 | 1020 | | X | SLGW06R 1010 | HCL | 3 | X | | | | | | | | | | Refer to | 1 |
| | | 1050 | | | SLGW07R 1010 | | | | | | | | | | | | | Table 7 | 2 |
| | | 1258 | | | SLGW63 1010 | | | | | | | | | | | | | (TCL) and | 3 |
| | | 1335 | | | SLGW63FD 1010 | various | 10 | X | X | X | X | X | X | X | | | 16 | Table 8 | 4 |
| | | 1432 | | | SLGW61 1010 | HCL | 3 | | | | | | | | | | | (TAL) of | 5 |
| | | 1443 | | | SLGW61MS 1010 | | | | | | | | | | | | | the Final | 6 |
| | | 1456 | | | SLGW61MSD 1010 | | | | | | | | | | | | | O&M Plan | MSD - 7 dup - 8 |
| | | | | | SLTB 1010 | | | | | | | | | | | | | for the list | 9 |
| | | | | | | | | | | | | | | | | | | of Analytes | |

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| [signature] | Fed-Ex | | |
| Relinquished by: (Signature) Fed Ex # 8457 0661 1508 | Received by: (Signature) [signature] | Date: 6/8/04 | Time: 0930 |
| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |

Note: Samples submitted via FED EX for overnight delivery

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

GCAL-06 11/98

# GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

## CHAIN OF CUS[illegible]Y RECORD

Lab use only

| Client Name | Client # | Workorder # | Due Date |
|---|---|---|---|
| Earth Tech | 4342 | 2040 60812 | 6/2[illegible] |

**Report to:**
Client: Earth Tech
Address: 200 Vine St
Wilder KY
Contact: Pat Higgins
Phone: 859-882-2300
Fax: 859-882-2311

**Bill to:**
Client:
Address: Glenn Springs
Contact: Contract
Phone:
Fax:

P.O. Number: 58280-01
Project Name/Number: Skinner Land Fill - 2 Qtr 2004
Sampled By: Pat Higgins & Ryan Hembree

Analytical Requests & Method

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | Preservatives | No Containers | Volatiles | Semi-Volatiles | Pesticides | PCBs | Total Metals | Dissolved Metals | Cyanide | | | diss | Remarks: | Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W | 6/7/04 | 1020 | | X | SLGW06R 1010 | Various | 7 | | X | X | X | X | X | X | | - | 10 | Refer to | 6/8 |
| W | 6/7/04 | 1050 | | X | SLGW ~~06~~ PN 07R 1010 | Various | 7 | | X | X | X | X | X | X | | | 11 | Table 7 (TCL) and Table 8 (TAL) of the Final O&M Plan for the list of Analytes | |

Lab use only:
Custody Seal
used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 4

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| [signature] | Fed-Ex | 6/7/04 | 1700 |
| Fed Ex # 845706641568 | [signature] | 6/8/04 | 0930 |
| | | | |

Note: Samples sent via FED EX for overnight delivery

[illegible] submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

GCAL

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7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

# CHAIN OF CUSTODY RECORD

| Lab use only | | | |
|---|---|---|---|
| Earth Tech | 4342 | 204060812 | 6/22/04 |
| Client Name | Client # | Workorder # | Due Date |

**Report to:**
Client: Earth Tech
Address: 200 Vine St
Wilder Ky 41076
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

**Bill to:**
Client:
Address: Glenn Springs contract
Contact:
Phone:
Fax:

P.O. Number: 54280-01
Project Name/Number: Skinner Land Fill - 2nd qtr 2004
Sampled By: Pat Higgins ; Ryan Hendree

Analytical Requests & Method

Lab use only:
Custody Seal
used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 4

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | Preservatives | No Containers | Volatiles | Semi Volatiles | Pesticides | PCBs | Total Metals | Dissolved Metals | Cyanide | | | diss | Remarks: | Lab ID 6/8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W | 6/7/04 | 1258 | | X | Sh GW63 1010 | Various | 7 | | X | X | X | X | X | X | | | 12 | Refer to | 3 |
| W | 6/7/04 | ~~1410~~ 1432 | | X | Sh GW61 1010 | Various | 7 | | X | X | X | X | X | X | | | 13 | Table 7 | 5 ~~4~~ |
| | | | | | | | | | | | | | | | | | | (TCL) and | |
| | | | | | | | | | | | | | | | | | | Table 8 | |
| | | | | | | | | | | | | | | | | | | (TAL) of the | |
| | | | | | | | | | | | | | | | | | | Final O&M | |
| | | | | | | | | | | | | | | | | | | Plan for the | |
| | | | | | | | | | | | | | | | | | | list of analytes | |

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| [signature] | Fed-EX | 6/7/04 | 1700 |
| Fed Ex # 8457 0661 1568 | [signature] | 6/8/04 | 0930 |
| | | | |

Note: Samples sent via Fed Ex for overnight delivery

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

WHITE: CLIENT FINAL REPORT — CANARY: LABORATORY — PINK: CLIENT

CAL-06 11/98

# GCAL

GULF COAST ANALYTICAL LABORATORIES, INC
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

## CHAIN OF CUS[illegible]Y RECORD

Lab use only: Earth Tech — Client Name | 4342 — Client # | 2040 60812 — Workorder # | 6/22/04 — Due Date

**Report to:**
Client: Earth Tech
Address: 200 Vine St
Wilder Ky 41076
Contact: Pat Higgins
Phone: 859-442-2300
Fax: 859-442-2311

**Bill to:**
Client:
Address:
Contact: Glenn Springs Contract
Phone:
Fax:

P.O. Number: 59280.01
Project Name/Number: Skinner Landfill - 2nd Qtr 2004
Sampled By: Ben Hendree & Pat Higgins

Analytical Requests & Method

| Matrix[1] | Date | Time (2400) | Comp | Grab | Sample Description | Preservatives | No Containers | Volatiles | Semi Volatile | Pesticides | PCBs | Total metals | Dissolved metals | Cyanide | | | diss | Remarks: | Lab ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W | 6/7/04 | 1443 | | X | SLGW61MS 1010 | Various | 7 | | X | X | X | X | X | X | | | 14 | Refer to Table 7 (TCL) and Table 8 (TAL) of the Final O&M Plan for the list of Analytes | 6/13 6 |
| W | 6/7/04 | 1456 | | X | SLGW61MSD 1010 | Various | 7 | | X | X | X | X | X | X | | | 15 | | [illegible] |

Lab use only:
Custody Seal
used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 4

Turn Around Time: ☐ 24-48 hrs. ☐ 3 days ☐ 1 week ☒ Standard ☐ Other

| Relinquished by: (Signature) | Received by: (Signature) | Date: | Time: |
|---|---|---|---|
| [signature] | Fed-EX | | |
| Fed EX #845706611568 | [signature] | 6/8/04 | 0930 |
| | | | |

Note: Samples sent via FED EX, priority overnight delivery

[illegible] submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

000562

WHITE CLIENT FINAL REPORT [illegible] PINK CLIENT

GCAL-06 [illegible]98

# DATA VALIDATION REPORT

# FOR

# SKINNER LANDFILL SITE

**EARTH TECH: PROJECT NUMBER 54280**

**LABORATORY REPORT NUMBER 204061007**

**PROJECT MANAGER: Ron Rolker**

**Date: August 19, 2004**

**Revised Report Dated: August 30, 2005**

**Data Validator: Mark Kromis**

## CASE NARRATIVE

**The Inorganic portion of this report was revised do to the submission of additional data for the metals that were not reported by GCAL in the original data package. The following metals were included in the resubmission: Aluminum, Calcium, Cobalt, Magnesium, Manganese, Potassium, Sodium, and Vanadium.**

# APPENDIX C
# LIST OF ACRONYMS

| | |
|---|---|
| BFB | Bromofluorobenzene |
| CC | Continuing Calibration |
| CCV | Continuing Calibration Verification |
| CCB | Continuing Calibration Blanks |
| CLP | Contract Laboratory Program |
| CRDL | Contract Required Detection Limit |
| DFTPP | Decafluorotriphenylphosphine |
| GC/MS | Gas Chromatograph/Mass Spectrometer |
| IC | Initial Calibration |
| ICB | Initial Calibration Blank |
| IDL | Instrument Detection Limit |
| ICP | Inductively Coupled Plasma |
| ICS | Interference Check Sample |
| ICV | Initial Calibration Verification |
| ILM | Inorganic Analysis Multi-Media Multi-Concentration |
| INDAM | Individual A Mixture |
| INDBM | Individual B Mixture |
| mg/L | milligrams per liter |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| OLC | Organic Analysis Low Concentration |
| OLM | Organic Analysis Multi-Media Multi-Concentration |
| %D | Percent Difference |
| % RSD | Percent Relative Standard Deviation |
| PB | Preparation Blanks |
| QC | Quality Control |
| RF | Response Factor |
| RPD | Relative Percent Difference |
| RRF | Relative Response Factor |
| SDG | Sample Delivery Group |
| SOW | Statement of Work |
| µg/L | micrograms per liter |
| US EPA | United States Environmental Protection Agency |
| VOC | Volatile Organic Compounds |
| VTSR | Validated Time of Sample Receipt |

# DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204061007 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in June 2004, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Group (SDG) 204061007.

| GCAL # | Sample Description |
|---|---|
| 20406100701 | SKSW501010 |
| 20406100702 | SKSW50FD1010 |
| 20406100703 | SKSW50MS1010 |
| 20406100705 | SKSW50DUP1010 |
| 20406100706 | SKSW511010 |
| 20406100707 | SKSW521010 |
| 20406100708 | SKSWEB1010 |
| 20406100710 | SKSW501010 (DISS) |
| 20406100711 | SKSW50FD1010 (DISS) |
| 20406100712 | SKSW50MS1010 (DISS) |
| 20406100713 | SKSW50DUP1010 (DISS) |
| 20406100714 | SKSW511010 (DISS) |
| 20406100715 | SKSW521010 (DISS) |
| 20406100716 | SKSWEB1010 (DISS) |

## INTRODUCTION

Analyses of metals were performed according to Contract Laboratory Program (CLP)-Inorganic Analysis Multi-media Multi-concentration ILM04.1 Statement of Work (SOW). Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.
The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Calibration
   A. Initial Calibration (IC)
   B. Continuing Calibration (CC)
3. Blanks
4. Inductively Coupled Plasma (ICP) Interference Check Sample
5. Laboratory Control Sample (LCS)
6. Duplicate Analysis
7. Spike Sample Analysis
8. ICP Serial Dilution
9. System Performance
10. Documentation
11. Overall Assessment

## 1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples undergoing CLP protocol. Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. CALIBRATION

### A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

### B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

## 3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Preparation Blanks (PB) were analyzed at the appropriate frequencies. No constituents were detected in the ICB, CCB, and PB blanks above the corresponding Contract Required Detection Limit (CRDL) with the exception of Zinc in the CCB # 4, 5, 6, and 7. As per the National Functional Guidelines; sample results greater than the IDL but less than 5 times the amount found in any blank should be qualified as (U). Technically the run should have been terminated or at a minimum the samples should have been re-analyzed for Zinc.

## 4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

## 5. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

## 6. DUPLICATE ANALYSIS

The laboratory used sample SKSW501010 and SKSW501010 (dissolved) for the duplicate samples. The Relative Percent Difference (RPD) between the sample and duplicate results for the total and dissolved fractions were within the acceptance criteria (<20%) for all target compounds.

## 7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SKSW501010 and SKSW501010 (dissolved) for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) with the exception of Arsenic (134%), Selenium (136%) and Thallium (129%) in the total fraction. As per the National Functional Guidelines: if the percent recovery is greater than 125% qualify detected results for that analyte with "J".

## 8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 50 times above the IDL, its serial dilution (SD) analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interference's exist due to matrix effects. The serial dilution percent differences were within the acceptance criteria for all target analytes.

## 9. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

## 10. DOCUMENTATION

GCAL qualified the total metal results for Manganese and Potassium with (E) on the Form 1's to indicate that the SD between the original results and its diluted result exceeded the control limit. The SD was actually within the control limit therefore the data validator crossed out the (E) with a single line and dated and initialed the bottom of the report.

## 11. OVERALL ASSESSMENT

The percent recoveries for Arsenic in the Contract Required Detection Limit (CRDL) standards were 121%, 115%, and 95%. The percent recoveries for Chromium in the Contract Required Detection Limit (CRDL) standards were 79.1%, 74.1%, and 91.8%. The percent recoveries for Lead in the Contract Required Detection Limit (CRDL) standards were 98%, 101.9%, and 63.7%. The percent recoveries for Selenium in the Contract Required Detection Limit (CRDL) standards were 77%, 100%, and 115%. The percent recoveries for Zinc in the Contract Required Detection Limit (CRDL) standards were 90.6%, 68.5%, and 53.6%. The detected results for Arsenic, Chromium, Lead, Selenium, and Zinc greater than the IDL but less than two times the CRDL were qualified with as estimated with "J". The non-detected results for Chromium, Lead, Selenium, and Zinc were qualified with "UJ". The results are acceptable with the validator-added qualifiers.

## DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204061007 SEMIVOLATILE ORGANICS

Validation of the Gas Chromatograph/Mass Spectrometer (GC/MS) semi-volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in June 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. The results were reported by GCAL under SDG 204061007.

| GCAL # | Sample Description |
|---|---|
| 20406100701 | SKSW501010 |
| 20406100702 | SKSW50FD1010 |
| 20406100703 | SKSW50MS1010 |
| 20406100704 | SKSW50MSD1010 |
| 20406100706 | SKSW511010 |
| 20406100707 | SKSW521010 |
| 20406100708 | SKSWEB1010 |

## INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various data qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U — The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J — The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ — The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the semivolatile data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Internal Standards Performance
8. Compound Identification
9. Constituent Quantitation and Reported Detection Limits
10. System Performance
11. Documentation
12. Overall Assessment

## 1. HOLDING TIMES

All samples were initially extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. GC/MS TUNING

The samples were analyzed on a single GC/MS system, identified as MSSV3. One decafluorotriphenylphosphine (DFTPP) tune was run representing the shift in which the standards and samples were analyzed. The DFTPP tune is acceptable.

## 3. CALIBRATION

### A. Initial Calibration

One IC dated 6/15/04 was analyzed in support of the semivolatile sample analyses. Documentation of the IC was present in the data package, and the Relative Response Factor (RRF), as well as percent % RSD values were accurately reported for all target compounds. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all semi-volatile compounds. The RRF's and the average RRF were within the acceptance criteria specified in the method for all reported analytes with the exception of 4-Chloroaniline. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Diethylphthalate (34.5%). The lowest point of the calibration curve was dropped for Diethylphthalate and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Diethylphthalate were not detected in the associated samples therefore data qualification was not required. The detected results for Di-n-butylphthalate were mitigated do to the presence of Di-n-butylphthalate in the associated method blank.

As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

### B. Continuing Calibration

One CC dated 6/15/04 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC dated 6/15/04 were within the acceptance criteria with the exception of 4-Chloroaniline. The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 6/15/04 were within the acceptance criteria with the exception the %D for 2,4-Dintorphenol. As per the National Functional Guidelines, if the %D exceeds the acceptance criteria qualify detected results for that analyte with "J" and non-detected results for that analyte with "UJ". The 4-Chloroaniline results were previously qualified under Section 3A titled "Initial calibration".

## 4. BLANKS

Two laboratory semivolatile methods blank and one equipment blank were analyzed with this SDG. The results are summarized below.

<u>Method Blank (0610SBLK)</u>

Bis-(2-ethylhexyl) phthalate (131 ppb) and Di-n-butylphthalate (0.529) were detected in method blank extracted on 6/10/04.

Method Blank (0617SBLK)

Bis-(2-ethylhexyl) phthalate (1.59 ppb) was detected in method blank extracted on 6/17/04

Equipment Blank (SKSWEB1010)

Bis-(2-ethylhexyl) phthalate (3.91 ppb), Di-n-butylphthalate (0.672), and Diethylphthalate (1.27 ppb) were detected in the equipment blank collected on 6/10/04. The Bis-(2-ethylhexyl) phthalate and Di-n-butylphthalate result were mitigated by the presence of Bis-(2-ethylhexyl) phthalate and Di-n-butylphthalate in the associated extraction blank. Diethylphthalate was not detected in the associated samples.

## 5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds were recovered within acceptable control limits.

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

Sample SKSW501010 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of the 4-Nitorphenol and Pentachlorophenol. The %RPD between the MS/MSD are within the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD data alone.

## 7. INTERNAL STANDARDS PERFORMANCE

Internal standard areas and retention times were within acceptable limits for the reported semivolatile sample analyses.

## 8. COMPOUND IDENTIFICATION

All reported semivolatile constituents were correctly identified with supporting chromatograms present in the data package.

## 9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for semivolatile constituents with the exception of the results for Bis-(2-ethylhexyl) phthalate in the re-analyzed samples. The data validator re-calculated the constituent quantitations and reported detection limits, then manually made the correction on the Form 1's.

## 10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data submitted for review.

## 11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the preparation method off of the CLP Form 1's and the Date Extracted off of the CLP Form 1's and IV's. The data validator manually wrote the preparation method and Date Extracted on the appropriate forms. GCAL also left the "B" qualifier off of the CLP Form 1's for the compound Di-n-butylphthalate therefore the data validator inserted a "B" qualifier in the "Q" column of the CLP Form 1's. The "B" qualifier indicates that the analyte was detected in the associated method blank.

## 12. OVERALL ASSESSMENT

It should be noted that the laboratory re-extracted the samples and extraction blank on 6/17/04 due to the high concentration of Bis-(2-ethylhexyl) phthalate (131 ppb) that was detected in original method blank extracted on 6/10/04. The concentration of Bis-(2-ethylhexyl) phthalate in the re-extracted blank was 1.59 ppb which was approximately that same concentration of Bis-(2-ethylhexyl) phthalate that was detected in some of the samples. The samples were re-extracted outside of the recommended holding time therefore the data validator suggest using the results from the initial extraction. The results are acceptable with the validator-added qualifiers.

## DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204061007 VOLATILE ORGANIC

Validation of the GC/MS volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in June 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204061007.

| GCAL # | Sample Description |
|---|---|
| 20406100701 | SKSW501010 |
| 20406100702 | SKSW50FD1010 |
| 20406100703 | SKSW50MS1010 |
| 20406100704 | SKSW50MSD1010 |
| 20406100706 | SKSW511010 |
| 20406100707 | SKSW521010 |
| 20406100708 | SKSWEB1010 |
| 20406100709 | SKSWTB1010 |

## INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Low Concentration OLC02.0 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The volatiles data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Laboratory Control Sample
8. Internal Standards Performance
9. Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. System Performance
12. Documentation
13. Overall Assessment

## 1. HOLDING TIMES

All samples for Volatile Organic Compounds (VOC) analyses were analyzed within the 14-day technical holding time and the 10-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. GC/MS TUNING

The samples were analyzed on one GC/MS system, identified as MSV1. Two bromofluorobenzene (BFB) tunes were run. The BFB tunes are acceptable.

## 3. CALIBRATION

### A. Initial Calibration

Two IC's dated 6/16/04 and 6/17/04 were analyzed on instrument MSV1 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards is present in the data package, and RRF's as well as %RSD values were accurately reported. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all volatile compounds. The %RSD's were within the acceptance criteria specified in the method for all target analytes.

The RRF's and the average RRF for the IC dated 6/16/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone, 2-Butanone, and 2-Hexanone. The %RSD's were within the acceptance criteria specified in the method for all target analytes with exception of Acetone. As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

The RRF's and the average RRF for the IC dated 6/17/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone and 2-Butanone. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone. As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

### B. Continuing Calibration

Two CC's dated 6/16/04 and 6/17/04 were analyzed on instrument MSV1 in support of the volatile sample analyses reported in the data submissions.

The percent difference (%D) between the average RRF's and the CC RF's were within the acceptance criteria for all target analytes. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone and 2-Butanone associated with the CC's dated 6/16/04 and 6/17/04. The Acetone and 2-Butanone results were previously qualified under section 3A above.

## 4. BLANKS

Two laboratory volatile method blanks, storage blank, Equipment Blank, and Trip Blank were analyzed with this SDG. The results are summarized below.

MB173742

There was no target compounds detected in the method blank analyzed on 6/16/04.

MB174236

There was no target compounds detected in the method blank analyzed on 6/17/04.

Storage Blank (VHBLK01)

There were no target compounds detected in the storage blank analyzed on 6/17/04.

Trip Blank (SKSWTB1010)

Sulfur dioxide was detected as a TIC at a concentration of 466 ppb.

Equipment Blank (SKSWEB1010)

Sulfur dioxide was detected as a TIC at a concentration of 623 ppb.

## 5. SYSTEM MONITORING COMPOUND RECOVERY

All reported volatile system monitoring compounds were recovered within acceptable control limits (80%-120%) for all samples with the exception 4-Bromofluorobenzene associated with sample SKSW50FD1010 (121%). As per the National Functional Guidelines, if the system monitoring compound exceeds the acceptance limits then qualify detected results for that sample with "J".

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSW501010 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria except for 1,2-Dichloroethane associated with the MS and cis-1,3-Dichloropropene associated with the MS/MSD. The %RPD between the MS/MSD were within the acceptance criteria. As per the National Functional Guidelines there is no action taken on MS/MSD data alone.

## 7. LABORATORY CONTROL SAMPLE

A LCS/LCS duplicate and a LCS were analyzed in conjunction with this SDG. Recoveries were within the control limit for all constituents.

## 8. INTERNAL STANDARDS PERFORMANCE

Internal Standard (IS) areas and retention times were within acceptable limits for the reported volatile sample analyses.

## 9. COMPOUND IDENTIFICATION

All reported VOCs were correctly identified with supporting chromatograms present in the data package.

## 10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for VOCs.

## 11. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

## 12. DOCUMENTATION

The documentation appeared accurate and in order.

## 13. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

## DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 204061007 PESTICIDES

Validation of the Gas Chromatography (GC) pesticides data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in June 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204061007.

| GCAL # | Sample Description |
|---|---|
| 20406100701 | SKSW501010 |
| 20406100702 | SKSW50FD1010 |
| 20406100703 | SKSW50MS1010 |
| 20406100704 | SKSW50MSD1010 |
| 20406100706 | SKSW511010 |
| 20406100707 | SKSW521010 |
| 20406100708 | SKSWEB1010 |

## INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the pesticide data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Gas Chromatograph/Electronic Capture Detector (GC/ECD) Instrument Performance Check
3. IC
4. Calibration Verification
5. Blanks
6. Surrogate Spikes
7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)
8. Pesticide Cleanup Checks
9. Target Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. Documentation
12. Overall Assessment

## 1. HOLDING TIMES

All samples were extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. GC/ECD INSTRUMENT PERFORMANCE CHECK

The Performance Evaluation Mixture (PEM) was analyzed at the correct frequency. Absolute retention times were within limits.

The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check.

The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM). The percent breakdown for both 4,4-DDT and Endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4-DDT and Endrin in each PEM was less than 30.0% for both GC columns.

## 3. INITIAL CALIBRATION

Individual standard mixtures A and B were analyzed at the correct frequencies and concentrations. The percent resolution criterion was met for Individual standard mixtures A and B.

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20% with the exception of alpha-BHC (23.4%), delta-BHC (27.0), and 4,4'-DDE (20.7%) on column DB-1701. As per the National Functional Guidelines, if the %RSD criteria are not met for the compound(s) being quantified, qualify all associated positive quantitative results with "J" and the sample quantitation limits for non-detected target compounds with "UJ".

The multi-component target compounds were analyzed separately on both columns at a single concentration level. Retention times were determined from a minimum of three peaks.

## 4. CALIBRATION VERIFICATION

Absolute retention times were within appropriate time retention windows

## 5. BLANKS

One laboratory method blank and an Equipment blank were analyzed with this SDG. The results are summarized below.

<u>Method Blank 172726</u>

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 6/10/04.

Equipment Blank SKSWEB1010

No constituents were detected above the laboratory-reporting limit in the equipment blank collected on 6/09/04.

## 6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria for all samples.

## 7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSW501010 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria. The %RPD between the MS/MSD are within the acceptance criteria.

## 8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup.

## 9. TARGET COMPOUND IDENTIFICATION

All reported pesticide data were correctly identified with supporting chromatograms present in the data package.

## 10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for pesticide constituents.

## 11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the preparation method off of the CLP Form 1's and the Date Extracted off of the CLP Form 1's and IV's. The data validator manually wrote the preparation method and Date Extracted on the appropriate forms.

## 12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

## REFERENCES

US EPA, 1994. *National Functional Guidelines for Inorganic Data Review.*

US EPA, 1999. *National Functional Guidelines for Organic Data Review.*

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

*NELAP CERTIFICATE NUMBER 01955*

# ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

**Report Date** 06/30/2004

**GCAL Report** 204061007

| | |
|---|---|
| ***Deliver To*** | Earth Tech<br>200 Vine Street<br>Wilder, KY 41076<br>859-442-2300 |
| ***Attn*** | Pat Higgins |

***Customer*** Earth Tech

***Project*** Skinner Landfill

000001
RESUBMITTED

7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402 • Phone 225.769.4900 • Fax 225.767.5717

# CASE NARRATIVE

**Client:** Earth Tech **Report:** 204061007

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

In the ILM04.1 CLP metals, Forms I, II, III, V, VI, VII, IX, X, and XIV were resubmitted to report TAL metals.

## VOLATILES MASS SPECTROMETRY

In the OLC02.1 - CLP Volatiles analysis of sample 20406100702 (SKSW50FD1010), the recovery for the surrogate 4-Bromofluorobenzene was above the upper control limit. The remaining surrogates were all within control limits.

In the volatile MS/MSD analysis for batch 275891, the recovery for 1,2-Dichloroethane was above recovery limits in the MS and the recovery for cis-1,3-dichloropropene was above recovery limits in the MS/MSD.

## SEMI-VOLATILES MASS SPECTROMETRY

In prep batch 275540, the method blank (172721) had a hit for bis(2-ethylhexyl)phthalate. The samples were re-extracted outside of holding time. This data is being submitted as additional data. The MS/MSD exhibited sporadic recovery failures. These recoveries were within limits in the LCS. This is attributed to matrix interference.

## METALS

In the ILM04.1 - CLP Metals analysis for prep batch 275566, the MS recoveries were outside the control limits for Arsenic, Selenium, and Thallium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 84% for Arsenic and 93% for Thallium. The Sample/Duplicate RPD for Beryllium, Copper, and Nickel are not applicable because the sample and/or duplicate concentration is less than five times the reporting limit. Arsenic, Barium, Chromium, Iron, Lead and Zinc RPD's are above the control limits for sample SKGW61DUP1010.

The Sample/Duplicate RPD for Nickel for prep batch 275568 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.



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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW501010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100701

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 100 | B | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 53.0 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.9 | B | | P | |
| 7440-70-2 | Calcium | 93500 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | UJ |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 102 | | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-95-4 | Magnesium | 30200 | | | P | |
| 7439-96-5 | Manganese | 8.1 | B | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.1 | U | | P | |
| 7440-09-7 | Potassium | 3230 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 40300 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | N | P | |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

8/30/05 MSN

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW50FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100702

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 97.6 | B | | P | |
| 7440-36-0 | Antimony | 5.7 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 54.5 | B | | P | |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 1.2 | B | | P | |
| 7440-70-2 | Calcium | 97800 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | UJ |
| 7440-48-4 | Cobalt | 0.6 | B | | P | |
| 7440-50-8 | Copper | 1.6 | B | | P | |
| 7439-89-6 | Iron | 92.2 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-95-4 | Magnesium | 29000 | | | P | |
| 7439-96-5 | Manganese | 10.9 | B | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.0 | B | | P | |
| 7440-09-7 | Potassium | 3400 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 42100 | | | P | |
| 7440-28-0 | Thallium | 9.4 | B | N | P | J |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

8/30/05
MCC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW50MS1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100703

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 2110 | | | P | |
| 7440-36-0 | Antimony | 108 | | | P | |
| 7440-38-2 | Arsenic | 53.6 | | N | P | J |
| 7440-39-3 | Barium | 2120 | | | P | |
| 7440-41-7 | Beryllium | 51.8 | | | P | |
| 7440-43-9 | Cadmium | 52.9 | | | P | |
| 7440-70-2 | Calcium | 96600 | | | P | |
| 7440-47-3 | Chromium | 206 | | | P | J |
| 7440-48-4 | Cobalt | 513 | | | P | |
| 7440-50-8 | Copper | 260 | | | P | |
| 7439-89-6 | Iron | 1130 | | | P | |
| 7439-92-1 | Lead | 19.4 | | | P | |
| 7439-95-4 | Magnesium | 30300 | | | P | |
| 7439-96-5 | Manganese | 533 | | | P | |
| 7439-97-6 | Mercury | 5.7 | | | AV | |
| 7440-02-0 | Nickel | 526 | | | P | |
| 7440-09-7 | Potassium | 3090 | B | | P | |
| 7782-49-2 | Selenium | 13.6 | | N | P | J |
| 7440-22-4 | Silver | 51.2 | | | P | |
| 7440-23-5 | Sodium | 38500 | | | P | |
| 7440-28-0 | Thallium | 68.4 | | N | P | J |
| 7440-62-2 | Vanadium | 512 | | | P | |
| 7440-66-6 | Zinc | 498 | | | P | J |
| 57-12-5 | Cyanide | 81.9 | | | AS | |

8/30/05
MSN

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW50DUP1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100705

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 103 | B | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 51.4 | B | | P | |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 1.1 | B | | P | |
| 7440-70-2 | Calcium | 90500 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | UJ |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 5.4 | B | | P | |
| 7439-89-6 | Iron | 96.4 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-95-4 | Magnesium | 25400 | | | P | |
| 7439-96-5 | Manganese | 8.3 | B | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.7 | B | | P | |
| 7440-09-7 | Potassium | 3460 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 41900 | | | P | |
| 7440-28-0 | Thallium | 6.8 | B | N | P | J |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

8/30/05 MFM

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW511010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100706

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 55.3 | U | | P | |
| 7440-36-0 | Antimony | 4.6 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 48.9 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | B | | P | |
| 7440-43-9 | Cadmium | 0.7 | B | | P | |
| 7440-70-2 | Calcium | 89900 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | UJ |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 63.6 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-95-4 | Magnesium | 26900 | | | P | |
| 7439-96-5 | Manganese | 7.1 | B | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.3 | B | | P | |
| 7440-09-7 | Potassium | 2870 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 40900 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | N | P | |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

8/30/05
MSR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW521010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100707

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 100 | B | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 51.6 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 1.1 | B | | P | |
| 7440-70-2 | Calcium | 98900 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | UJ |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 81.7 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-95-4 | Magnesium | 29700 | | | P | |
| 7439-96-5 | Manganese | 9.8 | B | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.4 | B | | P | |
| 7440-09-7 | Potassium | 2940 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 40000 | | | P | |
| 7440-28-0 | Thallium | 10.2 | | N | P | J |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

8/30/05 MJW

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWEB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100708

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 55.3 | U | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 0.3 | U | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.3 | U | | P | |
| 7440-70-2 | Calcium | 17.2 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | UJ |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 2.1 | B | | P | |
| 7439-89-6 | Iron | 9.1 | U | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-95-4 | Magnesium | 66.9 | U | | P | |
| 7439-96-5 | Manganese | 0.6 | U | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.1 | U | | P | |
| 7440-09-7 | Potassium | 97.8 | U | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 340 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | N | P | |
| 7440-62-2 | Vanadium | 1.3 | B | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

8/30/05 [illegible]

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW501010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100710

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 74.3 | B | | P | |
| 7440-36-0 | Antimony | 4.7 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 50.9 | B | | P | |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 1.2 | B | | P | |
| 7440-70-2 | Calcium | 92300 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | UJ |
| 7440-48-4 | Cobalt | 0.6 | B | | P | |
| 7440-50-8 | Copper | 1.4 | B | | P | |
| 7439-89-6 | Iron | 36.5 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-95-4 | Magnesium | 28600 | | | P | |
| 7439-96-5 | Manganese | 5.0 | B | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.8 | B | | P | |
| 7440-09-7 | Potassium | 3160 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 38700 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

8/30/05 MM

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW50FD1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100711

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 84.2 | B | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 52.4 | B | | P | |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 1.1 | B | | P | |
| 7440-70-2 | Calcium | 95700 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | UJ |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 2.3 | B | | P | |
| 7439-89-6 | Iron | 40.2 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 30000 | | | P | |
| 7439-96-5 | Manganese | 5.2 | B | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.9 | B | | P | |
| 7440-09-7 | Potassium | 3200 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | | P | BUJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 39600 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

8/30/05
MR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW50MS1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100712

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 1980 | | | P | |
| 7440-36-0 | Antimony | 109 | | | P | |
| 7440-38-2 | Arsenic | 46.1 | | | P | J |
| 7440-39-3 | Barium | 2060 | | | P | |
| 7440-41-7 | Beryllium | 50.2 | | | P | |
| 7440-43-9 | Cadmium | 52.0 | | | P | |
| 7440-70-2 | Calcium | 92800 | | | P | |
| 7440-47-3 | Chromium | 198 | | | P | J |
| 7440-48-4 | Cobalt | 498 | | | P | |
| 7440-50-8 | Copper | 252 | | | P | |
| 7439-89-6 | Iron | 1040 | | | P | |
| 7439-92-1 | Lead | 18.8 | | | P | J |
| 7439-95-4 | Magnesium | 28800 | | | P | |
| 7439-96-5 | Manganese | 514 | | | P | |
| 7439-97-6 | Mercury | 5.6 | | | AV | |
| 7440-02-0 | Nickel | 509 | | | P | |
| 7440-09-7 | Potassium | 3250 | B | | P | |
| 7782-49-2 | Selenium | 9.2 | | | P | J |
| 7440-22-4 | Silver | 49.1 | | | P | |
| 7440-23-5 | Sodium | 39700 | | | P | |
| 7440-28-0 | Thallium | 58.2 | | | P | J |
| 7440-62-2 | Vanadium | 497 | | | P | |
| 7440-66-6 | Zinc | 479 | | | P | J |

8/30/05 MR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW50DUP1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100713

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 82.5 | B | | P | |
| 7440-36-0 | Antimony | 5.1 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 51.3 | B | | P | |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 1.3 | B | | P | |
| 7440-70-2 | Calcium | 93700 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | UJ |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.4 | B | | P | |
| 7439-89-6 | Iron | 38.2 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-95-4 | Magnesium | 28900 | | | P | |
| 7439-96-5 | Manganese | 5.0 | B | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.9 | B | | P | |
| 7440-09-7 | Potassium | 3180 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 39700 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

8/30/05
MJ

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW511010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100714

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 89.6 | B | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 46.2 | B | | P | |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 1.2 | B | | P | |
| 7440-70-2 | Calcium | 89600 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | UJ |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 41.5 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 29200 | | | P | |
| 7439-96-5 | Manganese | 4.3 | B | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.5 | B | | P | |
| 7440-09-7 | Potassium | 3010 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 41100 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

8/30/05
[illegible]

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



000503
RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW521010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100715

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 81.9 | B | | P | |
| 7440-36-0 | Antimony | 5.5 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 50.7 | B | | P | |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 1.1 | B | | P | |
| 7440-70-2 | Calcium | 92700 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | UJ |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.5 | B | | P | |
| 7439-89-6 | Iron | 52.3 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 29200 | | | P | |
| 7439-96-5 | Manganese | 5.1 | B | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.1 | B | | P | |
| 7440-09-7 | Potassium | 3260 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 39400 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

8/30/05 MSL

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



090504
RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWEB1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID: 20406100716

Level: ( low / med ) Date Received: 06/10/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 82.3 | B | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 0.3 | U | | P | |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 1.4 | B | | P | |
| 7440-70-2 | Calcium | 35.6 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | UJ |
| 7440-48-4 | Cobalt | 0.9 | B | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 22.1 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | |
| 7439-95-4 | Magnesium | 66.9 | U | | P | |
| 7439-96-5 | Manganese | 0.6 | U | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.4 | B | | P | |
| 7440-09-7 | Potassium | 97.8 | U | | P | |
| 7782-49-2 | Selenium | 4.4 | U | | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 340 | U | | P | |
| 7440-28-0 | Thallium | 6.5 | B | | P | |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

8/30/05
MKW

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Calibration Source: 106-89-3 CPI Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 06/21/04 Time: 0913

## CRDL STANDARD

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---|---|---|---|---|---|---|
| Antimony | 120 | 117 | 97 | ug/L | ILM04.1 - CLP Metals | P |
| Arsenic | 20.0 | 24.1 | 121 | ug/L | ILM04.1 - CLP Metals | P |
| Beryllium | 10.0 | 9.60 | 96 | ug/L | ILM04.1 - CLP Metals | P |
| Cadmium | 10.0 | 10.0 | 100 | ug/L | ILM04.1 - CLP Metals | P |
| Chromium | 20.0 | 15.8 | 79 | ug/L | ILM04.1 - CLP Metals | P |
| Cobalt | 100 | 95.1 | 95 | ug/L | ILM04.1 - CLP Metals | P |
| Copper | 50.0 | 47.1 | 94 | ug/L | ILM04.1 - CLP Metals | P |
| Lead | 6.00 | 5.90 | 99 | ug/L | ILM04.1 - CLP Metals | P |
| Manganese | 30.0 | 30.7 | 102 | ug/L | ILM04.1 - CLP Metals | P |
| Nickel | 80.0 | 80.7 | 101 | ug/L | ILM04.1 - CLP Metals | P |
| Selenium | 10.0 | 7.70 | 77 | ug/L | ILM04.1 - CLP Metals | P |
| Silver | 20.0 | 19.1 | 95 | ug/L | ILM04.1 - CLP Metals | P |
| Thallium | 20.0 | 16.5 | 83 | ug/L | ILM04.1 - CLP Metals | P |
| Vanadium | 100 | 94.9 | 95 | ug/L | ILM04.1 - CLP Metals | P |
| Zinc | 40.0 | 36.2 | 91 | ug/L | ILM04.1 - CLP Metals | P |



RESUBMITTED

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Calibration Source: 106-89-3 CPI Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 06/21/04 Time: 1154

## CRDL STANDARD

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---|---|---|---|---|---|---|
| Antimony | 120 | 120 | 100 | ug/L | ILM04.1 - CLP Metals | P |
| Arsenic | 20.0 | 23.0 | 115 | ug/L | ILM04.1 - CLP Metals | P |
| Beryllium | 10.0 | 9.90 | 99 | ug/L | ILM04.1 - CLP Metals | P |
| Cadmium | 10.0 | 10.8 | 108 | ug/L | ILM04.1 - CLP Metals | P |
| Chromium | 20.0 | 14.8 | 74 | ug/L | ILM04.1 - CLP Metals | P |
| Cobalt | 100 | 99.0 | 99 | ug/L | ILM04.1 - CLP Metals | P |
| Copper | 50.0 | 47.1 | 94 | ug/L | ILM04.1 - CLP Metals | P |
| Lead | 6.00 | 6.10 | 102 | ug/L | ILM04.1 - CLP Metals | P |
| Manganese | 30.0 | 31.6 | 105 | ug/L | ILM04.1 - CLP Metals | P |
| Nickel | 80.0 | 84.3 | 105 | ug/L | ILM04.1 - CLP Metals | P |
| Selenium | 10.0 | 10.0 | 100 | ug/L | ILM04.1 - CLP Metals | P |
| Silver | 20.0 | 18.4 | 92 | ug/L | ILM04.1 - CLP Metals | P |
| Thallium | 20.0 | 19.8 | 99 | ug/L | ILM04.1 - CLP Metals | P |
| Vanadium | 100 | 97.9 | 98 | ug/L | ILM04.1 - CLP Metals | P |
| Zinc | 40.0 | 27.4 | 69 | ug/L | ILM04.1 - CLP Metals | P |




RESUBMITTED

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Calibration Source: 106-89-3 CPI Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 06/21/04 Time: 1457

## CRDL STANDARD

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---|---|---|---|---|---|---|
| Antimony | 120 | 111 | 92 | ug/L | ILM04.1 - CLP Metals | P |
| Arsenic | 20.0 | 18.9 | 95 | ug/L | ILM04.1 - CLP Metals | P |
| Beryllium | 10.0 | 9.50 | 95 | ug/L | ILM04.1 - CLP Metals | P |
| Cadmium | 10.0 | 9.80 | 98 | ug/L | ILM04.1 - CLP Metals | P |
| Chromium | 20.0 | 18.4 | 92 | ug/L | ILM04.1 - CLP Metals | P |
| Cobalt | 100 | 95.9 | 96 | ug/L | ILM04.1 - CLP Metals | P |
| Copper | 50.0 | 48.4 | 97 | ug/L | ILM04.1 - CLP Metals | P |
| Lead | 6.00 | 3.80 | 64 | ug/L | ILM04.1 - CLP Metals | P |
| Manganese | 30.0 | 30.6 | 102 | ug/L | ILM04.1 - CLP Metals | P |
| Nickel | 80.0 | 80.5 | 101 | ug/L | ILM04.1 - CLP Metals | P |
| Selenium | 10.0 | 11.5 | 115 | ug/L | ILM04.1 - CLP Metals | P |
| Silver | 20.0 | 20.0 | 100 | ug/L | ILM04.1 - CLP Metals | P |
| Thallium | 20.0 | 17.6 | 88 | ug/L | ILM04.1 - CLP Metals | P |
| Vanadium | 100 | 95.9 | 96 | ug/L | ILM04.1 - CLP Metals | P |
| Zinc | 40.0 | 21.4 | 54 | ug/L | ILM04.1 - CLP Metals | P |

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204061007
Calibration Source: 106-89-3 CPI
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 06/21/04 Time: 1809

## CRDL STANDARD

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---|---|---|---|---|---|---|
| Antimony | 120 | 121 | 100 | ug/L | ILM04.1 - CLP Metals | P |
| Arsenic | 20.0 | 19.7 | 98 | ug/L | ILM04.1 - CLP Metals | P |
| Beryllium | 10.0 | 10.0 | 100 | ug/L | ILM04.1 - CLP Metals | P |
| Cadmium | 10.0 | 10.5 | 105 | ug/L | ILM04.1 - CLP Metals | P |
| Chromium | 20.0 | 16.5 | 82 | ug/L | ILM04.1 - CLP Metals | P |
| Cobalt | 100 | 98.1 | 98 | ug/L | ILM04.1 - CLP Metals | P |
| Copper | 50.0 | 48.3 | 97 | ug/L | ILM04.1 - CLP Metals | P |
| Lead | 6.00 | 4.50 | 75 | ug/L | ILM04.1 - CLP Metals | P |
| Manganese | 30.0 | 31.6 | 105 | ug/L | ILM04.1 - CLP Metals | P |
| Nickel | 80.0 | 83.6 | 105 | ug/L | ILM04.1 - CLP Metals | P |
| Selenium | 10.0 | 13.8 | 138 | ug/L | ILM04.1 - CLP Metals | P |
| Silver | 20.0 | 19.6 | 98 | ug/L | ILM04.1 - CLP Metals | P |
| Thallium | 20.0 | 22.5 | 112 | ug/L | ILM04.1 - CLP Metals | P |
| Vanadium | 100 | 98.0 | 98 | ug/L | ILM04.1 - CLP Metals | P |
| Zinc | 40.0 | 21.3 | 53 | ug/L | ILM04.1 - CLP Metals | P |



000510B
ADDITION

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL

Contract:

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204061007

Calibration Source: 106-86-8 EXAXOL

Instrument ID: FIMS1 ICAL ID: 1

Date Analyzed: 06/24/04 Time: 0930

## *CRDL STANDARD*

| *Analyte* | *True* | *Found* | *CAL %R* | *Units* | *Method* | *Type* |
|---|---|---|---|---|---|---|
| Mercury | 0.200 | 0.200 | 111 | ug/L | ILM04.1 CLP HG | AV |



000510
ADDITION

U.S. EPA - CLP
3
BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Preparation Blank Matrix: (soil / water) Water

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

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) 1 | C | 2 | C | 3 | C | Prepa-ration Blank | C | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 59.7 | B | 55.3 | U | 55.3 | U | 80.1 | B | 55.300 | U | P |
| Antimony | 4.9 | B | 3.9 | U | 3.9 | U | 3.9 | U | 3.900 | U | P |
| Arsenic | 5.4 | U | 5.4 | U | 5.4 | U | 5.4 | U | 5.400 | U | P |
| Barium | 0.3 | U | 0.3 | U | 0.4 | B | 0.3 | U | 0.300 | U | P |
| Beryllium | 0.3 | B | 0.2 | B | 0.2 | U | 0.4 | B | 0.200 | U | P |
| Cadmium | 0.8 | B | 0.6 | B | 0.3 | U | 0.9 | B | 0.811 | B | P |
| Calcium | 10.2 | B | 12.8 | B | -8.3 | B | 17.2 | B | 10.519 | B | P |
| Chromium | -3.1 | B | -3.1 | B | 1.5 | U | -5.5 | B | -3.390 | B | P |
| Cobalt | 0.6 | U | 0.6 | U | 0.6 | U | 0.7 | B | 0.600 | U | P |
| Copper | -1.3 | B | 1.2 | U | 1.2 | U | 1.2 | U | 1.200 | U | P |
| Iron | 12.1 | B | 15.3 | B | 9.1 | U | 23.3 | B | 13.116 | B | P |
| Lead | 2.4 | U | 2.4 | U | 2.4 | U | 2.4 | U | 2.400 | U | P |
| Magnesium | 66.9 | U | 66.9 | U | 66.9 | U | 86.7 | B | 66.900 | U | P |
| Manganese | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 0.600 | U | P |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.100 | U | AV |
| Nickel | 1.2 | B | 1.1 | U | 1.1 | U | 1.7 | B | 1.100 | U | P |
| Potassium | 97.8 | U | 97.8 | U | 97.8 | U | 97.8 | U | 97.800 | U | P |
| Selenium | 4.4 | U | 4.4 | U | 4.4 | U | -4.6 | B | 4.400 | U | P |
| Silver | 0.9 | U | 0.9 | U | 0.9 | U | -1.6 | B | -1.146 | B | P |
| Sodium | 339.7 | U | 339.7 | U | 339.7 | U | 339.7 | U | 340.000 | U | P |
| Thallium | 6.3 | U | 6.3 | U | 6.3 | U | 6.3 | U | 6.300 | U | P |
| Vanadium | 1.1 | U | 1.1 | U | 1.5 | B | 1.1 | U | 1.100 | U | P |
| Zinc | -2.3 | B | -10.1 | B | -17.4 | B | -17.9 | B | -14.460 | B | P |
| Cyanide | 1.0 | U | 0.5 | U | 0.5 | U | | | 0.500 | U | AS |



000511
RESUBMITTED

U.S. EPA - CLP
3
BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Preparation Blank Matrix: (soil / water) Water

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

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) 4 | C | 5 | C | 6 | C | Prepa-ration Blank | C | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | | 55.3 | U | 55.3 | U | 59.0 | B | 55.300 | U | P |
| Antimony | | | 3.9 | U | 3.9 | U | 3.9 | U | 3.900 | U | P |
| Arsenic | | | 5.4 | U | 5.4 | U | 5.4 | U | 5.400 | U | P |
| Barium | | | 0.3 | U | 0.3 | U | 0.3 | U | 0.300 | U | P |
| Beryllium | | | 0.2 | U | 0.2 | U | 0.4 | B | 0.284 | B | P |
| Cadmium | | | 0.7 | B | 0.3 | B | 1.3 | B | 1.119 | B | P |
| Calcium | | | 9.8 | B | 7.3 | U | 25.0 | B | 8.413 | B | P |
| Chromium | | | -2.6 | B | -1.7 | B | -7.5 | B | -4.554 | B | P |
| Cobalt | | | 0.6 | B | 0.6 | U | 0.7 | B | 0.792 | B | P |
| Copper | | | 1.2 | U | 1.2 | U | -1.4 | B | 1.200 | U | P |
| Iron | | | 9.8 | B | 9.1 | U | 24.4 | B | 17.451 | B | P |
| Lead | | | -2.6 | B | 2.4 | U | 2.4 | U | 2.400 | U | P |
| Magnesium | | | 66.9 | U | -81.8 | B | 73.3 | B | 66.900 | U | P |
| Manganese | | | 0.6 | U | 0.6 | U | 0.6 | U | 0.600 | U | P |
| Mercury | | | 0.1 | U | 0.1 | U | | | 0.100 | U | AV |
| Nicke | | | 1.1 | U | 1.1 | U | 1.7 | B | 1.278 | B | P |
| Potassium | | | 97.8 | U | 97.8 | U | 97.8 | U | 97.800 | U | P |
| Selenium | | | 4.4 | U | 4.4 | U | 4.4 | U | -5.897 | B | P |
| Silver | | | 0.9 | U | 0.9 | U | -1.8 | B | -1.986 | B | P |
| Sodium | | | 339.7 | U | 339.7 | U | -351.8 | B | 340.000 | U | P |
| Thallium | | | 6.3 | U | -8.5 | B | 6.3 | U | 6.300 | U | P |
| Vanadium | | | 1.1 | U | 1.1 | U | -2.0 | B | 1.100 | U | P |
| Zinc | | | -20.4 | | -22.0 | | -20.1 | | -15.923 | B | P |
| Cyanide | | | | | | | | | | | AS |



000512
RESUBMITTED

U.S. EPA - CLP
3
BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Preparation Blank Matrix: (soil / water)

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

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) 7 | C | 8 | C | 9 | C | Prepa-ration Blank | C | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | | 68.4 | B | | | | | | | P |
| Antimony | | | 3.9 | U | | | | | | | P |
| Arsenic | | | 5.4 | U | | | | | | | P |
| Barium | | | 0.3 | U | | | | | | | P |
| Beryllium | | | 0.3 | B | | | | | | | P |
| Cadmium | | | 0.5 | B | | | | | | | P |
| Calcium | | | 12.9 | B | | | | | | | P |
| Chromium | | | -3.9 | B | | | | | | | P |
| Cobalt | | | 0.6 | U | | | | | | | P |
| Copper | | | 1.2 | U | | | | | | | P |
| Iron | | | 17.7 | B | | | | | | | P |
| Lead | | | 2.4 | U | | | | | | | P |
| Magnesium | | | 66.9 | U | | | | | | | P |
| Manganese | | | 0.6 | U | | | | | | | P |
| Mercury | | | | | | | | | | | AV |
| Nickel | | | 1.4 | B | | | | | | | P |
| Potassium | | | 97.8 | U | | | | | | | P |
| Selenium | | | 4.4 | U | | | | | | | P |
| Silver | | | -1.3 | B | | | | | | | P |
| Sodium | | | 339.7 | U | | | | | | | P |
| Thallium | | | 6.3 | U | | | | | | | P |
| Vanadium | | | 1.1 | U | | | | | | | P |
| Zinc | | | -22.0 | | | | | | | | P |
| Cyanide | | | | | | | | | | | AS |



000513
RESUBMITTED

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSW50MS1010

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: ( soil / water ) Water SAS No.: SDG No.: 204061007

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20406100701 Original Lab Sample ID: 20406100703

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* |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 75 | 125 | 2110 | | 100 | B | 2000 | 100 | | P |
| Antimony | 75 | 125 | 108 | | 3.9 | U | 100 | 108 | | P |
| Arsenic | 75 | 125 | 53.6 | | 5.4 | U | 40.0 | 134 | N | P |
| Barium | 75 | 125 | 2120 | | 53.0 | B | 2000 | 103 | | P |
| Beryllium | 75 | 125 | 51.8 | | 0.2 | U | 50.0 | 104 | | P |
| Cadmium | 75 | 125 | 52.9 | | 0.9 | B | 50.0 | 104 | | P |
| Chromium | 75 | 125 | 206 | | 1.5 | U | 200 | 103 | | P |
| Cobalt | 75 | 125 | 513 | | 0.6 | U | 500 | 103 | | P |
| Copper | 75 | 125 | 260 | | 1.2 | U | 250 | 104 | | P |
| Iron | 75 | 125 | 1130 | | 102 | | 1000 | 103 | | P |
| Lead | 75 | 125 | 19.4 | | 2.4 | U | 20.0 | 97 | | P |
| Manganese | 75 | 125 | 533 | | 8.1 | B | 500 | 105 | | P |
| Mercury | 75 | 125 | 5.7 | | 0.1 | U | 5.0 | 113 | | AV |
| Nickel | 75 | 125 | 526 | | 1.1 | U | 500 | 105 | | P |
| Selenium | 75 | 125 | 13.6 | | 4.4 | U | 10.0 | 136 | N | P |
| Silver | 75 | 125 | 51.2 | | 0.9 | U | 50.0 | 102 | | P |
| Thallium | 75 | 125 | 68.4 | | 6.3 | U | 50.0 | 137 | N | P |
| Vanadium | 75 | 125 | 512 | | 1.1 | U | 500 | 102 | | P |
| Zinc | 75 | 125 | 498 | | 0.7 | U | 500 | 100 | | P |
| Cyanide | 75 | 125 | 81.9 | | 0.5 | U | 100 | 82 | | AS |

Comments:

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSW50MS1010 (DISS)

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: ( soil / water ) Water SAS No.: SDG No.: 204061007

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20406100710 Original Lab Sample ID: 20406100712

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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 75 | 125 | 1980 | | 74.3 | B | 2000 | 95 | | P |
| Antimony | 75 | 125 | 109 | | 4.7 | B | 100 | 104 | | P |
| Arsenic | 75 | 125 | 46.1 | | 5.4 | U | 40.0 | 115 | | P |
| Barium | 75 | 125 | 2060 | | 50.9 | B | 2000 | 100 | | P |
| Beryllium | 75 | 125 | 50.2 | | 0.3 | B | 50.0 | 100 | | P |
| Cadmium | 75 | 125 | 52.0 | | 1.2 | B | 50.0 | 102 | | P |
| Chromium | 75 | 125 | 198 | | 1.5 | U | 200 | 99 | | P |
| Cobalt | 75 | 125 | 498 | | 0.6 | B | 500 | 99 | | P |
| Copper | 75 | 125 | 252 | | 1.4 | B | 250 | 100 | | P |
| Iron | 75 | 125 | 1040 | | 36.5 | B | 1000 | 100 | | P |
| Lead | 75 | 125 | 18.8 | | 2.4 | U | 20.0 | 94 | | P |
| Manganese | 75 | 125 | 514 | | 5.0 | B | 500 | 102 | | P |
| Mercury | 75 | 125 | 5.6 | | 0.1 | U | 5.0 | 113 | | AV |
| Nickel | 75 | 125 | 509 | | 2.8 | B | 500 | 101 | | P |
| Selenium | 75 | 125 | 9.2 | | 4.4 | U | 10.0 | 92 | | P |
| Silver | 75 | 125 | 49.1 | | 0.9 | U | 50.0 | 98 | | P |
| Thallium | 75 | 125 | 58.2 | | 6.3 | U | 50.0 | 116 | | P |
| Vanadium | 75 | 125 | 497 | | 1.1 | U | 500 | 99 | | P |
| Zinc | 75 | 125 | 479 | | 0.7 | U | 500 | 96 | | P |

Comments:

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSW501010PDS

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: ( soil / water ) Water SAS No.: SDG No.: 204061007

% Solids for Sample: Level: ( low / med )

Original Lab Sample ID: 20406100701 Lab Sample ID:: 174609

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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | | 127 | | 3.9 | U | 120 | 105 | | P |
| Arsenic | | | 16.9 | | 5.4 | U | 20.0 | 84 | | P |
| Beryllium | | | 10.5 | | 0.2 | U | 10.0 | 105 | | P |
| Cadmium | | | 11.1 | | 0.9 | B | 10.0 | 102 | | P |
| Chromium | | | 17.6 | | 1.5 | U | 20.0 | 88 | | P |
| Cobalt | | | 102 | | 0.6 | U | 100 | 102 | | P |
| Copper | | | 51.4 | | 1.2 | U | 50.0 | 103 | | P |
| Lead | | | 5.7 | | 2.4 | U | 6.0 | 94 | | P |
| Manganese | | | 39.8 | | 8.1 | B | 30.0 | 106 | | P |
| Nickel | | | 84.9 | | 1.1 | U | 80.0 | 106 | | P |
| Selenium | | | 4.4 | U | 4.4 | U | 10.0 | 0 | | P |
| Silver | | | 19.4 | | 0.9 | U | 20.0 | 97 | | P |
| Thallium | | | 18.7 | | 6.3 | U | 20.0 | 93 | | P |
| Vanadium | | | 100 | | 1.1 | U | 100 | 100 | | P |
| Zinc | | | 12.3 | B | 0.7 | U | 40.0 | 31 | | P |

Comments:



000520
RESUBMITTED

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSW501010 (DISS)PDS

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: ( soil / water ) Water SAS No.: SDG No.: 204061007

% Solids for Sample: Level: ( low / med )

Original Lab Sample ID: 20406100710 Lab Sample ID:: 174611

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* |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | | 124 | | 4.7 | B | 120 | 100 | | P |
| Arsenic | | | 18.5 | | 5.4 | U | 20.0 | 92 | | P |
| Beryllium | | | 10.7 | | 0.3 | B | 10.0 | 103 | | P |
| Cadmium | | | 11.7 | | 1.2 | B | 10.0 | 105 | | P |
| Chromium | | | 18.3 | | 1.5 | U | 20.0 | 91 | | P |
| Cobalt | | | 106 | | 0.6 | B | 100 | 105 | | P |
| Copper | | | 53.5 | | 1.4 | B | 50.0 | 104 | | P |
| Lead | | | 4.1 | | 2.4 | U | 6.0 | 69 | | P |
| Manganese | | | 37.0 | | 5.0 | B | 30.0 | 107 | | P |
| Nickel | | | 86.3 | | 2.8 | B | 80.0 | 104 | | P |
| Selenium | | | 7.3 | | 4.4 | U | 10.0 | 73 | | P |
| Silver | | | 19.7 | | 0.9 | U | 20.0 | 99 | | P |
| Thallium | | | 33.5 | | 6.3 | U | 20.0 | 168 | | P |
| Vanadium | | | 102 | | 1.1 | U | 100 | 102 | | P |
| Zinc | | | 13.1 | B | 0.7 | U | 40.0 | 33 | | P |

Comments:



RESUBMITTED

U.S. EPA - CLP
6
DUPLICATES

EPA SAMPLE NO
SKSW50DUP1010

Lab Name: GCAL

Lab Code: LA024 SDG No.: 204061007

Matrix: ( soil / water ) Water

% Solids for Sample: Lab Sample ID 20406100705

% Solids for Duplicate: Original Lab Sample 20406100701

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

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|---|---|---|---|---|---|---|---|---|
| Aluminum | - | 100 | B | 103 | B | 3 | | P |
| Antimony | - | 3.9 | U | 3.9 | U | 0 | | P |
| Arsenic | - | 5.4 | U | 5.4 | U | 0 | | P |
| Barium | - | 53.0 | B | 51.4 | B | 3 | | P |
| Beryllium | - | 0.2 | U | 0.3 | B | 200 | | P |
| Cadmium | - | 0.9 | B | 1.1 | B | 20 | | P |
| Calcium | 0 - 20 | 93500 | | 90500 | | 3 | | P |
| Chromium | - | 1.5 | U | 1.5 | U | 0 | | P |
| Cobalt | - | 0.6 | U | 0.6 | U | 0 | | P |
| Copper | - | 1.2 | U | 5.4 | B | 200 | | P |
| Iron | 0 - 100 | 102 | | 96.4 | B | 5.1825 | | P |
| Lead | - | 2.4 | U | 2.4 | U | 0 | | P |
| Magnesium | 0 - 20 | 30200 | | 25400 | | 17 | | P |
| Manganese | - | 8.1 | B | 8.3 | B | 2 | | P |
| Mercury | - | 0.1 | U | 0.1 | U | 0 | | AV |
| Nickel | - | 1.1 | U | 2.7 | B | 200 | | P |
| Potassium | - | 3230 | B | 3460 | B | 7 | | P |
| Selenium | - | 4.4 | U | 4.4 | U | 0 | | P |
| Silver | - | 0.9 | U | 0.9 | U | 0 | | P |
| Sodium | 0 - 20 | 40300 | | 41900 | | 4 | | P |
| Thallium | - | 6.3 | U | 6.8 | B | 200 | | P |
| Vanadium | - | 1.1 | U | 1.1 | U | 0 | | P |
| Zinc | - | 0.7 | U | 0.7 | U | 0 | | P |
| Cyanide | - | 0.5 | U | 0.5 | U | 0 | | AS |

U.S. EPA - CLP
6
DUPLICATES

EPA SAMPLE NO
SKSW50DUP1010 (DISS)

Lab Name: GCAL

Lab Code: LA024 SDG No.: 204061007

Matrix: ( soil / water ) Water

% Solids for Sample: Lab Sample ID 20406100713

% Solids for Duplicate: Original Lab Sample 20406100710

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

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|---|---|---|---|---|---|---|---|---|
| Aluminum | - | 74.3 | B | 82.5 | B | 10 | | P |
| Antimony | - | 4.7 | B | 5.1 | B | 8 | | P |
| Arsenic | - | 5.4 | U | 5.4 | U | 0 | | P |
| Barium | - | 50.9 | B | 51.3 | B | .8 | | P |
| Beryllium | - | 0.3 | B | 0.3 | B | 0 | | P |
| Cadmium | - | 1.2 | B | 1.3 | B | 8 | | P |
| Calcium | 0 - 20 | 92300 | | 93700 | | 2 | | P |
| Chromium | - | 1.5 | U | 1.5 | U | 0 | | P |
| Cobalt | - | 0.6 | B | 0.6 | U | 200 | | P |
| Copper | - | 1.4 | B | 1.4 | B | 0 | | P |
| Iron | - | 36.5 | B | 38.2 | B | 5 | | P |
| Lead | - | 2.4 | U | 2.4 | U | 0 | | P |
| Magnesium | 0 - 20 | 28600 | | 28900 | | 1 | | P |
| Manganese | - | 5.0 | B | 5.0 | B | 0 | | P |
| Mercury | - | 0.1 | U | 0.1 | U | 0 | | AV |
| Nickel | - | 2.8 | B | 1.9 | B | 38 | | P |
| Potassium | - | 3160 | B | 3180 | B | .6 | | P |
| Selenium | - | 4.4 | U | 4.4 | U | 0 | | P |
| Silver | - | 0.9 | U | 0.9 | U | 0 | | P |
| Sodium | 0 - 20 | 38700 | | 39700 | | 3 | | P |
| Thallium | - | 6.3 | U | 6.3 | U | 0 | | P |
| Vanadium | - | 1.1 | U | 1.1 | U | 0 | | P |
| Zinc | - | 0.7 | U | 0.7 | U | 0 | | P |



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U.S. EPA - CLP
7
LABORATORY CONTROL SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Solid LCS Source: Lab Sample ID: 172859

Aqueous LCS Source: 310006 HIGH PURITY~323003 HIGH

| | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|---|---|---|---|---|---|---|---|
| Analyte | True | Found | % R | True | Found | C | % R |
| Aluminum | 2000 | 1920 | 96 | | | | |
| Antimony | 500 | 478 | 96 | | | | |
| Arsenic | 2000 | 1920 | 96 | | | | |
| Barium | 2000 | 1920 | 96 | | | | |
| Beryllium | 50.0 | 47.5 | 95 | | | | |
| Cadmium | 50.0 | 47.4 | 95 | | | | |
| Calcium | 10000 | 9530 | 95 | | | | |
| Chromium | 200 | 188 | 94 | | | | |
| Cobalt | 500 | 462 | 92 | | | | |
| Copper | 250 | 239 | 96 | | | | |
| Iron | 1000 | 967 | 97 | | | | |
| Lead | 500 | 479 | 96 | | | | |
| Magnesium | 10000 | 10300 | 103 | | | | |
| Manganese | 500 | 486 | 97 | | | | |
| Nickel | 500 | 477 | 95 | | | | |
| Potassium | 10000 | 9550 | 95 | | | | |
| Selenium | 2000 | 1920 | 96 | | | | |
| Silver | 50.0 | 48.9 | 98 | | | | |
| Sodium | 10000 | 9670 | 97 | | | | |
| Thallium | 2000 | 1850 | 93 | | | | |
| Vanadium | 500 | 480 | 96 | | | | |
| Zinc | 500 | 456 | 91 | | | | |



000525
RESUBMITTED

U.S. EPA - CLP
7
LABORATORY CONTROL SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Solid LCS Source: Lab Sample ID: 172863

Aqueous LCS Source: 310006 HIGH PURITY~323003 HIGH

| Analyte | Aqueous (ug/L) True | Found | % R | Solid (mg/kg) True | Found | C | % R |
|---|---|---|---|---|---|---|---|
| Aluminum | 2000 | 2010 | 101 | | | | |
| Antimony | 500 | 495 | 99 | | | | |
| Arsenic | 2000 | 2030 | 101 | | | | |
| Barium | 2000 | 1970 | 98 | | | | |
| Beryllium | 50.0 | 49.5 | 99 | | | | |
| Cadmium | 50.0 | 51.1 | 102 | | | | |
| Calcium | 10000 | 9700 | 97 | | | | |
| Chromium | 200 | 192 | 96 | | | | |
| Cobalt | 500 | 482 | 96 | | | | |
| Copper | 250 | 242 | 97 | | | | |
| Iron | 1000 | 1000 | 100 | | | | |
| Lead | 500 | 500 | 100 | | | | |
| Magnesium | 10000 | 10400 | 104 | | | | |
| Manganese | 500 | 499 | 100 | | | | |
| Nickel | 500 | 501 | 100 | | | | |
| Potassium | 10000 | 10100 | 101 | | | | |
| Selenium | 2000 | 2030 | 101 | | | | |
| Silver | 50.0 | 48.8 | 98 | | | | |
| Sodium | 10000 | 9970 | 100 | | | | |
| Thallium | 2000 | 2070 | 103 | | | | |
| Vanadium | 500 | 490 | 98 | | | | |
| Zinc | 500 | 474 | 95 | | | | |


RESUBMITTEI

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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SKSW501010SD

Lab Name: GCAL

Lab Code: LA024 Case No. SDG No.: 204061007

Matrix: ( soil / water ) Water Lab Sample ID 174608

Original Lab Sample ID 20406100701

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Aluminum | 100 | B | 277 | U | 177.0 | | P |
| Antimony | 3.9 | U | 19.5 | U | | | P |
| Arsenic | 5.4 | U | 27.0 | U | | | P |
| Barium | 53.0 | B | 52.1 | B | 1.7 | | P |
| Beryllium | 0.2 | U | 1.0 | U | | | P |
| Cadmium | 0.9 | B | 1.5 | U | 66.7 | | P |
| Calcium | 93500 | | 95600 | | 2.2 | | P |
| Chromium | 1.5 | U | 7.5 | U | | | P |
| Cobalt | 0.6 | U | 3.0 | U | | | P |
| Copper | 1.2 | U | 6.0 | U | | | P |
| Iron | 102 | | 92.3 | B | 9.5 | | P |
| Lead | 2.4 | U | 12.0 | U | | | P |
| Magnesium | 30200 | | 28700 | | 5.0 | | P |
| Manganese | 8.1 | B | 6.0 | B | 25.9 | ~~E~~ | P |
| Nickel | 1.1 | U | 5.5 | U | | | P |
| Potassium | 3230 | B | 2850 | B | 11.8 | ~~E~~ | P |
| Selenium | 4.4 | U | 31.8 | | 622.7 | | P |
| Silver | 0.9 | U | 4.5 | U | | | P |
| Sodium | 40300 | | 40800 | | 1.2 | | P |
| Thallium | 6.3 | U | 31.5 | U | | | P |
| Vanadium | 1.1 | U | 5.5 | U | | | P |
| Zinc | 0.7 | U | 3.5 | U | | | P |

8/30/05 MSC

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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SKSW501010 (DISS)SD

Lab Name: GCAL

Lab Code: LA024 Case No. SDG No.: 204061007

Matrix ( soil / water ) Water Lab Sample ID 174610

Original Lab Sample ID 20406100710

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Aluminum | 74.3 | B | 295 | B | 297.0 | | P |
| Antimony | 4.7 | B | 19.5 | U | 314.9 | | P |
| Arsenic | 5.4 | U | 27.0 | U | | | P |
| Barium | 50.9 | B | 52.1 | B | 2.4 | | P |
| Beryllium | 0.3 | B | 1.5 | B | | | P |
| Cadmium | 1.2 | B | 4.1 | B | 241.7 | | P |
| Calcium | 92300 | | 98400 | | 6.6 | | P |
| Chromium | 1.5 | U | 7.5 | U | | | P |
| Cobalt | 0.6 | B | 3.6 | B | 500.0 | | P |
| Copper | 1.4 | B | 6.0 | U | 328.6 | | P |
| Iron | 36.5 | B | 122 | B | 234.2 | | P |
| Lead | 2.4 | U | 12.0 | U | | | P |
| Magnesium | 28600 | | 30800 | | 7.7 | | P |
| Manganese | 5.0 | B | 6.6 | B | 32.0 | | P |
| Nickel | 2.8 | B | 7.9 | B | 182.1 | | P |
| Potassium | 3160 | B | 2970 | B | 6.0 | | P |
| Selenium | 4.4 | U | 22.0 | U | | | P |
| Silver | 0.9 | U | 4.5 | U | | | P |
| Sodium | 38700 | | 39400 | | 1.8 | | P |
| Thallium | 6.3 | U | 31.5 | U | | | P |
| Vanadium | 1.1 | U | 5.5 | U | | | P |
| Zinc | 0.7 | U | 3.5 | U | | | P |

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INSTRUMENT DETECTION LIMITS

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204061007

Instrument ID: ICP5 Study Date: 05/06/04

| Analyte | Wavelength (nm) | Background | CRDL (ug/L) | IDL (ug/L) | M |
|---|---|---|---|---|---|
| Aluminum | 308.210 | | 200 | 55.3 | P |
| Antimony | 206.830 | | 60 | 3.9 | P |
| Arsenic | 193.700 | | 10 | 5.4 | P |
| Barium | 233.520 | | 200 | .3 | P |
| Beryllium | 313.100 | | 5 | .2 | P |
| Cadmium | 214.430 | | 5 | .3 | P |
| Calcium | 315.880 | | 5000 | 7.3 | P |
| Chromium | 267.710 | | 10 | 1.5 | P |
| Cobalt | 228.610 | | 50 | .6 | P |
| Copper | 324.750 | | 25 | 1.2 | P |
| Iron | 259.940 | | 100 | 9.1 | P |
| Lead | 220.350 | | 3 | 2.4 | P |
| Magnesium | 279.080 | | 5000 | 66.9 | P |
| Manganese | 257.610 | | 15 | .6 | P |
| Nickel | 231.600 | | 40 | 1.1 | P |
| Potassium | 766.480 | | 5000 | 97.8 | P |
| Selenium | 196.030 | | 5 | 4.4 | P |
| Silver | 328.060 | | 10 | .9 | P |
| Sodium | 589.580 | | 5000 | 339.7 | P |
| Thallium | 190.800 | | 10 | 6.3 | P |
| Vanadium | 290.880 | | 50 | 1.1 | P |
| Zinc | 213.860 | | 20 | .7 | P |

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ANALYSIS RUN LOG

000541 RESUBMITTED

Lab Name: GCAL  Contract:

Lab Code: LA024  Case No.:  SAS No.:  SDG No.: 204061007

Instrument ID Number: ICP5  Method Type: P

Start Date: 06/21/04  End Date: 06/21/04

| | | | | Analyte Symbols | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EPA Sample No. | D/F | Time | % R | Al | Sb | As | Ba | Be | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Hg | Ni | K | Se | Ag | Na | Tl | V | Zn | Cn |
| ICV | 1 | 0859 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| ICB | 1 | 0906 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| 1 CRDL | 1 | 0913 | | | X | X | | X | X | | X | X | X | | X | | X | | X | | X | X | | X | X | X | |
| ICSA | 1 | 0920 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| ICSAB | 1 | 0926 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCV | 1 | 0932 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| 1 CCB | 1 | 0938 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| MB172858 | 1 | 0945 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSW501010 | 1 | 0952 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSW50DUP1010 | 1 | 0959 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSW501010SD | 5 | 1006 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSWEB1010 | 1 | 1013 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSW50FD1010 | 1 | 1020 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSW511010 | 1 | 1027 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSW521010 | 1 | 1034 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| LCS172859 | 1 | 1041 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSW50MS1010 | 1 | 1047 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCV | 1 | 1053 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| 2 CCB | 1 | 1059 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSW501010PDS | 1 | 1106 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| MB172862 | 1 | 1120 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSW501010 (DISS) | 1 | 1127 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSW50DUP1010 (DISS) | 1 | 1133 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSW501010 (DISS)SD | 5 | 1140 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSWEB1010 (DISS) | 1 | 1147 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| 2 CRDL | 1 | 1154 | | | X | X | | X | X | | X | X | X | | X | | X | | X | | X | X | | X | X | X | |
| ICSA | 1 | 1201 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |

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ANALYSIS RUN LOG

000542 RESUBMITTED

Lab Name: GCAL  Contract:

Lab Code: LA024  Case No.:  SAS No.:  SDG No.: 204061007

Instrument ID Number: ICP5  Method Type: P

Start Date: 06/21/04  End Date: 06/21/04

| | | | | | Analyte Symbols | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EPA Sample No. | D/F | Time | % R | Al | Sb | As | Ba | Be | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Hg | Ni | K | Se | Ag | Na | Tl | V | Zn | Cn |
| | ICSAB | 1 | 1207 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | CCV | 1 | 1220 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| 3 | CCB | 1 | 1234 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | SKSW50FD1010 (DISS) | 1 | 1241 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | SKSW511010 (DISS) | 1 | 1248 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | SKSW521010 (DISS) | 1 | 1255 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | LCS172863 | 1 | 1302 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | SKSW50MS1010 (DISS) | 1 | 1308 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | SKSW501010 (DISS)PDS | 1 | 1314 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1328 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1335 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1341 | | | X | X | X | X | X | | X | | X | X | X | | | | X | | X | X | | X | | X | |
| | CCV | 1 | 1347 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| 4 | CCB | 1 | 1353 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | ZZZZZZZZZZZZZZZZZZZZZZ | 5 | 1408 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1414 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1420 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1426 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1432 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1438 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1444 | | | X | X | X | X | X | | X | | X | X | X | | | | X | | X | X | | X | | X | |
| 3 | CRDL | 1 | 1457 | | | X | X | | X | X | | X | X | X | | X | | X | | X | | X | X | | X | X | X | |
| | ICSA | 1 | 1504 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | ICSAB | 1 | 1510 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | CCV | 1 | 1516 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| 5 | CCB | 1 | 1618 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1626 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |

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ANALYSIS RUN LOG

000542 RESUBMITTED

Lab Name: GCAL  Contract:

Lab Code: LA024  Case No.:  SAS No.:  SDG No.: 204061007

Instrument ID Number: ICP5  Method Type: P

Start Date: 06/21/04  End Date: 06/21/04

| | | | | Analyte Symbols | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EPA Sample No. | D/F | Time | % R | Al | Sb | As | Ba | Be | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Hg | Ni | K | Se | Ag | Na | Tl | V | Zn | Cn |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1639 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1646 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1653 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 5 | 1659 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1706 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1712 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1719 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1725 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1 | 1732 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCB | 1 | 1738 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1745 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1751 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1757 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| 4 CRDL | 1 | 1809 | | | X | X | | X | X | | X | X | X | | X | | X | | X | | X | X | | X | X | X | |
| ICSA | 1 | 1816 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| ICSAB | 1 | 1822 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCV | 1 | 1828 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCB | 1 | 1834 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |

# DATA VALIDATION REPORT

# FOR

# SKINNER LANDFILL SITE

**EARTH TECH: PROJECT NUMBER 54280**

**LABORATORY REPORT NUMBER 204052617**

**PROJECT MANAGER: Ron Rolker**

**Date: August 16, 2004**

**Revised Report Dated: August 29, 2005**

**Data Validator: Mark Kromis**

# APPENDIX C
# LIST OF ACRONYMS

| | |
|---|---|
| BFB | Bromofluorobenzene |
| CC | Continuing Calibration |
| CCV | Continuing Calibration Verification |
| CCB | Continuing Calibration Blanks |
| CLP | Contract Laboratory Program |
| CRDL | Contract Required Detection Limit |
| DFTPP | Decafluorotriphenylphosphine |
| GC/MS | Gas Chromatograph/Mass Spectrometer |
| IC | Initial Calibration |
| ICB | Initial Calibration Blank |
| IDL | Instrument Detection Limit |
| ICP | Inductively Coupled Plasma |
| ICS | Interference Check Sample |
| ICV | Initial Calibration Verification |
| ILM | Inorganic Analysis Multi-Media Multi-Concentration |
| INDAM | Individual A Mixture |
| INDBM | Individual B Mixture |
| mg/L | milligrams per liter |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| OLC | Organic Analysis Low Concentration |
| OLM | Organic Analysis Multi-Media Multi-Concentration |
| %D | Percent Difference |
| % RSD | Percent Relative Standard Deviation |
| PB | Preparation Blanks |
| QC | Quality Control |
| RF | Response Factor |
| RPD | Relative Percent Difference |
| RRF | Relative Response Factor |
| SDG | Sample Delivery Group |
| SOW | Statement of Work |
| µg/L | micrograms per liter |
| US EPA | United States Environmental Protection Agency |
| VOC | Volatile Organic Compounds |
| VTSR | Validated Time of Sample Receipt |

## CASE NARRATIVE

**The Inorganic portion of this report was revised do to the submission of additional data for the metals that were not reported by GCAL in the original data package. The following metals were included in the resubmission: Aluminum, Calcium, Cobalt, Magnesium, Manganese, Potassium, Sodium, and Vanadium.**

# DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204052617 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in May 2004, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Group (SDG) 204052617.

| GCAL # | Sample Description |
|---|---|
| 20405261701 | SKGW591010 |
| 20405261702 | SKGW601010 |
| 20405261703 | SKGW62A1010 |
| 20405261704 | SKGW641010 |
| 20405261705 | SKGWEB1010 |
| 20405261706 | SKGW591010 (DISS) |
| 20405261707 | SKGW601010 (DISS) |
| 20405261708 | SKGW62A1010 (DISS) |
| 20405261709 | SKGW641010 (DISS) |
| 20405261710 | SKGWEB1010 (DISS) |
| 20405261715 | SKSWD031010 |
| 20405261716 | SKSWD03MS1010 |
| 20405261718 | SKSWD03DUP1010 |
| 20405261719 | SKSWD03FD1010 |
| 20405261720 | SKSWDEB1010 |
| 20405261722 | SKSWD031010 (DISS) |
| 20405261723 | SKSWD03MS1010 (DISS) |
| 20405261724 | SKSWD031DUP1010 (DISS) |
| 20405261725 | SKSWD03FD1010 (DISS) |
| 20405261726 | SKSWDEB1010 (DISS) |

## INTRODUCTION

Analyses of metals were performed according to Contract Laboratory Program (CLP)-Inorganic Analysis Multi-media Multi-concentration ILM04.1 Statement of Work (SOW). Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.
The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user.

Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. *Calibration*
   A. Initial Calibration (IC)
   B. Continuing Calibration (CC)
3. Blanks
4. Inductively Coupled Plasma (ICP) Interference Check Sample
5. Laboratory Control Sample (LCS)
6. Duplicate Analysis
7. Spike Sample Analysis
8. ICP Serial Dilution
9. System Performance
10. Documentation

11. Overall Assessment

## 1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples undergoing CLP protocol. Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. CALIBRATION

### A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

### B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

## 3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Preparation Blanks (PB) were analyzed at the appropriate frequencies. No constituents were detected in the ICB, CCB, and PB blanks above the corresponding Contract Required Detection Limit (CRDL).

## 4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

## 5. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

## 6. DUPLICATE ANALYSIS

The laboratory used samples SKSWD03101 and SKSWD03101 (dissolved) for the duplicate sample. The Relative Percent Difference (RPD) between the sample and duplicate results for the total and dissolved fractions were within the acceptance criteria (<20%) for all target compounds.

## 7. SPIKE SAMPLE ANALYSIS

The laboratory used samples SKSWD03101 and SKSWD03101 (dissolved) for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) with the exception of Arsenic (126%) and Selenium (73%) in the total fraction and Selenium (0%) in the dissolved fraction. As per the National Functional Guidelines: if the percent recovery is greater than 125% then qualify detected results whit "J". If the percent recovery is greater than 30% and less than 74% qualify detected results for that analyte with "J" and non-detected results with "UJ". If the percent recovery is less than 30% qualify detected results for that analyte with "J" and non-detected results with "R".

## 8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 50 times above the IDL, its serial dilution analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interference's exist due to matrix effects. The serial dilution percent differences were within the acceptance criteria for all target analytes

## 9. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

## 10. DOCUMENTATION

The documentation appeared accurate and in order.

## 11. OVERALL ASSESSMENT

The percent recoveries for Lead in the Contract Required Detection Limit (CRDL) standards were 128.1%, 75.2%, and 111.2%. The percent recoveries for Thallium in the Contract Required Detection Limit (CRDL) standards were 89.9%, 92.9%, and 65.6%. The detected Lead and Thallium results greater than the IDL but less than two times the CRDL were qualified with as estimated with "J" and the non-detected results were qualified with "UJ". The results are acceptable with the validator-added qualifiers.

## DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204052617 SEMIVOLATILE ORGANICS

Validation of the Gas Chromatograph/Mass Spectrometer (GC/MS) semi-volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in May 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. The results were reported by GCAL under SDG 204052617.

| GCAL # | Sample Description |
|---|---|
| 20405261701 | SKGW591010 |
| 20405261702 | SKGW601010 |
| 20405261703 | SKGW62A1010 |
| 20405261704 | SKGW641010 |
| 20405261705 | SKGWEB1010 |
| 20405261715 | SKSWD031010 |
| 20405261716 | SKSWD03MS1010 |
| 20405261717 | SKSWD03MSD1010 |
| 20405261719 | SKSWD03FD1010 |
| 20405261720 | SKSWDEB1010 |

## INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various data qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U — The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J — The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the semivolatile data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Internal Standards Performance
8. Compound Identification
9. Constituent Quantitation and Reported Detection Limits
10. System Performance
11. Documentation
12. Overall Assessment

## 1. HOLDING TIMES

All samples were initially extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. GC/MS TUNING

The samples were analyzed on a single GC/MS system, identified as MSSV3. One decafluorotriphenylphosphine (DFTPP) tune was run representing the shift in which the standards and samples were analyzed. The DFTPP tune is acceptable.

## 3. CALIBRATION

### A. Initial Calibration

One IC dated 6/15/04 was analyzed in support of the semivolatile sample analyses. Documentation of the IC was present in the data package, and the Relative Response Factor (RRF), as well as percent % RSD values were accurately reported for all target compounds. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all semi-volatile compounds. The RRF's and the average RRF were within the acceptance criteria specified in the method for all reported analytes with the exception of 4-Chloroaniline. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Diethylphthalate (34.5%). The lowest point of the calibration curve was dropped for Diethylphthalate and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Diethylphthalate were not detected in the associated samples therefore data qualification was not required. The detected results for Di-n-butylphthalate were mitigated do to the presence of Di-n-butylphthalate in the associated method blank.

As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

### B. Continuing Calibration

One CC dated 6/15/04 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC dated 6/15/04 were within the acceptance criteria with the exception of 4-Chloroaniline. The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 6/15/04 were within the acceptance criteria with the exception the %D for 2,4-Dintorphenol. As per the National Functional Guidelines, if the %D exceeds the acceptance criteria qualify detected results for that analyte with "J" and non-detected results for that analyte with "UJ". The 4-Chloroaniline results were previously qualified under Section 3A titled "Initial calibration".

## 4. BLANKS

Two laboratory semivolatile methods blank and two equipment blanks were analyzed with this SDG. The results are summarized below.

Method Blank (MB169340)

Bis-(2-ethylhexyl) phthalate (2.56 ppb) and Di-n-butylphthalate (0.889) were detected in method blank extracted on 5/27/04.

Method Blank (MB170484)

Bis-(2-ethylhexyl) phthalate and Di-n-butylphthalate was detected at a concentration of 0.794 ppb and 0.839 ppb respectively in method blank extracted on 6/1/04.

Equipment Blank (SKGWEB1010)

Di-n-butylphthalate was detected at a concentration of 0.669 ppb in the equipment blank collected on 5/25/04. The Di-n-butylphthalate result was mitigated by the presence of Di-n-butylphthalate in the associated extraction blank.

Equipment Blank (SKSWDEB1010)

Bis-(2-ethylhexyl) phthalate (0.697 ppb) and Di-n-butylphthalate (3.55 ppb) were detected in the equipment blank collected on 5/27/04. The Bis-(2-ethylhexyl) phthalate and Di-n-butylphthalate result was mitigated by the presence of Di-n-butylphthalate in the associated extraction blank.

## 5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds were recovered within acceptable control limits.

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

Sample SKSWD031010 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of the 4-Nitorphenol and Pentachlorophenol. The %RPD between the MS/MSD are within the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD data alone.

## 7. INTERNAL STANDARDS PERFORMANCE

Internal standard areas and retention times were within acceptable limits for the reported semivolatile sample analyses.

## 8. COMPOUND IDENTIFICATION

All reported semivolatile constituents were correctly identified with supporting chromatograms present in the data package.

## 9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for semivolatile constituents.

## 10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data submitted for review.

## 11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the preparation method off of the CLP Form 1's and the Date Extracted off of the CLP Form 1's and IV's. The data validator manually wrote the preparation method and Date Extracted on the appropriate forms. GCAL also left the "B" qualifier off of the CLP Form 1's for the compound Di-n-butylphthalate therefore the data validator inserted a "B" qualifier in the "Q" column of the CLP Form 1's. The "B" qualifier indicates that the analyte was detected in the associated method blank.

## 12. OVERALL ASSESSMENT

Bis-(2-ethylhexyl) phthalate was detected in the field duplicate collected for sample SKSWD031010 at a concentration of 438 ppb. Bis-(2-ethylhexyl) phthalate was not detected in the original sample. Trace amounts of Bis-(2-ethylhexyl) phthalate (1.10/1.06 ppb) were detected in the aliquots of sample SKSWD031010 that were collected for MS/MSD analysis. The concentration of Bis-(2-ethylhexyl) phthalate in the MS/MSD were slightly greater than the amount detected in the associated method blank (0.794 ppb). The seems to be an anomaly associated with the Bis-(2-ethylhexyl) phthalate detected in the field duplicate collected for SKSWD031010 therefore the data validator suggest that the client use historical knowledge of the site when addressing this analyte. The results are acceptable with the validator-added qualifiers.

## DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204052617 VOLATILE ORGANIC

Validation of the GC/MS volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in May 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204052617.

| GCAL # | Sample Description |
|---|---|
| 20405261701 | SKGW591010 |
| 20405261702 | SKGW601010 |
| 20405261703 | SKGW62A1010 |
| 20405261704 | SKGW641010 |
| 20405261705 | SKGWEB1010 |
| 20405261711 | SKGW62B1010 |
| 20405261712 | SKGW651010 |
| 20405261713 | SKGWTB1010 |
| 20405261714 | SKGWFB1010 |
| 20405261715 | SKSWD031010 |
| 20405261716 | SKSWD03MS1010 |
| 20405261717 | SKSWD03MSD1010 |
| 20405261719 | SKSWD03FD1010 |
| 20405261720 | SKSWDEB1010 |
| 20405261721 | SKSWDTB1010 |

## INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Low Concentration OLC02.0 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit.

However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The volatiles data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Laboratory Control Sample
8. Internal Standards Performance
9. Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. System Performance
12. Documentation
13. Overall Assessment

## 1. HOLDING TIMES

All samples for Volatile Organic Compounds (VOC) analyses were analyzed within the 14-day technical holding time and the 10-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. GC/MS TUNING

The samples were analyzed on one GC/MS system, identified as MSV1. One bromofluorobenzene (BFB) tune was run. The BFB tune is acceptable.

## 3. CALIBRATION

### A. Initial Calibration

One IC dated 5/30/04 was analyzed on instrument MSV1 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards is present in the data package, and RRF's as well as %RSD values were accurately reported. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all volatile compounds. The %RSD's were within the acceptance criteria specified in the method for all target analytes. The RRF's and the average RRF for the IC dated 5/30/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone.

As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

### B. Continuing Calibration

One CC dated 5/30/04 was analyzed on instrument MSV1 in support of the volatile sample analyses reported in the data submissions. The percent difference (%D) between the average RRF's and the CC RF's were within the acceptance criteria for all target analytes. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone. The Acetone results were previously qualified under section 3A above.

## 4. BLANKS

One laboratory volatile method blank, storage blank, two Equipment Blanks, two Trip Blanks, and a Field Blank were analyzed with this SDG. The results are summarized below.

MB170027

Methylene chloride, 1,2-Dichlrorbenzene, 1,4-Dichlrorbenzene, and 1,2,4-Trichlorobenzene were detected at a concentration of 0.20 ppb, 0.36, 0.43, and 0.40 ppb respectively in the method blank analyzed on 5/30/04.

Storage Blank (VHBLK01)

Methylene chloride and 1,2-Dichlrorbenzene were detected at a concentration of 0.13 ppb and 0.30 ppb respectively in the storage blank analyzed on 5/26/04.

Trip Blank (SKGWTB1010)

1,2-Dichlrorbenzene was detected at a concentration of 0.27 ppb in the Trip Blank associated with the samples collected on 5/25/04. Sulfur dioxide was detected as a TIC at a concentration of 326 ppb. The 1,2-Dichlorobenzene detected in Trip Blank SKGWTB1010 was mitigated by the presence of 1,2-Dichlorobenzene detected in the associated method blank and storage blank

Trip Blank (SKSWDTB1010)

Methylene chloride and 1,2-Dichlrorbenzene were detected at a concentration of 0.37 ppb and 0.16 ppb respectively in the Trip Blank associated with the samples collected on 5/27/04. Sulfur dioxide was detected as a TIC at a concentration of 336 ppb.

Equipment Blank (SKGWEB1010)

Methylene chloride, Toluene, and Xylenes (total) were detected at concentrations of 0.37 ppb, 0.40 ppb and 0.19 ppb respectively in the equipment blank collected on 5/25/04. Sulfur dioxide was detected as a TIC at a concentration of 411 ppb.

Equipment Blank (SKSWDEB1010)

Methylene chloride, Toluene, and Xylenes (total) were detected at concentrations of 0.36 ppb, 0.41 ppb and 0.22 ppb respectively in the equipment blank collected on 5/27/04. Sulfur dioxide was detected as a TIC at a concentration of 155 ppb.

Field Blank (SKSWFB1010)

Methylene chloride and Toluene were detected at concentrations of 0.35 ppb and, 0.43 ppb respectively in the equipment blank collected on 5/25/04. Sulfur dioxide was detected as a TIC at a concentration of 285 ppb.

## 5. SYSTEM MONITORING COMPOUND RECOVERY

All reported volatile system monitoring compounds were recovered within acceptable control limits for all samples.

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSWD031010 was submitted for MS/MSD analysis. The MS/MSD percent recoveries and %RPD between the MS/MSD were within the acceptance criteria.

## 7. LABORATORY CONTROL SAMPLE

A LCS was analyzed in conjunction with this SDG. Recoveries were within the control limit for all constituents.

## 8. INTERNAL STANDARDS PERFORMANCE

Internal Standard (IS) areas and retention times were within acceptable limits for the reported volatile sample analyses.

## 9. COMPOUND IDENTIFICATION

All reported VOCs were correctly identified with supporting chromatograms present in the data package.

## 10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for VOCs.

## 11. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

## 12. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following. GCAL inadvertently forget to insert a "B" qualifier for Methylene chloride on the form 1's. The data validator amended the laboratory report to reflect the "B" qualifier in the "Q" field on the Form 1's.

## 13. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

## DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 204052617 PESTICIDES

Validation of the Gas Chromatography (GC) pesticides data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in May 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204052617.

| GCAL # | Sample Description |
|---|---|
| 20405261701 | SKGW591010 |
| 20405261702 | SKGW601010 |
| 20405261703 | SKGW62A1010 |
| 20405261704 | SKGW641010 |
| 20405261705 | SKGWEB1010 |
| 20405261715 | SKSWD031010 |
| 20405261716 | SKSWD03MS1010 |
| 20405261717 | SKSWD03MSD1010 |
| 20405261719 | SKSWD03FD1010 |
| 20405261720 | SKSWDEB1010 |

## INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the pesticide data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Gas Chromatograph/Electronic Capture Detector (GC/ECD) Instrument Performance Check
3. IC
4. Calibration Verification
5. Blanks
6. Surrogate Spikes
7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)
8. Pesticide Cleanup Checks
9. Target Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. Documentation
12. Overall Assessment

## 1. HOLDING TIMES

All samples were extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. GC/ECD INSTRUMENT PERFORMANCE CHECK

The Performance Evaluation Mixture (PEM) was analyzed at the correct frequency. Absolute retention times were within limits.

The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check.

The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM). The percent breakdown for both 4,4-DDT and Endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4-DDT and Endrin in each PEM was less than 30.0% for both GC columns.

## 3. INITIAL CALIBRATION

Individual standard mixtures A and B were analyzed at the correct frequencies and concentrations. The percent resolution criterion was met for Individual standard mixtures A and B.

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20% with the exception of alpha-BHC (23.4%), delta-BHC (27.0), and 4,4'-DDE (20.7%) on column DB-1701. As per the National Functional Guidelines, if the %RSD criteria are not met for the compound(s) being quantified, qualify all associated positive quantitative results with "J" and the sample quantitation limits for non-detected target compounds with "UJ".

The multi-component target compounds were analyzed separately on both columns at a single concentration level. Retention times were determined from a minimum of three peaks.

## 4. CALIBRATION VERIFICATION

Absolute retention times were within appropriate time retention windows

## 5. BLANKS

One laboratory method blank and an Equipment blank were analyzed with this SDG. The results are summarized below.

<u>Method Blank 169623</u>

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 5/28/04.

Equipment Blank SKSWDEB1010

No constituents were detected above the laboratory-reporting limit in the equipment blank collected on 5/27/04.

## 6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria for all samples.

## 7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSWD031010 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of Endrin. The %RPD between the MS/MSD are within the acceptance criteria. As per the National Functional Guidelines, there is no action taken on MS/MSD data alone.

## 8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup.

## 9. TARGET COMPOUND IDENTIFICATION

All reported pesticide data were correctly identified with supporting chromatograms present in the data package.

## 10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for pesticide constituents.

## 11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the preparation method off of the CLP Form 1's and the Date Extracted off of the CLP Form 1's and IV's. The data validator manually wrote the preparation method and Date Extracted on the appropriate forms.

## 12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

## REFERENCES

US EPA, 1994. *National Functional Guidelines for Inorganic Data Review.*

US EPA, 1999. *National Functional Guidelines for Organic Data Review.*

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

*NELAP CERTIFICATE NUMBER 01955*

# ANALYTICAL RESULTS

**PERFORMED BY**

**GULF COAST ANALYTICAL LABORATORIES, INC.**

**Report Date** 06/29/2004

**GCAL Report** 204052617

RESUBMITTED

| | |
|---|---|
| ***Deliver To*** | Earth Tech<br>200 Vine Street<br>Wilder, KY 41076<br>859-442-2300 |
| ***Attn*** | Pat Higgins |

***Customer*** Earth Tech

***Project*** Skinner Landfill

## CASE NARRATIVE

**Client:** Earth Tech **Report:** 204052617

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

The ILM04.1 CLP metals forms I, III, V, VI, VII, IX, X, and XIV were resubmitted 07/28/2005 to report TAL metals.

### SEMI-VOLATILES MASS SPECTROMETRY

In the semi-volatile analysis, sample 20405261719 (SKSWD03FG1010) had a hit for bis(2-ethylhexyl)phthalate. The sample was re-extracted outside of holding time to confirm. This is attributed to laboratory contamination.

In the prep batch 275024, the MS/MSD exhibited sporadic recovery failures. These recoveries were within limits in the LCS. This is attributed to matrix interference.

### METALS

In the ILM04.1 - CLP Metals analysis for prep batch 274822, the MS recovery was outside the control limits for Arsenic and Selenium. The LCS recoveries were within control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

In the ILM04.1 - CLP Metals analysis for prep batch 274823, the MS recovery was outside the control limits for Selenium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference.

The Sample/Duplicate RPD for Cyanide, Total for prep batch 274775 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

The Sample/Duplicate RPD for Nickel and Zinc for prep batch 274822 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

The Sample/Duplicate RPD for Cadmium for prep batch 274823 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW591010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261701

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 754 | | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 58.4 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | B | | P | |
| 7440-43-9 | Cadmium | 0.3 | U | | P | |
| 7440-70-2 | Calcium | 234000 | | | P | |
| 7440-47-3 | Chromium | 3.7 | B | | P | |
| 7440-48-4 | Cobalt | 2.5 | B | | P | |
| 7440-50-8 | Copper | 4.1 | B | | P | |
| 7439-89-6 | Iron | 2710 | | | P | |
| 7439-92-1 | Lead | 4.7 | | | P | J |
| 7439-95-4 | Magnesium | 49100 | | | P | |
| 7439-96-5 | Manganese | 357 | | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 6.3 | B | | P | |
| 7440-09-7 | Potassium | 32900 | | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 152000 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 10.6 | B | | P | |
| 57-12-5 | Cyanide | 0.6 | B | | AS | |

8/30/05 MSR

Color Before: LT.YELLOW Clarity Before: CLEAR Texture:

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW601010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261702

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 16300 | | | P | |
| 7440-36-0 | Antimony | 8.2 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 88.1 | B | | P | |
| 7440-41-7 | Beryllium | 1.3 | B | | P | |
| 7440-43-9 | Cadmium | 1.2 | B | | P | |
| 7440-70-2 | Calcium | 234000 | | | P | |
| 7440-47-3 | Chromium | 31.6 | | | P | |
| 7440-48-4 | Cobalt | 19.1 | B | | P | |
| 7440-50-8 | Copper | 26.9 | | | P | |
| 7439-89-6 | Iron | 41800 | | | P | |
| 7439-92-1 | Lead | 26.9 | | | P | |
| 7439-95-4 | Magnesium | 41900 | | | P | |
| 7439-96-5 | Manganese | 785 | | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 37.8 | B | | P | |
| 7440-09-7 | Potassium | 10600 | | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 45000 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-62-2 | Vanadium | 19.8 | B | | P | |
| 7440-66-6 | Zinc | 97.3 | | | P | |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

8/30/05 msc

Color Before: LT.BROWN Clarity Before: CLEAR Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:



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U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW62A1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261703

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4100 | | | P | |
| 7440-36-0 | Antimony | 8.0 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 226 | | | P | |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 0.3 | U | | P | |
| 7440-70-2 | Calcium | 231000 | | | P | |
| 7440-47-3 | Chromium | 10.7 | | | P | |
| 7440-48-4 | Cobalt | 5.4 | B | | P | |
| 7440-50-8 | Copper | 8.8 | B | | P | |
| 7439-89-6 | Iron | 9710 | | | P | |
| 7439-92-1 | Lead | 12.0 | | | P | |
| 7439-95-4 | Magnesium | 57500 | | | P | |
| 7439-96-5 | Manganese | 746 | | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 13.1 | B | | P | |
| 7440-09-7 | Potassium | 12100 | | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 108000 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 34.7 | | | P | |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

8/30/05
MSL

Color Before: DK.BROWN Clarity Before: CLEAR Texture:

Color After: DK.BROWN Clarity After: CLEAR Artifacts:

Comments:



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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW641010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261704

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 3440 | | | P | |
| 7440-36-0 | Antimony | 4.8 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 36.6 | B | | P | |
| 7440-41-7 | Beryllium | 0.5 | B | | P | |
| 7440-43-9 | Cadmium | 0.7 | B | | P | |
| 7440-70-2 | Calcium | 213000 | | | P | |
| 7440-47-3 | Chromium | 2.8 | B | | P | |
| 7440-48-4 | Cobalt | 6.3 | B | | P | |
| 7440-50-8 | Copper | 7.4 | B | | P | |
| 7439-89-6 | Iron | 8940 | | | P | |
| 7439-92-1 | Lead | 6.2 | | | P | |
| 7439-95-4 | Magnesium | 56200 | | | P | |
| 7439-96-5 | Manganese | 2840 | | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 20.3 | B | | P | |
| 7440-09-7 | Potassium | 18400 | | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 58200 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 19.1 | B | | P | |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

8/30/05
MSK

Color Before: LT.YELLOW Clarity Before: CLEAR Texture:

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:



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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWEB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261705

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 55.3 | U | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 0.3 | U | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.3 | U | | P | |
| 7440-70-2 | Calcium | 61.5 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 9.1 | U | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 66.9 | U | | P | |
| 7439-96-5 | Manganese | 0.6 | U | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.1 | U | | P | |
| 7440-09-7 | Potassium | 97.8 | U | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 340 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 7.0 | B | | P | |
| 57-12-5 | Cyanide | 0.9 | B | | AS | |

8/30/05 MK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



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U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW591010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261706

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 55.3 | U | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 23.2 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.3 | U | | P | |
| 7440-70-2 | Calcium | 209000 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 31.0 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 43900 | | | P | |
| 7439-96-5 | Manganese | 0.6 | U | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.2 | B | | P | |
| 7440-09-7 | Potassium | 29200 | | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | R |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 145000 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | |

8/30/05
MSW

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



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U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW601010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261707

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 57.9 | B | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 37.0 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | B | | P | |
| 7440-43-9 | Cadmium | 0.6 | B | | P | |
| 7440-70-2 | Calcium | 163000 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 26.4 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 28800 | | | P | |
| 7439-96-5 | Manganese | 1.4 | B | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.1 | B | | P | |
| 7440-09-7 | Potassium | 6640 | | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | R |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 46000 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | |

8/30/05 MSL

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



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U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW62A1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261708

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 55.3 | U | | P | |
| 7440-36-0 | Antimony | 4.7 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 117 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.3 | U | | P | |
| 7440-70-2 | Calcium | 122000 | | | P | |
| 7440-47-3 | Chromium | 2.8 | B | | P | |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 27.0 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 47700 | | | P | |
| 7439-96-5 | Manganese | 58.2 | | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.2 | B | | P | |
| 7440-09-7 | Potassium | 10900 | | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | R |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 108000 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 3.7 | B | | P | |

8/30/05 MJG

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW641010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261709

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 55.3 | U | | P | |
| 7440-36-0 | Antimony | 6.9 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 29.3 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.3 | U | | P | |
| 7440-70-2 | Calcium | 170000 | | | P | |
| 7440-47-3 | Chromium | 3.5 | B | | P | |
| 7440-48-4 | Cobalt | 1.2 | B | | P | |
| 7440-50-8 | Copper | 2.2 | B | | P | |
| 7439-89-6 | Iron | 35.5 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 55100 | | | P | |
| 7439-96-5 | Manganese | 2270 | | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 10.7 | B | | P | |
| 7440-09-7 | Potassium | 17500 | | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | R |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 61400 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | |

8/3/01
MM

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWEB1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261710

Level: ( low / med ) Date Received: 05/26/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 55.3 | U | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 0.3 | U | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.4 | B | | P | |
| 7440-70-2 | Calcium | 12.6 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 9.1 | U | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 85.7 | B | | P | |
| 7439-96-5 | Manganese | 0.6 | U | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.1 | U | | P | |
| 7440-09-7 | Potassium | 97.8 | U | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | R |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 340 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | |

8/30/05
MK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD031010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261715

Level: ( low / med ) Date Received: 05/28/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 199 | B | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 33.1 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.3 | U | | P | |
| 7440-70-2 | Calcium | 108000 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 258 | | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 28700 | | | P | |
| 7439-96-5 | Manganese | 87.9 | | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.2 | B | | P | |
| 7440-09-7 | Potassium | 4100 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 14100 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 1.3 | B | | P | |
| 57-12-5 | Cyanide | 0.8 | B | | AS | |

8/30/05
mn

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03MS1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261716

Level: ( low / med ) Date Received: 05/28/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 2160 | | | P | |
| 7440-36-0 | Antimony | 110 | | | P | |
| 7440-38-2 | Arsenic | 50.2 | | N | P | J |
| 7440-39-3 | Barium | 2030 | | | P | |
| 7440-41-7 | Beryllium | 50.0 | | | P | |
| 7440-43-9 | Cadmium | 50.1 | | | P | |
| 7440-70-2 | Calcium | 110000 | | | P | |
| 7440-47-3 | Chromium | 200 | | | P | |
| 7440-48-4 | Cobalt | 488 | | | P | |
| 7440-50-8 | Copper | 250 | | | P | |
| 7439-89-6 | Iron | 1260 | | | P | |
| 7439-92-1 | Lead | 21.1 | | | P | |
| 7439-95-4 | Magnesium | 28300 | | | P | |
| 7439-96-5 | Manganese | 591 | | | P | |
| 7439-97-6 | Mercury | 5.3 | | | AV | |
| 7440-02-0 | Nickel | 499 | | | P | |
| 7440-09-7 | Potassium | 4260 | B | | P | |
| 7782-49-2 | Selenium | 7.3 | | N | P | J |
| 7440-22-4 | Silver | 51.4 | | | P | |
| 7440-23-5 | Sodium | 14600 | | | P | |
| 7440-28-0 | Thallium | 47.3 | | | P | |
| 7440-62-2 | Vanadium | 492 | | | P | |
| 7440-66-6 | Zinc | 500 | | | P | |
| 57-12-5 | Cyanide | 86.0 | | | AS | |

3/30/05
MSR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03DUP1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261718

Level: ( low / med ) Date Received: 05/28/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 228 | | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 34.2 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.3 | U | | P | |
| 7440-70-2 | Calcium | 111000 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 264 | | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 29300 | | | P | |
| 7439-96-5 | Manganese | 90.6 | | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.1 | U | | P | |
| 7440-09-7 | Potassium | 4170 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 14500 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.8 | B | | P | |
| 57-12-5 | Cyanide | 0.6 | B | | AS | |

8/30/05
MJL

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261719

Level: ( low / med ) Date Received: 05/28/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 160 | B | | P | |
| 7440-36-0 | Antimony | 6.9 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 34.3 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.3 | B | | P | |
| 7440-70-2 | Calcium | 109000 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 200 | | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 27700 | | | P | |
| 7439-96-5 | Manganese | 88.0 | | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.1 | U | | P | |
| 7440-09-7 | Potassium | 4370 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 14500 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 2.4 | B | | P | |
| 57-12-5 | Cyanide | 1.1 | B | | AS | |

8/30/05 MSK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWDEB1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261720

Level: ( low / med ) Date Received: 05/28/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 57.9 | B | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 0.3 | U | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.3 | B | | P | |
| 7440-70-2 | Calcium | 84.2 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 5.4 | B | | P | |
| 7439-89-6 | Iron | 9.1 | U | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 66.9 | U | | P | |
| 7439-96-5 | Manganese | 0.6 | U | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.1 | U | | P | |
| 7440-09-7 | Potassium | 97.8 | U | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 340 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 16.8 | B | | P | |
| 57-12-5 | Cyanide | 0.9 | B | | AS | |

8/3/05
MC

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD031010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261722

Level: ( low / med ) Date Received: 05/28/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 55.3 | U | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 32.7 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.3 | U | | P | |
| 7440-70-2 | Calcium | 107000 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 22.2 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 27800 | | | P | |
| 7439-96-5 | Manganese | 77.2 | | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.2 | B | | P | |
| 7440-09-7 | Potassium | 4200 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | R |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 14800 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | |

8/30/05
mn

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03MS1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261723

Level: ( low / med ) Date Received: 05/28/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 1920 | | | P |
| 7440-36-0 | Antimony | 103 | | | P |
| 7440-38-2 | Arsenic | 48.3 | | | P |
| 7440-39-3 | Barium | 1990 | | | P |
| 7440-41-7 | Beryllium | 49.1 | | | P |
| 7440-43-9 | Cadmium | 48.7 | | | P |
| 7440-70-2 | Calcium | 105000 | | | P |
| 7440-47-3 | Chromium | 191 | | | P |
| 7440-48-4 | Cobalt | 478 | | | P |
| 7440-50-8 | Copper | 245 | | | P |
| 7439-89-6 | Iron | 991 | | | P |
| 7439-92-1 | Lead | 19.2 | | | P |
| 7439-95-4 | Magnesium | 27500 | | | P |
| 7439-96-5 | Manganese | 565 | | | P |
| 7439-97-6 | Mercury | 5.6 | | | AV |
| 7440-02-0 | Nickel | 490 | | | P |
| 7440-09-7 | Potassium | 4120 | B | | P |
| 7782-49-2 | Selenium | 4.4 | U | N | P R |
| 7440-22-4 | Silver | 50.7 | | | P |
| 7440-23-5 | Sodium | 14400 | | | P |
| 7440-28-0 | Thallium | 46.0 | | | P |
| 7440-62-2 | Vanadium | 477 | | | P |
| 7440-66-6 | Zinc | 489 | | | P |

8/30/05 MN

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03DUP1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261724

Level: ( low / med ) Date Received: 05/28/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 55.3 | U | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 33.6 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.4 | B | | P | |
| 7440-70-2 | Calcium | 108000 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 19.7 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | US |
| 7439-95-4 | Magnesium | 27200 | | | P | |
| 7439-96-5 | Manganese | 76.7 | | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.2 | B | | P | |
| 7440-09-7 | Potassium | 4280 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | R |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 15200 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | US |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | |

8/30/05
MA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD03FD1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261725

Level: ( low / med ) Date Received: 05/28/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 55.3 | U | | P | |
| 7440-36-0 | Antimony | 6.5 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 30.3 | B | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.3 | U | | P | |
| 7440-70-2 | Calcium | 102000 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 26.4 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | WJ |
| 7439-95-4 | Magnesium | 25800 | | | P | |
| 7439-96-5 | Manganese | 71.9 | | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.1 | U | | P | |
| 7440-09-7 | Potassium | 4160 | B | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | R |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 14800 | | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | WJ |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 3.8 | B | | P | |

8/30/05
MSA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWDEB1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID: 20405261726

Level: ( low / med ) Date Received: 05/28/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 55.3 | U | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 0.3 | U | | P | |
| 7440-41-7 | Beryllium | 0.2 | U | | P | |
| 7440-43-9 | Cadmium | 0.4 | B | | P | |
| 7440-70-2 | Calcium | 26.7 | B | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 12.9 | B | | P | |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 103 | B | | P | |
| 7439-96-5 | Manganese | 0.6 | U | | P | |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 1.4 | B | | P | |
| 7440-09-7 | Potassium | 97.8 | U | | P | |
| 7782-49-2 | Selenium | 4.4 | U | N | P | R |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 340 | U | | P | |
| 7440-28-0 | Thallium | 6.3 | U | | P | UJ |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.9 | B | | P | |

8/30/05
MW

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



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3
BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Preparation Blank Matrix: (soil / water) Water

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

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) 1 | C | 2 | C | 3 | C | Prepa-ration Blank | C | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 55.3 | U | 55.3 | U | 55.3 | U | 55.3 | U | 55.300 | U | P |
| Antimony | 3.9 | U | 3.9 | U | 3.9 | U | 3.9 | U | 3.900 | U | P |
| Arsenic | 5.4 | U | 5.4 | U | 5.4 | U | 5.4 | U | 5.400 | U | P |
| Barium | 0.3 | U | 0.3 | U | 0.3 | U | 0.3 | U | 0.300 | U | P |
| Beryllium | 0.2 | U | 0.2 | U | 0.2 | U | 0.2 | U | 0.200 | U | P |
| Cadmium | 0.3 | U | 0.3 | U | 0.3 | U | 0.3 | U | 0.356 | B | P |
| Calcium | 7.3 | U | 7.3 | U | 7.3 | U | 7.3 | U | 7.300 | U | P |
| Chromium | -2.0 | B | -2.4 | B | -2.7 | B | -2.3 | B | -2.570 | B | P |
| Cobalt | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 0.600 | U | P |
| Copper | 1.2 | U | 1.2 | U | -1.3 | B | 1.2 | U | 1.200 | U | P |
| Iron | 9.1 | U | 9.1 | U | 9.1 | U | 9.1 | U | 9.100 | U | P |
| Lead | 2.4 | U | 2.4 | U | 2.4 | U | 2.4 | U | 2.400 | U | P |
| Magnesium | 66.9 | U | 66.9 | U | 66.9 | U | 66.9 | U | 66.900 | U | P |
| Manganese | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 0.600 | U | P |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.100 | U | AV |
| Nickel | 1.1 | U | 1.1 | U | 1.1 | U | 1.1 | U | 1.100 | U | P |
| Potassium | 97.8 | U | 97.8 | U | 97.8 | U | 97.8 | U | 97.800 | U | P |
| Selenium | 4.4 | U | 4.4 | U | 4.4 | U | 4.4 | U | 4.400 | U | P |
| Silver | 0.9 | U | -1.1 | B | 0.9 | U | 0.9 | U | -1.359 | B | P |
| Sodium | 339.7 | U | 339.7 | U | 339.7 | U | 339.7 | U | 340.000 | U | P |
| Thallium | 6.3 | U | 6.3 | U | 6.3 | U | 6.3 | U | 6.300 | U | P |
| Vanadium | 1.1 | U | -1.3 | B | 1.1 | U | -1.4 | B | 1.100 | U | P |
| Zinc | 0.7 | U | 0.7 | U | 0.7 | U | 0.7 | U | 1.492 | B | P |
| Cyanide | 0.0 | B | 0.0 | B | 0.0 | B | 0.0 | B | 1.137 | B | AS |



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3
BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Preparation Blank Matrix: (soil / water) Water

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

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) 4 | C | 5 | C | 6 | C | Prepa-ration Blank | C | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | | 55.3 | U | 55.3 | U | | | 55.300 | U | P |
| Antimony | | | 3.9 | U | 3.9 | U | | | 3.900 | U | P |
| Arsenic | | | 5.4 | U | 5.4 | U | | | 5.400 | U | P |
| Barium | | | 0.3 | U | 0.3 | U | | | 0.300 | U | P |
| Beryllium | | | 0.2 | U | 0.2 | U | | | 0.200 | U | P |
| Cadmium | | | 0.3 | U | 0.3 | U | | | 0.461 | B | P |
| Calcium | | | 7.3 | U | 7.3 | U | | | 7.543 | B | P |
| Chromium | | | -2.9 | B | -2.1 | B | | | -3.069 | B | P |
| Cobalt | | | 0.6 | U | 0.6 | U | | | 0.600 | U | P |
| Copper | | | 1.2 | U | 1.2 | U | | | 1.200 | U | P |
| Iron | | | 9.1 | U | 9.1 | U | | | 9.100 | U | P |
| Lead | | | 2.4 | U | 2.4 | U | | | 2.400 | U | P |
| Magnesium | | | 67.9 | B | 66.9 | U | | | 80.995 | B | P |
| Manganese | | | 0.6 | U | 0.6 | U | | | 0.600 | U | P |
| Mercury | | | 0.1 | U | | | | | 0.100 | U | AV |
| Nickel | | | 1.1 | U | 1.1 | U | | | 1.100 | U | P |
| Potassium | | | 97.8 | U | 97.8 | U | | | 97.800 | U | P |
| Selenium | | | 4.4 | U | 4.4 | U | | | 4.400 | U | P |
| Silver | | | 0.9 | U | 0.9 | U | | | -0.954 | B | P |
| Sodium | | | 339.7 | U | 339.7 | U | | | 340.000 | U | P |
| Thallium | | | 6.3 | U | 6.3 | U | | | 6.300 | U | P |
| Vanadium | | | -1.3 | B | -1.2 | B | | | -1.559 | B | P |
| Zinc | | | 0.7 | U | 0.7 | U | | | 1.301 | B | P |
| Cyanide | | | | | | | | | | | AS |





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5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSWD03MS1010

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: ( soil / water ) Water SAS No.: SDG No.: 204052617

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20405261715 Original Lab Sample ID: 20405261716

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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 75 | 125 | 2160 | | 199 | B | 2000 | 98 | | P |
| Antimony | 75 | 125 | 110 | | 3.9 | U | 100 | 110 | | P |
| Arsenic | 75 | 125 | 50.2 | | 5.4 | U | 40.0 | 126 | N | P |
| Barium | 75 | 125 | 2030 | | 33.1 | B | 2000 | 100 | | P |
| Beryllium | 75 | 125 | 50.0 | | 0.2 | U | 50.0 | 100 | | P |
| Cadmium | 75 | 125 | 50.1 | | 0.3 | U | 50.0 | 100 | | P |
| Chromium | 75 | 125 | 200 | | 1.5 | U | 200 | 100 | | P |
| Cobalt | 75 | 125 | 488 | | 0.6 | U | 500 | 98 | | P |
| Copper | 75 | 125 | 250 | | 1.2 | U | 250 | 100 | | P |
| Iron | 75 | 125 | 1260 | | 258 | | 1000 | 100 | | P |
| Lead | 75 | 125 | 21.1 | | 2.4 | U | 20.0 | 106 | | P |
| Manganese | 75 | 125 | 591 | | 87.9 | | 500 | 101 | | P |
| Mercury | 75 | 125 | 5.3 | | 0.1 | U | 5.0 | 105 | | AV |
| Nickel | 75 | 125 | 499 | | 1.2 | B | 500 | 100 | | P |
| Selenium | 75 | 125 | 7.3 | | 4.4 | U | 10.0 | 73 | N | P |
| Silver | 75 | 125 | 51.4 | | 0.9 | U | 50.0 | 103 | | P |
| Thallium | 75 | 125 | 47.3 | | 6.3 | U | 50.0 | 95 | | P |
| Vanadium | 75 | 125 | 492 | | 1.1 | U | 500 | 98 | | P |
| Zinc | 75 | 125 | 500 | | 1.3 | B | 500 | 100 | | P |
| Cyanide | 75 | 125 | 86.0 | | 0.8 | B | 100 | 85 | | AS |

Comments:

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSWD03MS1010 (DISS)

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: ( soil / water ) Water SAS No.: SDG No.: 204052617

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20405261722 Original Lab Sample ID: 20405261723

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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 75 | 125 | 1920 | | 55.3 | U | 2000 | 96 | | P |
| Antimony | 75 | 125 | 103 | | 3.9 | U | 100 | 103 | | P |
| Arsenic | 75 | 125 | 48.3 | | 5.4 | U | 40.0 | 121 | | P |
| Barium | 75 | 125 | 1990 | | 32.7 | B | 2000 | 98 | | P |
| Beryllium | 75 | 125 | 49.1 | | 0.2 | U | 50.0 | 98 | | P |
| Cadmium | 75 | 125 | 48.7 | | 0.3 | U | 50.0 | 97 | | P |
| Chromium | 75 | 125 | 191 | | 1.5 | U | 200 | 96 | | P |
| Cobalt | 75 | 125 | 478 | | 0.6 | U | 500 | 96 | | P |
| Copper | 75 | 125 | 245 | | 1.2 | U | 250 | 98 | | P |
| Iron | 75 | 125 | 991 | | 22.2 | B | 1000 | 97 | | P |
| Lead | 75 | 125 | 19.2 | | 2.4 | U | 20.0 | 96 | | P |
| Manganese | 75 | 125 | 565 | | 77.2 | | 500 | 98 | | P |
| Mercury | 75 | 125 | 5.6 | | 0.1 | U | 5.0 | 112 | | AV |
| Nickel | 75 | 125 | 490 | | 1.2 | B | 500 | 98 | | P |
| Selenium | 75 | 125 | 4.4 | U | 4.4 | U | 10.0 | 0 | N | P |
| Silver | 75 | 125 | 50.7 | | 0.9 | U | 50.0 | 101 | | P |
| Thallium | 75 | 125 | 46.0 | | 6.3 | U | 50.0 | 92 | | P |
| Vanadium | 75 | 125 | 477 | | 1.1 | U | 500 | 95 | | P |
| Zinc | 75 | 125 | 489 | | 0.7 | U | 500 | 98 | | P |

Comments:



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5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSWD031010PDS

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: ( soil / water ) Water SAS No.: SDG No.: 204052617

% Solids for Sample: Level: ( low / med )

Original Lab Sample ID: 20405261715 Lab Sample ID:: 170855

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* |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | | 131 | | 3.9 | U | 120 | 109 | | P |
| Arsenic | | | 23.2 | | 5.4 | U | 20.0 | 116 | | P |
| Beryllium | | | 10.0 | | 0.2 | U | 10.0 | 100 | | P |
| Cadmium | | | 10.1 | | 0.3 | U | 10.0 | 101 | | P |
| Chromium | | | 21.0 | | 1.5 | U | 20.0 | 105 | | P |
| Cobalt | | | 97.7 | | 0.6 | U | 100 | 98 | | P |
| Copper | | | 49.7 | | 1.2 | U | 50.0 | 99 | | P |
| Lead | | | 7.9 | | 2.4 | U | 6.0 | 132 | | P |
| Manganese | | | 118 | | 87.9 | | 30.0 | 100 | | P |
| Nickel | | | 80.8 | | 1.2 | B | 80.0 | 100 | | P |
| Selenium | | | 4.4 | U | 4.4 | U | 10.0 | 0 | | P |
| Silver | | | 20.0 | | 0.9 | U | 20.0 | 100 | | P |
| Thallium | | | 18.9 | | 6.3 | U | 20.0 | 95 | | P |
| Vanadium | | | 94.2 | | 1.1 | U | 100 | 94 | | P |
| Zinc | | | 41.2 | | 1.3 | B | 40.0 | 100 | | P |

Comments:



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U.S. EPA - CLP
5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSWD031010 (DISS)PDS

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: ( soil / water ) Water SAS No.: SDG No.: 204052617

% Solids for Sample: Level: ( low / med )

Original Lab Sample ID: 20405261722 Lab Sample ID:: 170857

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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | | 125 | | 3.9 | U | 120 | 104 | | P |
| Arsenic | | | 20.6 | | 5.4 | U | 20.0 | 103 | | P |
| Beryllium | | | 9.9 | | 0.2 | U | 10.0 | 99 | | P |
| Cadmium | | | 9.9 | | 0.3 | U | 10.0 | 99 | | P |
| Chromium | | | 18.0 | | 1.5 | U | 20.0 | 90 | | P |
| Cobalt | | | 97.6 | | 0.6 | U | 100 | 98 | | P |
| Copper | | | 49.8 | | 1.2 | U | 50.0 | 100 | | P |
| Lead | | | 7.0 | | 2.4 | U | 6.0 | 117 | | P |
| Manganese | | | 107 | | 77.2 | | 30.0 | 98 | | P |
| Nickel | | | 80.1 | | 1.2 | B | 80.0 | 99 | | P |
| Selenium | | | 4.4 | U | 4.4 | U | 10.0 | 0 | | P |
| Silver | | | 19.9 | | 0.9 | U | 20.0 | 100 | | P |
| Thallium | | | 18.7 | | 6.3 | U | 20.0 | 93 | | P |
| Vanadium | | | 90.7 | | 1.1 | U | 100 | 91 | | P |
| Zinc | | | 39.2 | | 0.7 | U | 40.0 | 98 | | P |

Comments:



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U.S. EPA - CLP
6
DUPLICATES

EPA SAMPLE NO
SKSWD03DUP1010

Lab Name: GCAL

Lab Code: LA024 SDG No.: 204052617

Matrix: ( soil / water ) Water

% Solids for Sample: Lab Sample ID 20405261718

% Solids for Duplicate: Original Lab Sample 20405261715

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

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|---|---|---|---|---|---|---|---|---|
| Aluminum | 0 - 200 | 199 | B | 228 | | 29.100 | | P |
| Antimony | - | 3.9 | U | 3.9 | U | 0 | | P |
| Arsenic | - | 5.4 | U | 5.4 | U | 0 | | P |
| Barium | - | 33.1 | B | 34.2 | B | 3 | | P |
| Beryllium | - | 0.2 | U | 0.2 | U | 0 | | P |
| Cadmium | - | 0.3 | U | 0.3 | U | 0 | | P |
| Calcium | 0 - 20 | 108000 | | 111000 | | 3 | | P |
| Chromium | - | 1.5 | U | 1.5 | U | 0 | | P |
| Cobalt | - | 0.6 | U | 0.6 | U | 0 | | P |
| Copper | - | 1.2 | U | 1.2 | U | 0 | | P |
| Iron | 0 - 100 | 258 | | 264 | | 6.1500 | | P |
| Lead | - | 2.4 | U | 2.4 | U | 0 | | P |
| Magnesium | 0 - 20 | 28700 | | 29300 | | 2 | | P |
| Manganese | 0 - 20 | 87.9 | | 90.6 | | 3 | | P |
| Mercury | - | 0.1 | U | 0.1 | U | 0 | | AV |
| Nickel | - | 1.2 | B | 1.1 | U | 200 | | P |
| Potassium | - | 4100 | B | 4170 | B | 2 | | P |
| Selenium | - | 4.4 | U | 4.4 | U | 0 | | P |
| Silver | - | 0.9 | U | 0.9 | U | 0 | | P |
| Sodium | 0 - 5000 | 14100 | | 14500 | | 365.95 | | P |
| Thallium | - | 6.3 | U | 6.3 | U | 0 | | P |
| Vanadium | - | 1.1 | U | 1.1 | U | 0 | | P |
| Zinc | - | 1.3 | B | 0.8 | B | 48 | | P |
| Cyanide | - | 0.8 | B | 0.6 | B | 29 | | AS |



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U.S. EPA - CLP
6
DUPLICATES

EPA SAMPLE NO
SKSWD03DUP1010 (DISS)

Lab Name: GCAL

Lab Code: LA024 SDG No.: 204052617

Matrix ( soil / water ) Water

% Solids for Sample: Lab Sample ID 20405261724

% Solids for Duplicate: Original Lab Sample 20405261722

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

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|---|---|---|---|---|---|---|---|---|
| Aluminum | - | 55.3 | U | 55.3 | U | 0 | | P |
| Antimony | - | 3.9 | U | 3.9 | U | 0 | | P |
| Arsenic | - | 5.4 | U | 5.4 | U | 0 | | P |
| Barium | - | 32.7 | B | 33.6 | B | 3 | | P |
| Beryllium | - | 0.2 | U | 0.2 | U | 0 | | P |
| Cadmium | - | 0.3 | U | 0.4 | B | 200 | | P |
| Calcium | 0 - 20 | 107000 | | 108000 | | .9 | | P |
| Chromium | - | 1.5 | U | 1.5 | U | 0 | | P |
| Cobalt | - | 0.6 | U | 0.6 | U | 0 | | P |
| Copper | - | 1.2 | U | 1.2 | U | 0 | | P |
| Iron | - | 22.2 | B | 19.7 | B | 12 | | P |
| Lead | - | 2.4 | U | 2.4 | U | 0 | | P |
| Magnesium | 0 - 20 | 27800 | | 27200 | | 2 | | P |
| Manganese | 0 - 20 | 77.2 | | 76.7 | | .6 | | P |
| Mercury | - | 0.1 | U | 0.1 | U | 0 | | AV |
| Nickel | - | 1.2 | B | 1.2 | B | 0 | | P |
| Potassium | - | 4200 | B | 4280 | B | 2 | | P |
| Selenium | - | 4.4 | U | 4.4 | U | 0 | | P |
| Silver | - | 0.9 | U | 0.9 | U | 0 | | P |
| Sodium | 0 - 5000 | 14800 | | 15200 | | 443.49 | | P |
| Thallium | - | 6.3 | U | 6.3 | U | 0 | | P |
| Vanadium | - | 1.1 | U | 1.1 | U | 0 | | P |
| Zinc | - | 0.7 | U | 0.7 | U | 0 | | P |



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7
LABORATORY CONTROL SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Solid LCS Source: Lab Sample ID: 169999

Aqueous LCS Source: 310006 HIGH PURITY~323003 HIGH

| Analyte | Aqueous (ug/L) | | | Solid (mg/kg) | | | |
|---|---|---|---|---|---|---|---|
| | True | Found | % R | True | Found | C | % R |
| Aluminum | 2000 | 2050 | 102 | | | | |
| Antimony | 500 | 517 | 103 | | | | |
| Arsenic | 2000 | 2030 | 101 | | | | |
| Barium | 2000 | 1970 | 99 | | | | |
| Beryllium | 50.0 | 49.8 | 100 | | | | |
| Cadmium | 50.0 | 51.1 | 102 | | | | |
| Calcium | 10000 | 10100 | 101 | | | | |
| Chromium | 200 | 196 | 98 | | | | |
| Cobalt | 500 | 487 | 97 | | | | |
| Copper | 250 | 243 | 97 | | | | |
| Iron | 1000 | 1010 | 101 | | | | |
| Lead | 500 | 508 | 102 | | | | |
| Magnesium | 10000 | 10100 | 101 | | | | |
| Manganese | 500 | 500 | 100 | | | | |
| Nickel | 500 | 504 | 101 | | | | |
| Potassium | 10000 | 10100 | 101 | | | | |
| Selenium | 2000 | 2060 | 103 | | | | |
| Silver | 50.0 | 51.3 | 103 | | | | |
| Sodium | 10000 | 10000 | 100 | | | | |
| Thallium | 2000 | 2120 | 106 | | | | |
| Vanadium | 500 | 491 | 98 | | | | |
| Zinc | 500 | 498 | 100 | | | | |



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U.S. EPA - CLP
7
LABORATORY CONTROL SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Solid LCS Source: Lab Sample ID: 170001

Aqueous LCS Source: 310006 HIGH PURITY~323003 HIGH

| Analyte | Aqueous (ug/L) True | Found | % R | Solid (mg/kg) True | Found | C | % R |
|---|---|---|---|---|---|---|---|
| Aluminum | 2000 | 2000 | 100 | | | | |
| Antimony | 500 | 494 | 99 | | | | |
| Arsenic | 2000 | 2020 | 101 | | | | |
| Barium | 2000 | 1960 | 98 | | | | |
| Beryllium | 50.0 | 49.5 | 99 | | | | |
| Cadmium | 50.0 | 49.7 | 99 | | | | |
| Calcium | 10000 | 9820 | 98 | | | | |
| Chromium | 200 | 188 | 94 | | | | |
| Cobalt | 500 | 480 | 96 | | | | |
| Copper | 250 | 241 | 97 | | | | |
| Iron | 1000 | 999 | 100 | | | | |
| Lead | 500 | 499 | 100 | | | | |
| Magnesium | 10000 | 9690 | 97 | | | | |
| Manganese | 500 | 495 | 99 | | | | |
| Nickel | 500 | 496 | 99 | | | | |
| Potassium | 10000 | 10100 | 101 | | | | |
| Selenium | 2000 | 2020 | 101 | | | | |
| Silver | 50.0 | 50.7 | 101 | | | | |
| Sodium | 10000 | 9880 | 99 | | | | |
| Thallium | 2000 | 2020 | 101 | | | | |
| Vanadium | 500 | 484 | 97 | | | | |
| Zinc | 500 | 494 | 99 | | | | |



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ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SKSWD031010SD

Lab Name: GCAL

Lab Code: LA024 Case No. SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID 170854

Original Lab Sample ID 20405261715

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Aluminum | 199 | B | 525 | B | 163.8 | | P |
| Antimony | 3.9 | U | 19.5 | U | | | P |
| Arsenic | 5.4 | U | 27.0 | U | | | P |
| Barium | 33.1 | B | 32.6 | B | 1.5 | | P |
| Beryllium | 0.2 | U | 1.0 | U | | | P |
| Cadmium | 0.3 | U | 1.6 | B | 433.3 | | P |
| Calcium | 108000 | | 109000 | | 0.9 | | P |
| Chromium | 1.5 | U | 7.5 | U | | | P |
| Cobalt | 0.6 | U | 3.0 | U | | | P |
| Copper | 1.2 | U | 6.0 | U | | | P |
| Iron | 258 | | 265 | B | 2.7 | | P |
| Lead | 2.4 | U | 12.0 | U | | | P |
| Magnesium | 28700 | | 28900 | | 0.7 | | P |
| Manganese | 87.9 | | 85.9 | | 2.3 | | P |
| Nickel | 1.2 | B | 5.5 | U | 358.3 | | P |
| Potassium | 4100 | B | 4250 | B | 3.7 | | P |
| Selenium | 4.4 | U | 22.0 | U | | | P |
| Silver | 0.9 | U | 4.5 | U | | | P |
| Sodium | 14100 | | 13700 | B | 2.8 | | P |
| Thallium | 6.3 | U | 31.5 | U | | | P |
| Vanadium | 1.1 | U | 5.5 | U | | | P |
| Zinc | 1.3 | B | 3.5 | U | 169.2 | | P |



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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SKSWD031010 (DISS)SD

Lab Name: GCAL

Lab Code: LA024 Case No. SDG No.: 204052617

Matrix: ( soil / water ) Water Lab Sample ID 170856

Original Lab Sample ID 20405261722

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Aluminum | 55.3 | U | 277 | U | | | P |
| Antimony | 3.9 | U | 19.5 | U | | | P |
| Arsenic | 5.4 | U | 27.0 | U | | | P |
| Barium | 32.7 | B | 32.5 | B | 0.6 | | P |
| Beryllium | 0.2 | U | 1.0 | U | | | P |
| Cadmium | 0.3 | U | 2.2 | B | 633.3 | | P |
| Calcium | 107000 | | 108000 | | 0.9 | | P |
| Chromium | 1.5 | U | 7.5 | U | | | P |
| Cobalt | 0.6 | U | 3.0 | U | | | P |
| Copper | 1.2 | U | 6.0 | U | | | P |
| Iron | 22.2 | B | 48.3 | B | 117.6 | | P |
| Lead | 2.4 | U | 12.0 | U | | | P |
| Magnesium | 27800 | | 28700 | | 3.2 | | P |
| Manganese | 77.2 | | 75.9 | | 1.7 | | P |
| Nickel | 1.2 | B | 5.5 | U | 358.3 | | P |
| Potassium | 4200 | B | 4480 | B | 6.7 | | P |
| Selenium | 4.4 | U | 22.0 | U | | | P |
| Silver | 0.9 | U | 4.5 | U | | | P |
| Sodium | 14800 | | 14400 | B | 2.7 | | P |
| Thallium | 6.3 | U | 31.5 | U | | | P |
| Vanadium | 1.1 | U | 5.5 | U | | | P |
| Zinc | 0.7 | U | 3.5 | U | | | P |



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INSTRUMENT DETECTION LIMITS

Lab Name: GCAL

Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 204052617

Instrument ID: ICP5 Study Date: 05/06/04

| Analyte | Wavelength (nm) | Background | CRDL (ug/L) | IDL (ug/L) | M |
|---|---|---|---|---|---|
| Aluminum | 308.210 | | 200 | 55.3 | P |
| Antimony | 206.830 | | 60 | 3.9 | P |
| Arsenic | 193.700 | | 10 | 5.4 | P |
| Barium | 233.520 | | 200 | .3 | P |
| Beryllium | 313.100 | | 5 | .2 | P |
| Cadmium | 214.430 | | 5 | .3 | P |
| Calcium | 315.880 | | 5000 | 7.3 | P |
| Chromium | 267.710 | | 10 | 1.5 | P |
| Cobalt | 228.610 | | 50 | .6 | P |
| Copper | 324.750 | | 25 | 1.2 | P |
| Iron | 259.940 | | 100 | 9.1 | P |
| Lead | 220.350 | | 3 | 2.4 | P |
| Magnesium | 279.080 | | 5000 | 66.9 | P |
| Manganese | 257.610 | | 15 | .6 | P |
| Nickel | 231.600 | | 40 | 1.1 | P |
| Potassium | 766.480 | | 5000 | 97.8 | P |
| Selenium | 196.030 | | 5 | 4.4 | P |
| Silver | 328.060 | | 10 | .9 | P |
| Sodium | 589.580 | | 5000 | 339.7 | P |
| Thallium | 190.800 | | 10 | 6.3 | P |
| Vanadium | 290.880 | | 50 | 1.1 | P |
| Zinc | 213.860 | | 20 | .7 | P |



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ANALYSIS RUN LOG

Lab Name: GCAL  Contract:

Lab Code: LA024  Case No.:  SAS No.:  SDG No.: 204052617

Instrument ID Number: ICP5  Method Type: P

Start Date: 06/03/04  End Date: 06/03/04

| | | | | Analyte Symbols | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EPA Sample No. | D/F | Time | % R | Al | Sb | As | Ba | Be | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Hg | Ni | K | Se | Ag | Na | Tl | V | Zn | Cn |
| ICV | 1 | 1602 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| ICB | 1 | 1609 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CRDL | 1 | 1616 | | | X | X | | X | X | | X | X | X | | X | | X | | X | | X | X | | X | X | X | |
| ICSA | 1 | 1623 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| ICSAB | 1 | 1629 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCV | 1 | 1635 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCB | 1 | 1641 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| MB169998 | 1 | 1648 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSWD031010 | 1 | 1654 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSWD03DUP1010 | 1 | 1700 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSWD031010SD | 5 | 1706 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSWD03MS1010 | 1 | 1713 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSWD031010PDS | 1 | 1719 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| LCS169999 | 1 | 1725 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGWEB1010 | 1 | 1738 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSWDEB1010 | 1 | 1745 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCV | 1 | 1752 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCB | 1 | 1758 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGW591010 | 1 | 1805 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGW601010 | 1 | 1810 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGW62A1010 | 1 | 1816 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGW641010 | 1 | 1822 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSWD03FD1010 | 1 | 1828 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| MB170000 | 1 | 1834 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSWD031010 (DISS) | 1 | 1841 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CRDL | 1 | 1848 | | | X | X | | X | X | | X | X | X | | X | | X | | X | | X | X | | X | X | X | |
| ICSA | 1 | 1854 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |



000536

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ANALYSIS RUN LOG

000537

RESUBMITTED

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204052617

Instrument ID Number: ICP5 Method Type: P

Start Date: 06/03/04 End Date: 06/03/04

| | | | | Analyte Symbols | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EPA Sample No. | D/F | Time | % R | Al | Sb | As | Ba | Be | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Hg | Ni | K | Se | Ag | Na | Tl | V | Zn | Cn |
| ICSAB | 1 | 1900 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCV | 1 | 1906 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCB | 1 | 1912 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSWD03DUP1010 (DISS) | 1 | 1919 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSWD031010 (DISS)SD | 5 | 1926 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSWD03MS1010 (DISS) | 1 | 1933 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSWD031010 (DISS)PDS | 1 | 1939 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| LCS170001 | 1 | 1946 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGWEB1010 (DISS) | 1 | 1959 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSWDEB1010 (DISS) | 1 | 2006 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGW591010 (DISS) | 1 | 2013 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGW601010 (DISS) | 1 | 2020 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCV | 1 | 2027 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCB | 1 | 2033 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGW62A1010 (DISS) | 1 | 2040 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGW641010 (DISS) | 1 | 2046 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKSWD03FD1010 (DISS) | 1 | 2053 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CRDL | 1 | 2100 | | | X | X | | X | X | | X | X | X | | X | | X | | X | | X | X | | X | X | X | |
| ICSA | 1 | 2107 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| ICSAB | 1 | 2113 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCV | 1 | 2119 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCB | 1 | 2125 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |

# DATA VALIDATION REPORT

# FOR

# SKINNER LANDFILL SITE

# EARTH TECH: PROJECT NUMBER 54280

# LABORATORY REPORT NUMBER 204060812

**PROJECT MANAGER: Ron Rolker**

**Date: September 2, 2004**

**Revised Report Dated: August 30, 2005**

**Data Validator: Mark Kromis**

# APPENDIX C
# LIST OF ACRONYMS

| | |
|---|---|
| BFB | Bromofluorobenzene |
| CC | Continuing Calibration |
| CCV | Continuing Calibration Verification |
| CCB | Continuing Calibration Blanks |
| CLP | Contract Laboratory Program |
| CRDL | Contract Required Detection Limit |
| DFTPP | Decafluorotriphenylphosphine |
| GC/MS | Gas Chromatograph/Mass Spectrometer |
| IC | Initial Calibration |
| ICB | Initial Calibration Blank |
| IDL | Instrument Detection Limit |
| ICP | Inductively Coupled Plasma |
| ICS | Interference Check Sample |
| ICV | Initial Calibration Verification |
| ILM | Inorganic Analysis Multi-Media Multi-Concentration |
| INDAM | Individual A Mixture |
| INDBM | Individual B Mixture |
| mg/L | milligrams per liter |
| MS/MSD | Matrix Spike/Matrix Spike Duplicate |
| OLC | Organic Analysis Low Concentration |
| OLM | Organic Analysis Multi-Media Multi-Concentration |
| %D | Percent Difference |
| % RSD | Percent Relative Standard Deviation |
| PB | Preparation Blanks |
| QC | Quality Control |
| RF | Response Factor |
| RPD | Relative Percent Difference |
| RRF | Relative Response Factor |
| SDG | Sample Delivery Group |
| SOW | Statement of Work |
| µg/L | micrograms per liter |
| US EPA | United States Environmental Protection Agency |
| VOC | Volatile Organic Compounds |
| VTSR | Validated Time of Sample Receipt |

## CASE NARRATIVE

**The Inorganic portion of this report was revised do to the submission of additional data for the metals that were not reported by GCAL in the original data package. The following metals were included in the resubmission: Aluminum, Calcium, Cobalt, Magnesium, Manganese, Potassium, Sodium, and Vanadium.**

## DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204060812 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in June 2004, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. The results were reported by GCAL under Sample Delivery Group (SDG) 204060812.

| GCAL # | Sample Description |
|---|---|
| 20406081201 | SKGW06R1010 |
| 20406081202 | SKGW07R1010 |
| 20406081203 | SKGW631010 |
| 20406081204 | SKGW63FD1010 |
| 20406081205 | SKGW611010 |
| 20406081206 | SKGW61MS1010 |
| 20406081208 | SKGW61DUP1010 |
| 20406081210 | SKGW06R1010 (DISS) |
| 20406081211 | SKGW07R1010 (DISS) |
| 20406081212 | SKGW631010 (DISS) |
| 20406081213 | SKGW611010 (DISS) |
| 20406081214 | SKGW61MS1010 (DISS) |
| 20406081215 | SKGW61DUP1010 (DISS) |
| 20406081216 | SKGW63FD1010 (DISS) |

## INTRODUCTION

Analyses of metals were performed according to Contract Laboratory Program (CLP)-Inorganic Analysis Multi-media Multi-concentration ILM04.1 Statement of Work (SOW). Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values maybe used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.
The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Calibration
   A. Initial Calibration (IC)
   B. Continuing Calibration (CC)
3. Blanks
4. Inductively Coupled Plasma (ICP) Interference Check Sample
5. Laboratory Control Sample (LCS)
6. Duplicate Analysis
7. Spike Sample Analysis
8. ICP Serial Dilution
9. System Performance
10. Documentation
11. Overall Assessment

## 1. HOLDING TIMES

All samples for inorganics analyses were analyzed within the 180-day holding time for preserved aqueous samples. Mercury analyses were conducted within the 28-day holding time for aqueous samples undergoing CLP protocol. Cyanide analyses were conducted within the 14-day holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. CALIBRATION

### A. Initial Calibration

The percent recoveries for the Initial Calibration Verification (ICV) standard were within Quality Control (QC) limits for all constituents.

### B. Continuing Calibration

The percent recoveries for the Continuing Calibration Verification (CCV) standard were within QC limits for all constituents.

## 3. BLANKS

The Initial Calibration Blank (ICB), Continuing Calibration Blanks (CCB) and Preparation Blanks (PB) were analyzed at the appropriate frequencies. No constituents were detected in the ICB, CCB, and PB blanks above the corresponding Contract Required Detection Limit (CRDL) with the exception of Zinc in the CCB #'s 4, 5, 6, and 7. As per the National Functional Guidelines; sample results greater than the IDL but less than 5 times the amount found in any blank should be qualified as (U). Technically the run should have been terminated or at a minimum the samples should have been re-analyzed for Zinc.

## 4. ICP INTERFERENCE CHECK SAMPLE

Results for the ICP analysis of the Interference Check Sample (ICS) solution AB were within 20% of the true value.

## 5. LABORATORY CONTROL SAMPLES

Recoveries were within the control limit (80-120%) for all constituents.

## 6. DUPLICATE ANALYSIS

The laboratory used sample SKGW611010 for the duplicate sample. The Relative Percent Difference (RPD) between the sample and duplicate results for the dissolved fraction were within the acceptance criteria (<20%) for all target compounds.

The Relative Percent Difference (RPD) between the sample and duplicate results for the total fraction were within the acceptance criteria (<20%) for all target compounds with the exception of Aluminum, Barium, Calcium, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Sodium, and Zinc.

The Relative Percent Difference (RPD) between the sample and duplicate results in the dissolved fraction were within the acceptance criteria (<20%) for all target compounds with the exception of Barium, Iron, Manganese, and Sodium.

As per the National Functional Guidelines, if the results from a duplicate analysis for a particular analyte falls outside the appropriate fixed control windows; qualify the results for that analyte in all associated samples of the same matrix as estimated (J). Some of the calculations for the RPD between the sample and duplicate were performed incorrectly. The data validator corrected the deficiencies and made the corrections on the Form VI's.

## 7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SKGW611010 for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) with the exception of Arsenic (127%) and Thallium (129%) in the total fraction. As per the National Functional Guidelines: if the percent recovery is greater than 125% qualify detected results for that analyte with "J".

## 8. ICP SERIAL DILUTION

As noted in the National Functional Guidelines: If the analyte concentration is at least 50 times above the IDL, its serial dilution analysis must then agree within 10% of the original determination after corrected for dilution. The serial dilution is performed to determine whether any significant chemical or physical interference's exist due to matrix effects. The serial dilution percent differences were within the acceptance criteria for all target analytes with the exception of Potassium in the total and dissolved fractions. As per the National Functional Guidelines: if the required 10% Difference criteria are not met qualify the associated data as estimated "J".

## 9. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

## 10. DOCUMENTATION

GCAL qualified the total metal results for Arsenic and Potassium with (*) on the Form 1's to indicate that the RPD between the original results and its duplicate result exceeded the control limit. The RPD was actually within the control limit therefore the data validator crossed out the (*) with a single line and dated and initialed the bottom of the report.

## 11. OVERALL ASSESSMENT

The percent recoveries for Chromium in the Contract Required Detection Limit (CRDL) standards were 74.1% 91.8%, and 83%. The percent recoveries for Lead in the Contract Required Detection Limit (CRDL) standards were 101.9%, 63.7%, and 75%. The percent recoveries for Selenium in the Contract Required Detection Limit (CRDL) standards were 99.5%, 115.2%, and 138.4%. The percent recoveries for Zinc in the Contract Required Detection Limit (CRDL) standards were 68.5%, 53.6%, and 53.4%. The detected Selenium results greater than the IDL but less than two times the CRDL were qualified with as estimated with "J". The detected Chromium, Lead, and Zinc results greater than the IDL but less than two times the CRDL were qualified with as estimated with "J" and the non-detected results were qualified with "UJ". The results are acceptable with the validator-added qualifiers.

## DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204060812 SEMIVOLATILE ORGANICS

Validation of the Gas Chromatograph/Mass Spectrometer (GC/MS) semi-volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in June 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. The results were reported by GCAL under SDG 204060812.

| GCAL # | Sample Description |
|---|---|
| 20406081201 | SKGW06R1010 |
| 20406081202 | SKGW07R1010 |
| 20406081203 | SKGW631010 |
| 20406081204 | SKGW63FD1010 |
| 20406081205 | SKGW611010 |
| 20406081206 | SKGW61MS1010 |
| 20406081207 | SKGW61MSD1010 |

## INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various data qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U — The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J — The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ — The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the semivolatile data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Internal Standards Performance
8. Compound Identification
9. Constituent Quantitation and Reported Detection Limits
10. System Performance
11. Documentation
12. Overall Assessment

## 1. HOLDING TIMES

All samples were initially extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. GC/MS TUNING

The samples were analyzed on a single GC/MS system, identified as MSSV3. One decafluorotriphenylphosphine (DFTPP) tune was run representing the shift in which the standards and samples were analyzed. The DFTPP tune is acceptable.

## 3. CALIBRATION

### A. Initial Calibration

One IC dated 6/15/04 was analyzed in support of the semivolatile sample analyses. Documentation of the IC was present in the data package, and the Relative Response Factor (RRF), as well as percent % RSD values were accurately reported for all target compounds. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all semi-volatile compounds. The RRF's and the average RRF were within the acceptance criteria specified in the method for all reported analytes with the exception of 4-Chloroaniline. The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Diethylphthalate (34.5%). The lowest point of the calibration curve was dropped for Diethylphthalate and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Diethylphthalate were not detected in the associated samples therefore data qualification was not required.

As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

### B. Continuing Calibration

One CC dated 6/15/04 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC dated 6/15/04 were within the acceptance criteria with the exception of 4-Chloroaniline. The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 6/15/04 were within the acceptance criteria with the exception the %D for 2,4-Dintrophenol. As per the National Functional Guidelines, if the %D exceeds the acceptance criteria qualify detected results for that analyte with "J" and non-detected results for that analyte with "UJ". The 4-Chloroaniline results were previously qualified under Section 3A titled "Initial calibration".

## 4. BLANKS

Two laboratory semivolatile methods blanks were analyzed with this SDG. The results are summarized below.

<u>Method Blank (0610SBLK)</u>

Bis-(2-ethylhexyl) phthalate (131 ppb) and Di-n-butylphthalate (0.529) were detected in method blank extracted on 6/10/04.

Method Blank (0617SBLK)

Bis-(2-ethylhexyl) phthalate (1.59 ppb) was detected in method blank extracted on 6/17/04

## 5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds were recovered within acceptable control limits.

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

Sample SKGW611010 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of the 4-Nitorphenol and Pentachlorophenol in the MS/MSD and 2,4-Dinitrotoluene in the MSD. The %RPD between the MS/MSD are within the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD data alone.

## 7. INTERNAL STANDARDS PERFORMANCE

Internal standard areas and retention times were within acceptable limits for the reported semivolatile sample analyses.

## 8. COMPOUND IDENTIFICATION

All reported semivolatile constituents were correctly identified with supporting chromatograms present in the data package.

## 9. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for semivolatile constituents with the exception of the results for Bis-(2-ethylhexyl) phthalate in the re-analyzed samples. The data validator re-calculated the constituent quantitations and reported detection limits, then manually made the correction on the Form 1's.

## 10. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data submitted for review.

## 11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the preparation method off of the CLP Form 1's and the Date Extracted off of the CLP Form 1's and IV's.

The data validator manually wrote the preparation method and Date Extracted on the appropriate forms. GCAL also left the "B" qualifier off of the CLP Form 1's for the compound Di-n-butylphthalate therefore the data validator inserted a "B" qualifier in the "Q" column of the CLP Form 1's. The "B" qualifier indicates that the analyte was detected in the associated method blank.

## 12. OVERALL ASSESSMENT

It should be noted that the laboratory re-extracted the samples and extraction blank on 6/17/04 due to the high concentration of Bis-(2-ethylhexyl) phthalate (131 ppb) that was detected in original method blank extracted on 6/10/04. The concentration of Bis-(2-ethylhexyl) phthalate in the re-extracted blank was 1.59 ppb which was approximately that same concentration of Bis-(2-ethylhexyl) phthalate that was detected in some of the samples. The samples were re-extracted outside of the recommended holding time therefore the data validator suggest using the results from the initial extraction. The results are acceptable with the validator-added qualifiers.

## DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204060812 VOLATILE ORGANIC

Validation of the GC/MS volatile organics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in June 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204060812.

| GCAL # | Sample Description |
|---|---|
| 20406081201 | SKGW06R1010 |
| 20406081202 | SKGW07R1010 |
| 20406081203 | SKGW631010 |
| 20406081204 | SKGW63FD1010 |
| 20406081205 | SKGW611010 |
| 20406081206 | SKGW61MS1010 |
| 20406081207 | SKGW61MSD1010 |
| 20406081209 | SKTB1010 |

## INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Low Concentration OLC02.0 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results. The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

The volatiles data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. GC/MS Tuning
3. Calibration
   A. IC
   B. CC
4. Blanks
5. System Monitoring Compound Recovery
6. MS/MSD
7. Laboratory Control Sample
8. Internal Standards Performance
9. Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. System Performance
12. Documentation
13. Overall Assessment

## 1. HOLDING TIMES

All samples for Volatile Organic Compounds (VOC) analyses were analyzed within the 14-day technical holding time and the 10-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. GC/MS TUNING

The samples were analyzed on one GC/MS system, identified as MSV1. One bromofluorobenzene (BFB) tune was run. The BFB tune is acceptable.

## 3. CALIBRATION

### A. Initial Calibration

One IC dated 6/16/04 was analyzed on instrument MSV1 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards is present in the data package, and RRF's as well as %RSD values were accurately reported. The criteria employed for technical data review purposes are different than those used in the method. The laboratory must meet a minimum RRF of 0.01; however, for data review purposes, a RRF criterion of "greater than or equal to 0.05" is applied to all volatile compounds. The %RSD's were within the acceptance criteria specified in the method for all target analytes.

The RRF's and the average RRF for the IC dated 6/16/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone, 2-Butanone, and 2-Hexanone. The %RSD's were within the acceptance criteria specified in the method for all target analytes with exception of Acetone. As per the National Functional Guidelines, if any initial calibration RRF is less than 0.05, qualify positive results that have acceptable mass spectral identification with "J", using professional judgement, and non-detected analytes as unusable (R). It should be noted that the laboratory did meet the minimum RRF of 0.01 for all target compounds.

### B. Continuing Calibration

One CC dated 6/16/04 was analyzed on instrument MSV1 in support of the volatile sample analyses reported in the data submissions. The percent difference (%D) between the average RRF's and the CC RF's were within the acceptance criteria for all target analytes. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone and 2-Butanone associated with the CC dated 6/16/04. The Acetone and 2-Butanone results were previously qualified under section 3A above.

## 4. BLANKS

One laboratory volatile method blank, storage blank, and Trip Blank were analyzed with this SDG. The results are summarized below.

MB173742

There was no target compounds detected in the method blank analyzed on 6/16/04.

Storage Blank (VHBLK01)

There were no target compounds detected in the storage blank analyzed on 6/16/04.

Trip Blank (SKTB1010)

Sulfur dioxide was detected as a TIC at a concentration of 471 ppb.

## 5. SYSTEM MONITORING COMPOUND RECOVERY

All reported volatile system monitoring compounds were recovered within acceptable control limits (80%-120%) for all samples.

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKGW611010 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria except for 1,2-Dichloroethane associated with the MS and cis-1,3-Dichloropropene associated with the MS/MSD. The %RPD between the MS/MSD were within the acceptance criteria. As per the National Functional Guidelines there is no action taken on MS/MSD data alone.

## 7. LABORATORY CONTROL SAMPLE

A LCS/LCS duplicate and a LCS were analyzed in conjunction with this SDG. Recoveries were within the control limit for all constituents.

## 8. INTERNAL STANDARDS PERFORMANCE

Internal Standard (IS) areas and retention times were within acceptable limits for the reported volatile sample analyses.

## 9. COMPOUND IDENTIFICATION

All reported VOCs were correctly identified with supporting chromatograms present in the data package.

## 10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for VOCs.

## 11. SYSTEM PERFORMANCE

The analytical system appears to have been working well at the time of these analyses, based on the evaluation of the raw data.

## 12. DOCUMENTATION

The documentation appeared accurate and in order.

## 13. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

## DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 204060812 PESTICIDES

Validation of the Gas Chromatography (GC) pesticides data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in June 2004, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. The results were reported by GCAL under SDG 204060812.

| GCAL # | Sample Description |
|---|---|
| 20406081201 | SKGW06R1010 |
| 20406081202 | SKGW07R1010 |
| 20406081203 | SKGW631010 |
| 20406081204 | SKGW63FD1010 |
| 20406081205 | SKGW611010 |
| 20406081206 | SKGW61MS1010 |
| 20406081207 | SKGW61MSD1010 |

## INTRODUCTION

Analyses were performed according to CLP-Organic Analysis Multi-Media, Multi-Concentration OLM04.2 SOW. Results of the sample analyses are reported by the laboratory as either qualified or unqualified. Unqualified results mean that the reported values may be used without reservation. Various qualifier codes are used by the laboratory to denote specific information regarding the analytical results.

The data validation process is intended to evaluate the data on a technical basis. The data package also was subjected to an internal laboratory quality review prior to submission to Earth Tech for data validation.

During the validation process, laboratory-qualified and unqualified data are verified against all available supporting documentation. Based on this evaluation, qualifier codes may be added, deleted or modified by the data user. Final results are therefore, either qualified or unqualified. Validator-qualified results are annotated with the following codes in accordance with the Functional Guidelines:

U The constituent was analyzed for, but was not detected above the level of the associated analytical reporting limit. The associated value is either the sample quantitation limit or the sample detection limit.

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Details of the pesticide data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Gas Chromatograph/Electronic Capture Detector (GC/ECD) Instrument Performance Check
3. IC
4. Calibration Verification
5. Blanks
6. Surrogate Spikes
7. Matrix Spike/Matrix Spike Duplicate (MS/MSD)
8. Pesticide Cleanup Checks
9. Target Compound Identification
10. Constituent Quantitation and Reported Detection Limits
11. Documentation
12. Overall Assessment

## 1. HOLDING TIMES

All samples were extracted within the seven-day technical holding time and the five-day VTSR method holding time. The cooler temperature upon receipt at the laboratory was within the recommended temperature of 4°C +/- 2°C.

## 2. GC/ECD INSTRUMENT PERFORMANCE CHECK

The Performance Evaluation Mixture (PEM) was analyzed at the correct frequency. Absolute retention times were within limits.

The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check.

The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM). The percent breakdown for both 4,4-DDT and Endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4-DDT and Endrin in each PEM was less than 30.0% for both GC columns.

## 3. INITIAL CALIBRATION

Individual standard mixtures A and B were analyzed at the correct frequencies and concentrations. The percent resolution criterion was met for Individual standard mixtures A and B.

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20% with the exception of alpha-BHC (23.4%), delta-BHC (27.0), and 4,4'-DDE (20.7%) on column DB-1701. As per the National Functional Guidelines, if the %RSD criteria are not met for the compound(s) being quantified, qualify all associated positive quantitative results with "J" and the sample quantitation limits for non-detected target compounds with "UJ".

The multi-component target compounds were analyzed separately on both columns at a single concentration level. Retention times were determined from a minimum of three peaks.

## 4. CALIBRATION VERIFICATION

Absolute retention times were within appropriate time retention windows

## 5. BLANKS

One laboratory method blank was analyzed with this SDG. The results are summarized below.

<u>Method Blank 172726</u>

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 6/10/04.

## 6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria for all samples.

## 7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKGW611010 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria. The %RPD between the MS/MSD are within the acceptance criteria.

## 8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup.

## 9. TARGET COMPOUND IDENTIFICATION

All reported pesticide data were correctly identified with supporting chromatograms present in the data package.

## 10. CONSTITUENT QUANTITATION AND REPORTED DETECTION LIMITS

Constituent quantitations were correctly calculated and reported for pesticide constituents.

## 11. DOCUMENTATION

The documentation appeared accurate and in order with the exception of the following: GCAL inadvertently left the Date Extracted off of the CLP Form 1's therefore the data validator inserted the Date Extracted on the CLP Form 1's.

## 12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

## REFERENCES

US EPA, 1994. *National Functional Guidelines for Inorganic Data Review.*

US EPA, 1999. *National Functional Guidelines for Organic Data Review.*

GCAL
GULF COAST ANALYTICAL LABORATORIES, INC

*NELAP CERTIFICATE NUMBER 01955*

# ANALYTICAL RESULTS

**PERFORMED BY**

**GULF COAST ANALYTICAL LABORATORIES, INC.**

**Report Date** 06/29/2004

**GCAL Report** 204060812

RESUBMITTED

| | |
|---|---|
| ***Deliver To*** | Earth Tech<br>200 Vine Street<br>Wilder, KY 41076<br>859-442-2300 |
| ***Attn*** | Pat Higgins |

***Customer*** Earth Tech

***Project*** Skinner Landfill

# CASE NARRATIVE

**Client:** Earth Tech **Report:** 204060812

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

In the ILM04.1 CLP metals, Forms I, II, III, V, VI, VII, IX, X, and XIV were resubmitted 07/28/2005 to report TAL metals.

## SEMI-VOLATILES MASS SPECTROMETRY

In prep batch 275540, the method blank (172721) had a hit for bis(2-ethylhexyl)phthalate. The samples were re-extracted outside of holding time. This data is being submitted as additional data.

In the prep batch 275540, the MS/MSD exhibited sporadic recovery failures. These recoveries were within limits in the LCS. This is attributed to matrix interference.

## METALS

In the ILM04.1 - CLP Metals analysis for prep batch 275562, the MS recoveries were outside the control limits for Arsenic and Thallium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with recoveries of 91% for Arsenic and 113% for Thallium. The MS recovery is not applicable for Iron because the sample concentration is greater than four times the spike concentration. The Sample/Duplicate RPD for Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Nickel, and Zinc are not applicable because the sample and/or duplicate concentration is less than five times the reporting limit. The Sample/Duplicate RPD for Aluminum, Calcium, Cobalt, Magnesium, Manganese, Sodium, and Vanadium were outside of control limits.

The Sample/Duplicate RPD for Barium, Iron, and Nickel for prep batch 275564 are not applicable because the sample and/or duplicate concentration is less than five times the reporting limit. The Sample/Duplicate RPD for Cobalt, Manganese, Potassium and Sodium were outside of control limits.



RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW06R1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081201

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 4950 | | * | P | J |
| 7440-36-0 | Antimony | 8.2 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 103 | B | * | P | J |
| 7440-41-7 | Beryllium | 0.7 | B | | P | |
| 7440-43-9 | Cadmium | 1.5 | B | | P | |
| 7440-70-2 | Calcium | 224000 | | * | P | J |
| 7440-47-3 | Chromium | 5.3 | B | * | P | J |
| 7440-48-4 | Cobalt | 6.6 | B | | P | |
| 7440-50-8 | Copper | 12.0 | B | * | P | J |
| 7439-89-6 | Iron | 17300 | | * | P | J |
| 7439-92-1 | Lead | 9.3 | | * | P | J |
| 7439-95-4 | Magnesium | 46800 | | * | P | J |
| 7439-96-5 | Manganese | 758 | | * | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 17.2 | B | * | P | J |
| 7440-09-7 | Potassium | 8320 | | ,E | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 28600 | | * | P | J |
| 7440-28-0 | Thallium | 6.3 | U | N | P | |
| 7440-62-2 | Vanadium | 3.7 | B | | P | |
| 7440-66-6 | Zinc | 22.1 | | * | P | UJ |
| 57-12-5 | Cyanide | 3.3 | B | | AS | |

8/31/05 mm

Color Before: LT.BROWN Clarity Before: CLEAR Texture:

Color After: LT.BROWN Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW07R1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081202

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 10300 | | * | P | J |
| 7440-36-0 | Antimony | 4.5 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N ~~*~~ | P | |
| 7440-39-3 | Barium | 570 | | * | P | J |
| 7440-41-7 | Beryllium | 0.8 | B | | P | |
| 7440-43-9 | Cadmium | 1.2 | B | | P | |
| 7440-70-2 | Calcium | 260000 | | * | P | J |
| 7440-47-3 | Chromium | 17.4 | | * | P | J |
| 7440-48-4 | Cobalt | 9.1 | B | | P | |
| 7440-50-8 | Copper | 31.1 | | * | P | J |
| 7439-89-6 | Iron | 26900 | | * | P | J |
| 7439-92-1 | Lead | 15.7 | | * | P | J |
| 7439-95-4 | Magnesium | 54300 | | * | P | J |
| 7439-96-5 | Manganese | 2020 | | * | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 24.0 | B | * | P | J |
| 7440-09-7 | Potassium | 5060 | | ~~*~~,E | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 27100 | | * | P | J |
| 7440-28-0 | Thallium | 6.3 | U | N | P | |
| 7440-62-2 | Vanadium | 15.2 | B | | P | |
| 7440-66-6 | Zinc | 35.5 | | * | P | UJ |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

8/31/05
MSK

Color Before: LT.YELLOW Clarity Before: CLEAR Texture:

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW631010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081203

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 44700 | | * | P | J |
| 7440-36-0 | Antimony | 13.6 | B | | P | |
| 7440-38-2 | Arsenic | 9.7 | B | N | P | J |
| 7440-39-3 | Barium | 334 | | * | P | J |
| 7440-41-7 | Beryllium | 3.4 | B | | P | |
| 7440-43-9 | Cadmium | 3.9 | B | | P | |
| 7440-70-2 | Calcium | 659000 | | * | P | J |
| 7440-47-3 | Chromium | 66.8 | | * | P | J |
| 7440-48-4 | Cobalt | 56.1 | | | P | |
| 7440-50-8 | Copper | 104 | | * | P | J |
| 7439-89-6 | Iron | 112000 | | * | P | J |
| 7439-92-1 | Lead | 76.4 | | * | P | J |
| 7439-95-4 | Magnesium | 148000 | | * | P | J |
| 7439-96-5 | Manganese | 5580 | | * | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 114 | | * | P | J |
| 7440-09-7 | Potassium | 15800 | | E | P | J |
| 7782-49-2 | Selenium | 7.2 | | | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 81700 | | * | P | J |
| 7440-28-0 | Thallium | 6.3 | U | N | P | |
| 7440-62-2 | Vanadium | 69.3 | | | P | |
| 7440-66-6 | Zinc | 292 | | * | P | J |
| 57-12-5 | Cyanide | 1.2 | B | | AS | |

8/31/05
MSL

Color Before: DK.BROWN Clarity Before: CLOUDY Texture:

Color After: DK.BROWN Clarity After: CLOUDY Artifacts:

Comments:



RESUBMITTED

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW63FD1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081204

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 42200 | | * | P | J |
| 7440-36-0 | Antimony | 13.0 | B | | P | |
| 7440-38-2 | Arsenic | 6.2 | B | N | P | J |
| 7440-39-3 | Barium | 319 | | * | P | J |
| 7440-41-7 | Beryllium | 3.3 | B | | P | |
| 7440-43-9 | Cadmium | 3.8 | B | | P | |
| 7440-70-2 | Calcium | 584000 | | * | P | J |
| 7440-47-3 | Chromium | 60.4 | | * | P | J |
| 7440-48-4 | Cobalt | 53.2 | | | P | |
| 7440-50-8 | Copper | 95.7 | | * | P | J |
| 7439-89-6 | Iron | 105000 | | * | P | J |
| 7439-92-1 | Lead | 72.0 | | * | P | J |
| 7439-95-4 | Magnesium | 130000 | | * | P | J |
| 7439-96-5 | Manganese | 4960 | | * | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 109 | | * | P | J |
| 7440-09-7 | Potassium | 14800 | | ,E | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 73100 | | * | P | J |
| 7440-28-0 | Thallium | 6.3 | U | N | P | |
| 7440-62-2 | Vanadium | 64.5 | | | P | |
| 7440-66-6 | Zinc | 277 | | * | P | J |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

8/31/05
MCR

Color Before: DK.BROWN Clarity Before: CLOUDY Texture:

Color After: DK.BROWN Clarity After: CLOUDY Artifacts:

Comments:



000436
RESUBMITTED

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW611010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081205

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 5090 | | * | P | J |
| 7440-36-0 | Antimony | 5.2 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | N | P | |
| 7440-39-3 | Barium | 108 | B | * | P | J |
| 7440-41-7 | Beryllium | 0.6 | B | | P | |
| 7440-43-9 | Cadmium | 1.2 | B | | P | |
| 7440-70-2 | Calcium | 217000 | | * | P | J |
| 7440-47-3 | Chromium | 8.1 | B | * | P | J |
| 7440-48-4 | Cobalt | 6.5 | B | | P | |
| 7440-50-8 | Copper | 12.4 | B | * | P | J |
| 7439-89-6 | Iron | 17500 | | * | P | J |
| 7439-92-1 | Lead | 9.3 | | * | P | J |
| 7439-95-4 | Magnesium | 45200 | | * | P | J |
| 7439-96-5 | Manganese | 751 | | * | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 17.2 | B | * | P | J |
| 7440-09-7 | Potassium | 9300 | | E | P | |
| 7782-49-2 | Selenium | 4.4 | U | | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 30300 | | * | P | J |
| 7440-28-0 | Thallium | 6.3 | U | N | P | |
| 7440-62-2 | Vanadium | 3.4 | B | | P | |
| 7440-66-6 | Zinc | 22.4 | | * | P | UJ |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

8/31/05
MRK

Color Before: LT.YELLOW Clarity Before: CLEAR Texture:

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:



000437
RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW61MS1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081206

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 7220 | | * | P | J |
| 7440-36-0 | Antimony | 99.6 | | | P | |
| 7440-38-2 | Arsenic | 51.0 | | N | P | J |
| 7440-39-3 | Barium | 2150 | | * | P | J |
| 7440-41-7 | Beryllium | 51.4 | | | P | |
| 7440-43-9 | Cadmium | 51.8 | | | P | |
| 7440-70-2 | Calcium | 230000 | | * | P | J |
| 7440-47-3 | Chromium | 209 | | * | P | J |
| 7440-48-4 | Cobalt | 500 | | | P | |
| 7440-50-8 | Copper | 273 | | * | P | J |
| 7439-89-6 | Iron | 18800 | | * | P | J |
| 7439-92-1 | Lead | 29.8 | | * | P | J |
| 7439-95-4 | Magnesium | 46000 | | * | P | J |
| 7439-96-5 | Manganese | 1270 | | * | P | J |
| 7439-97-6 | Mercury | 5.5 | | | AV | |
| 7440-02-0 | Nickel | 521 | | * | P | J |
| 7440-09-7 | Potassium | 8960 | | E | P | J |
| 7782-49-2 | Selenium | 9.3 | | | P | |
| 7440-22-4 | Silver | 49.3 | | | P | |
| 7440-23-5 | Sodium | 31100 | | * | P | J |
| 7440-28-0 | Thallium | 64.6 | | N | P | J |
| 7440-62-2 | Vanadium | 512 | | | P | |
| 7440-66-6 | Zinc | 536 | | * | P | J |
| 57-12-5 | Cyanide | 88.2 | | | AS | |

8/31/05 MSK

Color Before: LT.YELLOW Clarity Before: CLEAR Texture:

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW61DUP1010

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081208

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 23700 | | * | P | J |
| 7440-36-0 | Antimony | 12.1 | B | | P | |
| 7440-38-2 | Arsenic | 12.7 | | N | P | J |
| 7440-39-3 | Barium | 743 | | * | P | J |
| 7440-41-7 | Beryllium | 2.5 | B | | P | |
| 7440-43-9 | Cadmium | 2.9 | B | | P | |
| 7440-70-2 | Calcium | 522000 | | * | P | J |
| 7440-47-3 | Chromium | 39.5 | | * | P | J |
| 7440-48-4 | Cobalt | 46.6 | B | | P | |
| 7440-50-8 | Copper | 80.5 | | * | P | J |
| 7439-89-6 | Iron | 61800 | | * | P | J |
| 7439-92-1 | Lead | 66.9 | | * | P | J |
| 7439-95-4 | Magnesium | 163000 | | * | P | J |
| 7439-96-5 | Manganese | 6980 | | * | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 64.7 | | * | P | J |
| 7440-09-7 | Potassium | 7820 | | ,E | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 24000 | | * | P | J |
| 7440-28-0 | Thallium | 6.3 | U | N | P | |
| 7440-62-2 | Vanadium | 47.1 | B | | P | |
| 7440-66-6 | Zinc | 181 | | * | P | J |
| 57-12-5 | Cyanide | 0.5 | U | | AS | |

8/31/05
msu

Color Before: LT.YELLOW Clarity Before: CLEAR Texture:

Color After: LT.YELLOW Clarity After: CLEAR Artifacts:

Comments:



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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW06R1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081210

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 85.2 | B | | P | |
| 7440-36-0 | Antimony | 7.7 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 45.4 | B | * | P | J |
| 7440-41-7 | Beryllium | 0.2 | B | | P | |
| 7440-43-9 | Cadmium | 0.5 | B | | P | |
| 7440-70-2 | Calcium | 176000 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | UJ |
| 7440-48-4 | Cobalt | 1.6 | B | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 1360 | | * | P | J |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 33100 | | | P | |
| 7439-96-5 | Manganese | 481 | | * | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 3.4 | B | | P | |
| 7440-09-7 | Potassium | 7180 | | E | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 29000 | | * | P | J |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

8/31/05 MSH

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW07R1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081211

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 62.0 | B | | P | |
| 7440-36-0 | Antimony | 3.9 | U | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 119 | B | * | P | J |
| 7440-41-7 | Beryllium | 0.2 | B | | P | |
| 7440-43-9 | Cadmium | 0.9 | B | | P | |
| 7440-70-2 | Calcium | 184000 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | UJ |
| 7440-48-4 | Cobalt | 0.9 | B | | P | |
| 7440-50-8 | Copper | 1.4 | B | | P | |
| 7439-89-6 | Iron | 41.3 | B | * | P | J |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 28100 | | | P | |
| 7439-96-5 | Manganese | 1090 | | * | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 3.5 | B | | P | |
| 7440-09-7 | Potassium | 2580 | B | E | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 25500 | | * | P | J |
| 7440-28-0 | Thallium | 8.5 | B | | P | |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

8/31/05 MKR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW631010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081212

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 82.4 | B | | P | |
| 7440-36-0 | Antimony | 11.3 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 29.9 | B | * | P | J |
| 7440-41-7 | Beryllium | 0.5 | B | | P | |
| 7440-43-9 | Cadmium | 1.3 | B | | P | |
| 7440-70-2 | Calcium | 287000 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | UJ |
| 7440-48-4 | Cobalt | 3.6 | B | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 620 | | * | P | J |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 67400 | | | P | |
| 7439-96-5 | Manganese | 1840 | | * | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 8.8 | B | | P | |
| 7440-09-7 | Potassium | 7800 | | E | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 75100 | | * | P | J |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

8/31/05
MN

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW611010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081213

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 55.3 | U | | P | |
| 7440-36-0 | Antimony | 4.5 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 45.3 | B | * | P | J |
| 7440-41-7 | Beryllium | 0.2 | B | | P | |
| 7440-43-9 | Cadmium | 0.9 | B | | P | |
| 7440-70-2 | Calcium | 178000 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | UJ |
| 7440-48-4 | Cobalt | 1.4 | B | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 1370 | | * | P | J |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 34100 | | | P | |
| 7439-96-5 | Manganese | 481 | | * | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 4.7 | B | | P | |
| 7440-09-7 | Potassium | 7160 | | E | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 28600 | | * | P | J |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

8/31/05
MK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW61MS1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081214

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 2030 | | | P | |
| 7440-36-0 | Antimony | 112 | | | P | |
| 7440-38-2 | Arsenic | 48.5 | | | P | |
| 7440-39-3 | Barium | 2110 | | * | P | J |
| 7440-41-7 | Beryllium | 51.5 | | | P | |
| 7440-43-9 | Cadmium | 53.7 | | | P | |
| 7440-70-2 | Calcium | 178000 | | | P | |
| 7440-47-3 | Chromium | 198 | | | P | |
| 7440-48-4 | Cobalt | 504 | | | P | |
| 7440-50-8 | Copper | 257 | | | P | |
| 7439-89-6 | Iron | 2400 | | * | P | J |
| 7439-92-1 | Lead | 19.7 | | | P | |
| 7439-95-4 | Magnesium | 35900 | | | P | |
| 7439-96-5 | Manganese | 1000 | | * | P | J |
| 7439-97-6 | Mercury | 5.0 | | | AV | |
| 7440-02-0 | Nickel | 520 | | | P | |
| 7440-09-7 | Potassium | 7070 | | E | P | J |
| 7782-49-2 | Selenium | 9.6 | | | P | |
| 7440-22-4 | Silver | 49.3 | | | P | |
| 7440-23-5 | Sodium | 27900 | | * | P | J |
| 7440-28-0 | Thallium | 58.2 | | | P | |
| 7440-62-2 | Vanadium | 509 | | | P | |
| 7440-66-6 | Zinc | 491 | | | P | |

8/31/05
MM

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW61DUP1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081215

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 55.3 | U | | P | |
| 7440-36-0 | Antimony | 5.5 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 271 | | * | P | J |
| 7440-41-7 | Beryllium | 0.2 | B | | P | |
| 7440-43-9 | Cadmium | 0.9 | B | | P | |
| 7440-70-2 | Calcium | 184000 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | UJ |
| 7440-48-4 | Cobalt | 0.6 | U | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 36.6 | B | * | P | J |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 31000 | | | P | |
| 7439-96-5 | Manganese | 241 | | * | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 2.6 | B | | P | |
| 7440-09-7 | Potassium | 2540 | B | E | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 21200 | | * | P | J |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

8/31/05
MIR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTE

U.S. EPA - CLP
1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW63FD1010 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID: 20406081216

Level: ( low / med ) Date Received: 06/08/04

% Solids:

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

| CAS No. | Analyte | Concentration | C | Q | M | |
|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 55.3 | U | | P | |
| 7440-36-0 | Antimony | 10.1 | B | | P | |
| 7440-38-2 | Arsenic | 5.4 | U | | P | |
| 7440-39-3 | Barium | 30.8 | B | * | P | J |
| 7440-41-7 | Beryllium | 0.3 | B | | P | |
| 7440-43-9 | Cadmium | 0.8 | B | | P | |
| 7440-70-2 | Calcium | 286000 | | | P | |
| 7440-47-3 | Chromium | 1.5 | U | | P | UJ |
| 7440-48-4 | Cobalt | 2.8 | B | | P | |
| 7440-50-8 | Copper | 1.2 | U | | P | |
| 7439-89-6 | Iron | 399 | | * | P | J |
| 7439-92-1 | Lead | 2.4 | U | | P | UJ |
| 7439-95-4 | Magnesium | 66000 | | | P | |
| 7439-96-5 | Manganese | 1660 | | * | P | J |
| 7439-97-6 | Mercury | 0.1 | U | | AV | |
| 7440-02-0 | Nickel | 8.0 | B | | P | |
| 7440-09-7 | Potassium | 7190 | | E | P | J |
| 7782-49-2 | Selenium | 4.4 | U | | P | UJ |
| 7440-22-4 | Silver | 0.9 | U | | P | |
| 7440-23-5 | Sodium | 68300 | | * | P | J |
| 7440-28-0 | Thallium | 6.3 | U | | P | |
| 7440-62-2 | Vanadium | 1.1 | U | | P | |
| 7440-66-6 | Zinc | 0.7 | U | | P | UJ |

8/31/05
MSM

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:



RESUBMITTED

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Calibration Source: 106-89-3 CPI Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 06/21/04 Time: 0913

## CRDL STANDARD

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---|---|---|---|---|---|---|
| Antimony | 120 | 117 | 97 | ug/L | ILM04.1 - CLP Metals | P |
| Arsenic | 20.0 | 24.1 | 121 | ug/L | ILM04.1 - CLP Metals | P |
| Beryllium | 10.0 | 9.60 | 96 | ug/L | ILM04.1 - CLP Metals | P |
| Cadmium | 10.0 | 10.0 | 100 | ug/L | ILM04.1 - CLP Metals | P |
| Chromium | 20.0 | 15.8 | 79 | ug/L | ILM04.1 - CLP Metals | P |
| Cobalt | 100 | 95.1 | 95 | ug/L | ILM04.1 - CLP Metals | P |
| Copper | 50.0 | 47.1 | 94 | ug/L | ILM04.1 - CLP Metals | P |
| Lead | 6.00 | 5.90 | 99 | ug/L | ILM04.1 - CLP Metals | P |
| Manganese | 30.0 | 30.7 | 102 | ug/L | ILM04.1 - CLP Metals | P |
| Nickel | 80.0 | 80.7 | 101 | ug/L | ILM04.1 - CLP Metals | P |
| Selenium | 10.0 | 7.70 | 77 | ug/L | ILM04.1 - CLP Metals | P |
| Silver | 20.0 | 19.1 | 95 | ug/L | ILM04.1 - CLP Metals | P |
| Thallium | 20.0 | 16.5 | 83 | ug/L | ILM04.1 - CLP Metals | P |
| Vanadium | 100 | 94.9 | 95 | ug/L | ILM04.1 - CLP Metals | P |
| Zinc | 40.0 | 36.2 | 91 | ug/L | ILM04.1 - CLP Metals | P |



RESUBMITTED

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204060812
Calibration Source: 106-89-3 CPI
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 06/21/04 Time: 1154

## CRDL STANDARD

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---|---|---|---|---|---|---|
| Antimony | 120 | 120 | 100 | ug/L | ILM04.1 - CLP Metals | P |
| Arsenic | 20.0 | 23.0 | 115 | ug/L | ILM04.1 - CLP Metals | P |
| Beryllium | 10.0 | 9.90 | 99 | ug/L | ILM04.1 - CLP Metals | P |
| Cadmium | 10.0 | 10.8 | 108 | ug/L | ILM04.1 - CLP Metals | P |
| Chromium | 20.0 | 14.8 | 74 | ug/L | ILM04.1 - CLP Metals | P |
| Cobalt | 100 | 99.0 | 99 | ug/L | ILM04.1 - CLP Metals | P |
| Copper | 50.0 | 47.1 | 94 | ug/L | ILM04.1 - CLP Metals | P |
| Lead | 6.00 | 6.10 | 102 | ug/L | ILM04.1 - CLP Metals | P |
| Manganese | 30.0 | 31.6 | 105 | ug/L | ILM04.1 - CLP Metals | P |
| Nickel | 80.0 | 84.3 | 105 | ug/L | ILM04.1 - CLP Metals | P |
| Selenium | 10.0 | 10.0 | 100 | ug/L | ILM04.1 - CLP Metals | P |
| Silver | 20.0 | 18.4 | 92 | ug/L | ILM04.1 - CLP Metals | P |
| Thallium | 20.0 | 19.8 | 99 | ug/L | ILM04.1 - CLP Metals | P |
| Vanadium | 100 | 97.9 | 98 | ug/L | ILM04.1 - CLP Metals | P |
| Zinc | 40.0 | 27.4 | 69 | ug/L | ILM04.1 - CLP Metals | P |



000450A
ADDITION

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Calibration Source: 106-89-3 CPI Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 06/21/04 Time: 1457

## CRDL STANDARD

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---|---|---|---|---|---|---|
| Antimony | 120 | 111 | 92 | ug/L | ILM04.1 - CLP Metals | P |
| Arsenic | 20.0 | 18.9 | 95 | ug/L | ILM04.1 - CLP Metals | P |
| Beryllium | 10.0 | 9.50 | 95 | ug/L | ILM04.1 - CLP Metals | P |
| Cadmium | 10.0 | 9.80 | 98 | ug/L | ILM04.1 - CLP Metals | P |
| Chromium | 20.0 | 18.4 | 92 | ug/L | ILM04.1 - CLP Metals | P |
| Cobalt | 100 | 95.9 | 96 | ug/L | ILM04.1 - CLP Metals | P |
| Copper | 50.0 | 48.4 | 97 | ug/L | ILM04.1 - CLP Metals | P |
| Lead | 6.00 | 3.80 | 64 | ug/L | ILM04.1 - CLP Metals | P |
| Manganese | 30.0 | 30.6 | 102 | ug/L | ILM04.1 - CLP Metals | P |
| Nickel | 80.0 | 80.5 | 101 | ug/L | ILM04.1 - CLP Metals | P |
| Selenium | 10.0 | 11.5 | 115 | ug/L | ILM04.1 - CLP Metals | P |
| Silver | 20.0 | 20.0 | 100 | ug/L | ILM04.1 - CLP Metals | P |
| Thallium | 20.0 | 17.6 | 88 | ug/L | ILM04.1 - CLP Metals | P |
| Vanadium | 100 | 95.9 | 96 | ug/L | ILM04.1 - CLP Metals | P |
| Zinc | 40.0 | 21.4 | 54 | ug/L | ILM04.1 - CLP Metals | P |



RESUBMITTED

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204060812
Calibration Source: 106-89-3 CPI
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 06/21/04 Time: 1809

## CRDL STANDARD

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---|---|---|---|---|---|---|
| Antimony | 120 | 121 | 100 | ug/L | ILM04.1 - CLP Metals | P |
| Arsenic | 20.0 | 19.7 | 98 | ug/L | ILM04.1 - CLP Metals | P |
| Beryllium | 10.0 | 10.0 | 100 | ug/L | ILM04.1 - CLP Metals | P |
| Cadmium | 10.0 | 10.5 | 105 | ug/L | ILM04.1 - CLP Metals | P |
| Chromium | 20.0 | 16.5 | 82 | ug/L | ILM04.1 - CLP Metals | P |
| Cobalt | 100 | 98.1 | 98 | ug/L | ILM04.1 - CLP Metals | P |
| Copper | 50.0 | 48.3 | 97 | ug/L | ILM04.1 - CLP Metals | P |
| Lead | 6.00 | 4.50 | 75 | ug/L | ILM04.1 - CLP Metals | P |
| Manganese | 30.0 | 31.6 | 105 | ug/L | ILM04.1 - CLP Metals | P |
| Nickel | 80.0 | 83.6 | 105 | ug/L | ILM04.1 - CLP Metals | P |
| Selenium | 10.0 | 13.8 | 138 | ug/L | ILM04.1 - CLP Metals | P |
| Silver | 20.0 | 19.6 | 98 | ug/L | ILM04.1 - CLP Metals | P |
| Thallium | 20.0 | 22.5 | 112 | ug/L | ILM04.1 - CLP Metals | P |
| Vanadium | 100 | 98.0 | 98 | ug/L | ILM04.1 - CLP Metals | P |
| Zinc | 40.0 | 21.3 | 53 | ug/L | ILM04.1 - CLP Metals | P |

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204060812
Calibration Source: 106-86-8 EXAXOL
Instrument ID: FIMS1 ICAL ID: 1
Date Analyzed: 06/24/04 Time: 0930

## CRDL STANDARD

| Analyte | True | Found | CAL %R | Units | Method | Type |
|---|---|---|---|---|---|---|
| Mercury | 0.200 | 0.200 | 111 | ug/L | ILM04.1 CLP HG | AV |



RESUBMITTED

U.S. EPA - CLP
3
BLANKS

Lab Name GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Preparation Blank Matrix: (soil / water) Water

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

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) 1 | C | 2 | C | 3 | C | Prepa-ration Blank | C | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 59.7 | B | 55.3 | U | 55.3 | U | 80.1 | B | 86.297 | B | P |
| Antimony | 4.9 | B | 3.9 | U | 3.9 | U | 3.9 | U | 3.900 | U | P |
| Arsenic | 5.4 | U | 5.4 | U | 5.4 | U | 5.4 | U | 5.400 | U | P |
| Barium | 0.3 | U | 0.3 | U | 0.4 | B | 0.3 | U | 0.300 | U | P |
| Beryllium | 0.3 | B | 0.2 | B | 0.2 | U | 0.4 | B | 0.206 | B | P |
| Cadmium | 0.8 | B | 0.6 | B | 0.3 | U | 0.9 | B | 1.251 | B | P |
| Calcium | 10.2 | B | 12.8 | B | -8.3 | B | 17.2 | B | 16.246 | B | P |
| Chromium | -3.1 | B | -3.1 | B | 1.5 | U | -5.5 | B | -4.650 | B | P |
| Cobalt | 0.6 | U | 0.6 | U | 0.6 | U | 0.7 | B | 0.772 | B | P |
| Copper | -1.3 | B | 1.2 | U | 1.2 | U | 1.2 | U | 1.200 | U | P |
| Iron | 12.1 | B | 15.3 | B | 9.1 | U | 23.3 | B | 57.792 | B | P |
| Lead | 2.4 | U | 2.4 | U | 2.4 | U | 2.4 | U | -2.889 | B | P |
| Magnesium | 66.9 | U | 66.9 | U | 66.9 | U | 86.7 | B | 120.117 | B | P |
| Manganese | 0.6 | U | 0.6 | U | 0.6 | U | 0.6 | U | 0.600 | U | P |
| Mercury | 0.1 | U | 0.1 | U | 0.1 | U | 0.1 | U | 0.100 | U | AV |
| Nickel | 1.2 | B | 1.1 | U | 1.1 | U | 1.7 | B | 1.100 | U | P |
| Potassium | 97.8 | U | 97.8 | U | 97.8 | U | 97.8 | U | 97.800 | U | P |
| Selenium | 4.4 | U | 4.4 | U | 4.4 | U | -4.6 | B | 4.400 | U | P |
| Silver | 0.9 | U | 0.9 | U | 0.9 | U | -1.6 | B | 0.900 | U | P |
| Sodium | 339.7 | U | 339.7 | U | 339.7 | U | 339.7 | U | 340.000 | U | P |
| Thallium | 6.3 | U | 6.3 | U | 6.3 | U | 6.3 | U | 6.300 | U | P |
| Vanadium | 1.1 | U | 1.1 | U | 1.5 | B | 1.1 | U | 1.100 | U | P |
| Zinc | -2.3 | B | -10.1 | B | -17.4 | B | -17.9 | B | -18.208 | B | P |
| Cyanide | 1.0 | U | 0.5 | U | | | | | 0.500 | U | AS |



RESUBMITTED

U.S. EPA - CLP
3
BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Preparation Blank Matrix: (soil / water) Water

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

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) 4 | C | 5 | C | 6 | C | Prepa-ration Blank | C | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | | 55.3 | U | 55.3 | U | 59.0 | B | 55.374 | B | P |
| Antimony | | | 3.9 | U | 3.9 | U | 3.9 | U | 3.900 | U | P |
| Arsenic | | | 5.4 | U | 5.4 | U | 5.4 | U | 5.400 | U | P |
| Barium | | | 0.3 | U | 0.3 | U | 0.3 | U | 0.300 | U | P |
| Beryllium | | | 0.2 | U | 0.2 | U | 0.4 | B | 0.211 | B | P |
| Cadmium | | | 0.7 | B | 0.3 | B | 1.3 | B | 0.800 | U | P |
| Calcium | | | 9.8 | B | 7.3 | U | 25.0 | B | 7.300 | U | P |
| Chromium | | | -2.6 | B | -1.7 | B | -7.5 | B | -3.400 | B | P |
| Cobalt | | | 0.6 | B | 0.6 | U | 0.7 | B | 0.600 | U | P |
| Copper | | | 1.2 | U | 1.2 | U | -1.4 | B | 1.200 | U | P |
| Iron | | | 9.8 | B | 9.1 | U | 24.4 | B | 10.679 | B | P |
| Lead | | | -2.6 | B | 2.4 | U | 2.4 | U | 2.400 | U | P |
| Magnesium | | | 66.9 | U | -81.8 | B | 73.3 | B | 66.900 | U | P |
| Manganese | | | 0.6 | U | 0.6 | U | 0.6 | U | 0.600 | U | P |
| Mercury | | | 0.1 | U | 0.1 | U | | | 0.100 | U | AV |
| Nickel | | | 1.1 | U | 1.1 | U | 1.7 | B | 1.100 | U | P |
| Potassium | | | 97.8 | U | 97.8 | U | 97.8 | U | 97.800 | U | P |
| Selenium | | | 4.4 | U | 4.4 | U | 4.4 | U | -4.716 | B | P |
| Silver | | | 0.9 | U | 0.9 | U | -1.8 | B | -1.285 | B | P |
| Sodium | | | 339.7 | U | 339.7 | U | -351.8 | B | 340.000 | U | P |
| Thallium | | | 6.3 | U | -8.5 | B | 6.3 | U | 6.300 | U | P |
| Vanadium | | | 1.1 | U | 1.1 | U | -2.0 | B | 1.100 | U | P |
| Zinc | | | -20.4 | | -22.0 | | -20.1 | | -21.814 | B | P |
| Cyanide | | | | | | | | | | | AS |



RESUBMITTED

U.S. EPA - CLP
3
BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Preparation Blank Matrix: (soil / water)

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

| Analyte | Initial Calib. Blank (ug/L) | C | Continuing Calibration Blank (ug/L) 7 | C | 8 | C | 9 | C | Prepa-ration Blank | C | M |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | | | 68.4 | B | | | | | | | P |
| Antimony | | | 3.9 | U | | | | | | | P |
| Arsenic | | | 5.4 | U | | | | | | | P |
| Barium | | | 0.3 | U | | | | | | | P |
| Beryllium | | | 0.3 | B | | | | | | | P |
| Cadmium | | | 0.5 | B | | | | | | | P |
| Calcium | | | 12.9 | B | | | | | | | P |
| Chromium | | | -3.9 | B | | | | | | | P |
| Cobalt | | | 0.6 | U | | | | | | | P |
| Copper | | | 1.2 | U | | | | | | | P |
| Iron | | | 17.7 | B | | | | | | | P |
| Lead | | | 2.4 | U | | | | | | | P |
| Magnesium | | | 66.9 | U | | | | | | | P |
| Manganese | | | 0.6 | U | | | | | | | P |
| Mercury | | | | | | | | | | | AV |
| Nickel | | | 1.4 | B | | | | | | | P |
| Potassium | | | 97.8 | U | | | | | | | P |
| Selenium | | | 4.4 | U | | | | | | | P |
| Silver | | | -1.3 | B | | | | | | | P |
| Sodium | | | 339.7 | U | | | | | | | P |
| Thallium | | | 6.3 | U | | | | | | | P |
| Vanadium | | | 1.1 | U | | | | | | | P |
| Zinc | | | -22.0 | | | | | | | | P |
| Cyanide | | | | | | | | | | | AS |



RESUBMITTED

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKGW61MS1010

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: ( soil / water ) Water SAS No.: SDG No.: 204060812

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20406081205 Original Lab Sample ID: 20406081206

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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 75 | 125 | 7220 | | 5090 | | 2000 | 106 | | P |
| Antimony | 75 | 125 | 99.6 | | 5.2 | B | 100 | 94 | | P |
| Arsenic | 75 | 125 | 51.0 | | 5.4 | U | 40.0 | 127 | N | P |
| Barium | 75 | 125 | 2150 | | 108 | B | 2000 | 102 | | P |
| Beryllium | 75 | 125 | 51.4 | | 0.6 | B | 50.0 | 102 | | P |
| Cadmium | 75 | 125 | 51.8 | | 1.2 | B | 50.0 | 101 | | P |
| Chromium | 75 | 125 | 209 | | 8.1 | B | 200 | 100 | | P |
| Cobalt | 75 | 125 | 500 | | 6.5 | B | 500 | 99 | | P |
| Copper | 75 | 125 | 273 | | 12.4 | B | 250 | 104 | | P |
| Iron | | | 18800 | | 17500 | | 1000 | 133 | | P |
| Lead | 75 | 125 | 29.8 | | 9.3 | | 20.0 | 102 | | P |
| Manganese | 75 | 125 | 1270 | | 751 | | 500 | 105 | | P |
| Mercury | 75 | 125 | 5.5 | | 0.1 | U | 5.0 | 109 | | AV |
| Nickel | 75 | 125 | 521 | | 17.2 | B | 500 | 101 | | P |
| Selenium | 75 | 125 | 9.3 | | 4.4 | U | 10.0 | 93 | | P |
| Silver | 75 | 125 | 49.3 | | 0.9 | U | 50.0 | 99 | | P |
| Thallium | 75 | 125 | 64.6 | | 6.3 | U | 50.0 | 129 | N | P |
| Vanadium | 75 | 125 | 512 | | 3.4 | B | 500 | 102 | | P |
| Zinc | 75 | 125 | 536 | | 22.4 | | 500 | 103 | | P |
| Cyanide | 75 | 125 | 88.2 | | 0.5 | U | 100 | 88 | | AS |

Comments:



RESUBMITTED

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKGW61MS1010 (DISS)

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: ( soil / water ) Water SAS No.: SDG No.: 204060812

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20406081213 Original Lab Sample ID: 20406081214

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* |
|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 75 | 125 | 2030 | | 55.3 | U | 2000 | 101 | | P |
| Antimony | 75 | 125 | 112 | | 4.5 | B | 100 | 107 | | P |
| Arsenic | 75 | 125 | 48.5 | | 5.4 | U | 40.0 | 121 | | P |
| Barium | 75 | 125 | 2110 | | 45.3 | B | 2000 | 103 | | P |
| Beryllium | 75 | 125 | 51.5 | | 0.2 | B | 50.0 | 103 | | P |
| Cadmium | 75 | 125 | 53.7 | | 0.9 | B | 50.0 | 106 | | P |
| Chromium | 75 | 125 | 198 | | 1.5 | U | 200 | 99 | | P |
| Cobalt | 75 | 125 | 504 | | 1.4 | B | 500 | 100 | | P |
| Copper | 75 | 125 | 257 | | 1.2 | U | 250 | 103 | | P |
| Iron | 75 | 125 | 2400 | | 1370 | | 1000 | 103 | | P |
| Lead | 75 | 125 | 19.7 | | 2.4 | U | 20.0 | 98 | | P |
| Manganese | 75 | 125 | 1000 | | 481 | | 500 | 104 | | P |
| Mercury | 75 | 125 | 5.0 | | 0.1 | U | 5.0 | 100 | | AV |
| Nickel | 75 | 125 | 520 | | 4.7 | B | 500 | 103 | | P |
| Selenium | 75 | 125 | 9.6 | | 4.4 | U | 10.0 | 96 | | P |
| Silver | 75 | 125 | 49.3 | | 0.9 | U | 50.0 | 99 | | P |
| Thallium | 75 | 125 | 58.2 | | 6.3 | U | 50.0 | 116 | | P |
| Vanadium | 75 | 125 | 509 | | 1.1 | U | 500 | 102 | | P |
| Zinc | 75 | 125 | 491 | | 0.7 | U | 500 | 98 | | P |

Comments:



RESUBMITTED

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKGW06R1010PDS

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: ( soil / water ) Water SAS No.: SDG No.: 204060812

% Solids for Sample: Level: ( low / med )

Original Lab Sample ID: 20406081201 Lab Sample ID:: 174613

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* |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | | 127 | | 8.2 | B | 120 | 99 | | P |
| Arsenic | | | 18.2 | | 5.4 | U | 20.0 | 91 | | P |
| Beryllium | | | 10.9 | | 0.7 | B | 10.0 | 103 | | P |
| Cadmium | | | 11.2 | | 1.5 | B | 10.0 | 97 | | P |
| Chromium | | | 30.8 | | 5.3 | B | 20.0 | 128 | | P |
| Cobalt | | | 108 | | 6.6 | B | 100 | 101 | | P |
| Copper | | | 65.6 | | 12.0 | B | 50.0 | 107 | | P |
| Lead | | | 15.4 | | 9.3 | | 6.0 | 102 | | P |
| Manganese | | | 777 | | 758 | | 30.0 | 63 | | P |
| Nickel | | | 99.7 | | 17.2 | B | 80.0 | 103 | | P |
| Selenium | | | 10.3 | | 4.4 | U | 10.0 | 103 | | P |
| Silver | | | 17.0 | | 0.9 | U | 20.0 | 85 | | P |
| Thallium | | | 22.5 | | 6.3 | U | 20.0 | 113 | | P |
| Vanadium | | | 111 | | 3.7 | B | 100 | 107 | | P |
| Zinc | | | 60.3 | | 22.1 | | 40.0 | 95 | | P |

Comments:



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U.S. EPA - CLP
5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKGW06R1010 (DISS)PDS

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: ( soil / water ) Water SAS No.: SDG No.: 204060812

% Solids for Sample: Level: ( low / med )

Original Lab Sample ID: 20406081210 Lab Sample ID:: 174615

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 |
|---|---|---|---|---|---|---|---|---|---|---|
| Antimony | | | 134 | | 7.7 | B | 120 | 105 | | P |
| Arsenic | | | 20.9 | | 5.4 | U | 20.0 | 105 | | P |
| Beryllium | | | 10.5 | | 0.2 | B | 10.0 | 103 | | P |
| Cadmium | | | 11.2 | | 0.5 | B | 10.0 | 107 | | P |
| Chromium | | | 18.1 | | 1.5 | U | 20.0 | 91 | | P |
| Cobalt | | | 104 | | 1.6 | B | 100 | 102 | | P |
| Copper | | | 50.9 | | 1.2 | U | 50.0 | 102 | | P |
| Lead | | | 4.5 | | 2.4 | U | 6.0 | 75 | | P |
| Manganese | | | 518 | | 481 | | 30.0 | 121 | | P |
| Nickel | | | 88.0 | | 3.4 | B | 80.0 | 106 | | P |
| Selenium | | | 4.7 | B | 4.4 | U | 10.0 | 47 | | P |
| Silver | | | 19.2 | | 0.9 | U | 20.0 | 96 | | P |
| Thallium | | | 27.4 | | 6.3 | U | 20.0 | 137 | | P |
| Vanadium | | | 100 | | 1.1 | U | 100 | 100 | | P |
| Zinc | | | 12.0 | B | 0.7 | U | 40.0 | 30 | | P |

Comments:



RESUBMITTED

U.S. EPA - CLP
6
DUPLICATES

EPA SAMPLE NO
SKGW61DUP1010

Lab Name: GCAL

Lab Code: LA024 SDG No.: 204060812

Matrix: ( soil / water ) Water

% Solids for Sample: Lab Sample ID 20406081208

% Solids for Duplicate: Original Lab Sample 20406081205

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

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|---|---|---|---|---|---|---|---|---|
| Aluminum | 0 - 20 | 5090 | | 23700 | | 129 | * | P |
| Antimony | - | 5.2 | B | 12.1 | B | 80 | | P |
| Arsenic | 0 - 10 | 5.4 | U | 12.7 | | 12.7 | | P |
| Barium | 0 - 200 | 108 | B | 743 | | 635.27 | * | P |
| Beryllium | - | 0.6 | B | 2.5 | B | 123 | | P |
| Cadmium | - | 1.2 | B | 2.9 | B | 83 | | P |
| Calcium | 0 - 20 | 217000 | | 522000 | | 83 | * | P |
| Chromium | 0 - 10 | 8.1 | B | 39.5 | | 31.448 | * | P |
| Cobalt | - | 6.5 | B | 46.6 | B | 151 | | P |
| Copper | 0 - 25 | 12.4 | B | 80.5 | | 68.127 | * | P |
| Iron | 0 - 20 | 17500 | | 61800 | | 112 | * | P |
| Lead | 0 - 20 | 9.3 | | 66.9 | | 151 | * | P |
| Magnesium | 0 - 20 | 45200 | | 163000 | | 113 | * | P |
| Manganese | 0 - 20 | 751 | | 6980 | | 161 | * | P |
| Mercury | - | 0.1 | U | 0.1 | U | 0 | | AV |
| Nickel | 0 - 40 | 17.2 | B | 64.7 | | 47.508 | * | P |
| Potassium | 0 - 5000 | 9300 | | 7820 | | 1481.0 | | P |
| Selenium | - | 4.4 | U | 4.4 | U | 0 | | P |
| Silver | - | 0.9 | U | 0.9 | U | 0 | | P |
| Sodium | 0 - 20 | 30300 | | 24000 | | 23 | * | P |
| Thallium | - | 6.3 | U | 6.3 | U | 0 | | P |
| Vanadium | - | 3.4 | B | 47.1 | B | 173 | | P |
| Zinc | 0 - 20 | 22.4 | | 181 | | 156 | * | P |
| Cyanide | - | 0.5 | U | 0.5 | U | 0 | | AS |

8/30/05
MN

U.S. EPA - CLP
6
DUPLICATES

EPA SAMPLE NO
SKGW61DUP1010 (DISS)

Lab Name: GCAL

Lab Code: LA024 SDG No.: 204060812

Matrix: ( soil / water ) Water

% Solids for Sample: Lab Sample ID 20406081215

% Solids for Duplicate: Original Lab Sample 20406081213

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

| Analyte | Control Limit | Sample (S) | C | Duplicate (D) | C | RPD | Q | M |
|---|---|---|---|---|---|---|---|---|
| Aluminum | - | 55.3 | U | 55.3 | U | 0 | | P |
| Antimony | - | 4.5 | B | 5.5 | B | 20 | | P |
| Arsenic | - | 5.4 | U | 5.4 | U | 0 | | P |
| Barium | 0 - 200 | 45.3 | B | 271 | | 225.69 | * | P |
| Beryllium | - | 0.2 | B | 0.2 | B | 0 | | P |
| Cadmium | - | 0.9 | B | 0.9 | B | 0 | | P |
| Calcium | 0 - 20 | 178000 | | 184000 | | 3 | | P |
| Chromium | - | 1.5 | U | 1.5 | U | 0 | | P |
| Cobalt | - | 1.4 | B | 0.6 | U | 200 | | P |
| Copper | - | 1.2 | U | 1.2 | U | 0 | | P |
| Iron | 0 - 20 | 1370 | | 36.6 | B | 190 | * | P |
| Lead | - | 2.4 | U | 2.4 | U | 0 | | P |
| Magnesium | 0 - 20 | 34100 | | 31000 | | 10 | | P |
| Manganese | 0 - 20 | 481 | | 241 | | 66 | * | P |
| Mercury | - | 0.1 | U | 0.1 | U | 0 | | AV |
| Nickel | - | 4.7 | B | 2.6 | B | 58 | | P |
| Potassium | 0 - 5000 | 7160 | | 2540 | B | 4619.2 | | P |
| Selenium | - | 4.4 | U | 4.4 | U | 0 | | P |
| Silver | - | 0.9 | U | 0.9 | U | 0 | | P |
| Sodium | 0 - 20 | 28600 | | 21200 | | 30 | * | P |
| Thallium | - | 6.3 | U | 6.3 | U | 0 | | P |
| Vanadium | - | 1.1 | U | 1.1 | U | 0 | | P |
| Zinc | - | 0.7 | U | 0.7 | U | 0 | | P |



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7

LABORATORY CONTROL SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Solid LCS Source: Lab Sample ID: 172851

Aqueous LCS Source: 310006 HIGH PURITY~323003 HIGH

| Analyte | Aqueous (ug/L) True | Found | % R | Solid (mg/kg) True | Found | C | % R |
|---|---|---|---|---|---|---|---|
| Aluminum | 2000 | 2070 | 103 | | | | |
| Antimony | 500 | 498 | 100 | | | | |
| Arsenic | 2000 | 2060 | 103 | | | | |
| Barium | 2000 | 2010 | 101 | | | | |
| Beryllium | 50.0 | 50.5 | 101 | | | | |
| Cadmium | 50.0 | 50.6 | 101 | | | | |
| Calcium | 10000 | 10100 | 101 | | | | |
| Chromium | 200 | 194 | 97 | | | | |
| Cobalt | 500 | 488 | 98 | | | | |
| Copper | 250 | 249 | 100 | | | | |
| Iron | 1000 | 1050 | 105 | | | | |
| Lead | 500 | 514 | 103 | | | | |
| Magnesium | 10000 | 10500 | 105 | | | | |
| Manganese | 500 | 511 | 102 | | | | |
| Nickel | 500 | 507 | 101 | | | | |
| Potassium | 10000 | 10100 | 101 | | | | |
| Selenium | 2000 | 2070 | 103 | | | | |
| Silver | 50.0 | 51.2 | 102 | | | | |
| Sodium | 10000 | 10100 | 101 | | | | |
| Thallium | 2000 | 2000 | 100 | | | | |
| Vanadium | 500 | 502 | 100 | | | | |
| Zinc | 500 | 483 | 97 | | | | |



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7

LABORATORY CONTROL SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Solid LCS Source: Lab Sample ID: 172855

Aqueous LCS Source: 310006 HIGH PURITY~323003 HIGH

| Analyte | Aqueous (ug/L) True | Found | % R | Solid (mg/kg) True | Found | C | % R |
|---|---|---|---|---|---|---|---|
| Aluminum | 2000 | 2050 | 103 | | | | |
| Antimony | 500 | 519 | 104 | | | | |
| Arsenic | 2000 | 2150 | 107 | | | | |
| Barium | 2000 | 2070 | 103 | | | | |
| Beryllium | 50.0 | 51.9 | 104 | | | | |
| Cadmium | 50.0 | 54.3 | 109 | | | | |
| Calcium | 10000 | 10300 | 103 | | | | |
| Chromium | 200 | 197 | 98 | | | | |
| Cobalt | 500 | 506 | 101 | | | | |
| Copper | 250 | 253 | 101 | | | | |
| Iron | 1000 | 1050 | 105 | | | | |
| Lead | 500 | 531 | 106 | | | | |
| Magnesium | 10000 | 11200 | 112 | | | | |
| Manganese | 500 | 523 | 105 | | | | |
| Nickel | 500 | 530 | 106 | | | | |
| Potassium | 10000 | 9930 | 99 | | | | |
| Selenium | 2000 | 2160 | 108 | | | | |
| Silver | 50.0 | 50.5 | 101 | | | | |
| Sodium | 10000 | 9700 | 97 | | | | |
| Thallium | 2000 | 2150 | 107 | | | | |
| Vanadium | 500 | 511 | 102 | | | | |
| Zinc | 500 | 497 | 99 | | | | |



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7

LABORATORY CONTROL SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Solid LCS Source: Lab Sample ID: 172870

Aqueous LCS Source: 8-4-1 LABCHEM

| Analyte | Aqueous (ug/L) True | Found | % R | Solid (mg/kg) True | Found | C | % R |
|---|---|---|---|---|---|---|---|
| Cyanide | 100 | 89.7 | 90 | | | | |



000467

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SKGW06R1010SD

Lab Name: GCAL

Lab Code: LA024 Case No. SDG No.: 204060812

Matrix ( soil / water ) Water Lab Sample ID 174612

Original Lab Sample ID 20406081201

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Aluminum | 4950 | | 5360 | | 8.3 | | P |
| Antimony | 8.2 | B | 19.5 | U | 137.8 | | P |
| Arsenic | 5.4 | U | 27.0 | U | | | P |
| Barium | 103 | B | 105 | B | 1.9 | | P |
| Beryllium | 0.7 | B | 1.0 | B | 42.9 | | P |
| Cadmium | 1.5 | B | 3.6 | B | 140.0 | | P |
| Calcium | 224000 | | 223000 | | 0.4 | | P |
| Chromium | 5.3 | B | 7.5 | U | 41.5 | | P |
| Cobalt | 6.6 | B | 8.4 | B | 27.3 | | P |
| Copper | 12.0 | B | 10.0 | B | 16.7 | | P |
| Iron | 17300 | | 17400 | | 0.6 | | P |
| Lead | 9.3 | | 12.0 | U | 29.0 | | P |
| Magnesium | 46800 | | 47600 | | 1.7 | | P |
| Manganese | 758 | | 759 | | 0.1 | | P |
| Nickel | 17.2 | B | 18.6 | B | 8.1 | | P |
| Potassium | 8320 | | 7440 | B | 10.6 | E | P |
| Selenium | 4.4 | U | 22.0 | U | | | P |
| Silver | 0.9 | U | 4.5 | U | | | P |
| Sodium | 28600 | | 27400 | | 4.2 | | P |
| Thallium | 6.3 | U | 31.5 | U | | | P |
| Vanadium | 3.7 | B | 6.1 | B | 64.9 | | P |
| Zinc | 22.1 | | 3.5 | U | 84.2 | | P |



000468

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SKGW06R1010 (DISS)SD

Lab Name: GCAL

Lab Code: LA024 Case No. SDG No.: 204060812

Matrix: ( soil / water ) Water Lab Sample ID 174614

Original Lab Sample ID 20406081210

Concentration Units: ug/L

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M |
|---|---|---|---|---|---|---|---|
| Aluminum | 85.2 | B | 295 | B | 246.2 | | P |
| Antimony | 7.7 | B | 21.1 | B | 174.0 | | P |
| Arsenic | 5.4 | U | 27.0 | U | | | P |
| Barium | 45.4 | B | 43.5 | B | 4.2 | | P |
| Beryllium | 0.2 | B | 1.0 | U | | | P |
| Cadmium | 0.5 | B | 2.3 | B | 360.0 | | P |
| Calcium | 176000 | | 172000 | | 2.3 | | P |
| Chromium | 1.5 | U | 7.5 | U | | | P |
| Cobalt | 1.6 | B | 3.0 | U | 87.5 | | P |
| Copper | 1.2 | U | 6.0 | U | | | P |
| Iron | 1360 | | 1370 | | 0.7 | | P |
| Lead | 2.4 | U | 12.0 | U | | | P |
| Magnesium | 33100 | | 33900 | | 2.4 | | P |
| Manganese | 481 | | 466 | | 3.1 | | P |
| Nickel | 3.4 | B | 7.6 | B | 123.5 | | P |
| Potassium | 7180 | | 6340 | B | 11.7 | E | P |
| Selenium | 4.4 | U | 22.0 | U | | | P |
| Silver | 0.9 | U | 4.5 | U | | | P |
| Sodium | 29000 | | 26800 | | 7.6 | | P |
| Thallium | 6.3 | U | 31.5 | U | | | P |
| Vanadium | 1.1 | U | 5.5 | U | | | P |
| Zinc | 0.7 | U | 3.5 | U | | | P |

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10

INSTRUMENT DETECTION LIMITS

Lab Name: GCAL

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Instrument ID: ICP5 Study Date: 05/06/04

| Analyte | Wavelength (nm) | Background | CRDL (ug/L) | IDL (ug/L) | M |
|---|---|---|---|---|---|
| Aluminum | 308.210 | | 200 | 55.3 | P |
| Antimony | 206.830 | | 60 | 3.9 | P |
| Arsenic | 193.700 | | 10 | 5.4 | P |
| Barium | 233.520 | | 200 | .3 | P |
| Beryllium | 313.100 | | 5 | .2 | P |
| Cadmium | 214.430 | | 5 | .3 | P |
| Calcium | 315.880 | | 5000 | 7.3 | P |
| Chromium | 267.710 | | 10 | 1.5 | P |
| Cobalt | 228.610 | | 50 | .6 | P |
| Copper | 324.750 | | 25 | 1.2 | P |
| Iron | 259.940 | | 100 | 9.1 | P |
| Lead | 220.350 | | 3 | 2.4 | P |
| Magnesium | 279.080 | | 5000 | 66.9 | P |
| Manganese | 257.610 | | 15 | .6 | P |
| Nickel | 231.600 | | 40 | 1.1 | P |
| Potassium | 766.480 | | 5000 | 97.8 | P |
| Selenium | 196.030 | | 5 | 4.4 | P |
| Silver | 328.060 | | 10 | .9 | P |
| Sodium | 589.580 | | 5000 | 339.7 | P |
| Thallium | 190.800 | | 10 | 6.3 | P |
| Vanadium | 290.880 | | 50 | 1.1 | P |
| Zinc | 213.860 | | 20 | .7 | P |

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14

ANALYSIS RUN LOG

000481 RESUBMITTED

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Instrument ID Number: ICP5 Method Type: P

Start Date: 06/21/04 End Date: 06/21/04

| | | | | Analyte Symbols | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EPA Sample No. | D/F | Time | % R | Al | Sb | As | Ba | Be | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Hg | Ni | K | Se | Ag | Na | Tl | V | Zn | Cn |
| ICV | 1 | 0859 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| ICB | 1 | 0906 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CRDL | 1 | 0913 | | | X | X | | X | X | | X | X | X | | X | | X | | X | | X | X | | X | X | X | |
| ICSA | 1 | 0920 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| ICSAB | 1 | 0926 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCV | 1 | 0932 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCB | 1 | 0938 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 0945 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 0952 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 0959 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 5 | 1006 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1013 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1020 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1027 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1034 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1041 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1047 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CCV | 1 | 1053 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCB | 1 | 1059 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1106 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1120 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1127 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1133 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 5 | 1140 | | | | | | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1147 | | | | | | | | | | | | | | | | | | | | | | | | | |
| CRDL | 1 | 1154 | | | X | X | | X | X | | X | X | X | | X | | X | | X | | X | X | | X | X | X | |
| ICSA | 1 | 1201 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |

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14

ANALYSIS RUN LOG

000482 RESUBMITTED

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Instrument ID Number: ICP5 Method Type: P

Start Date: 06/21/04 End Date: 06/21/04

| | | | | | Analyte Symbols | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | EPA Sample No. | D/F | Time | % R | Al | Sb | As | Ba | Be | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Hg | Ni | K | Se | Ag | Na | Tl | V | Zn | Cn |
| | ICSAB | 1 | 1207 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | CCV | 1 | 1220 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| 3 | CCB | 1 | 1234 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1241 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1248 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1255 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1302 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1308 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | ZZZZZZZZZZZZZZZZZZZZZZ | 1 | 1314 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MB172850 | 1 | 1328 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | SKGW06R1010 | 1 | 1335 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | SKGW61DUP1010 | 1 | 1341 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | CCV | 1 | 1347 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| 4 | CCB | 1 | 1353 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | SKGW06R1010SD | 5 | 1408 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | SKGW611010 | 1 | 1414 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | SKGW63FD1010 | 1 | 1420 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | SKGW07R1010 | 1 | 1426 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | SKGW631010 | 1 | 1432 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | LCS172851 | 1 | 1438 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | SKGW61MS1010 | 1 | 1444 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| 3 | CRDL | 1 | 1457 | | | X | X | | X | X | | X | X | X | | X | | X | | X | | X | X | | X | X | X | |
| | ICSA | 1 | 1504 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | ICSAB | 1 | 1510 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | CCV | 1 | 1516 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| 5 | CCB | 1 | 1618 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| | SKGW06R1010PDS | 1 | 1626 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |

U.S. EPA - CLP

14

ANALYSIS RUN LOG

000483 RESUBMITTED

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204060812

Instrument ID Number: ICP5 Method Type: P

Start Date: 06/21/04 End Date: 06/21/04

| | | | | Analyte Symbols | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EPA Sample No. | D/F | Time | % R | Al | Sb | As | Ba | Be | Cd | Ca | Cr | Co | Cu | Fe | Pb | Mg | Mn | Hg | Ni | K | Se | Ag | Na | Tl | V | Zn | Cn |
| MB172854 | 1 | 1639 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGW06R1010 (DISS) | 1 | 1646 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGW61DUP1010 (DISS) | 1 | 1653 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGW06R1010 (DISS)SD | 5 | 1659 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGW611010 (DISS) | 1 | 1706 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGW07R1010 (DISS) | 1 | 1712 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGW631010 (DISS) | 1 | 1719 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGW63FD1010 (DISS) | 1 | 1725 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCV | 1 | 1732 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCB | 1 | 1738 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| LCS172855 | 1 | 1745 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGW61MS1010 (DISS) | 1 | 1751 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| SKGW06R1010 (DISS)PDS | 1 | 1757 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CRDL | 1 | 1809 | | | X | X | | X | X | | X | X | X | | X | | X | | X | | X | X | | X | X | X | |
| ICSA | 1 | 1816 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| ICSAB | 1 | 1822 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCV | 1 | 1828 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |
| CCB | 1 | 1834 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | X | X | X | X | X | X | X | X | |