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REMEDIAL ACTION QUARTERLY MONITORING REPORT

THIRD QUARTER – 2004 (5 of 120)

SKINNER LANDFILL SITE BUTLER COUNTY WEST CHESTER, OHIO

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LIST OF ACRONYMS

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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

1.0 INTRODUCTION

1.1 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 third quarter of 2004, which is the 5th of 120 sampling events to be conducted during the 30-year monitoring period.

1.2 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.

1.3 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

3.1 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 0.10 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.

3.2 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. Piezometer P-9 and other piezometers were not measured due to wasp nests being present inside the protective steel standpipe. To minimize wasp nest building within the protective standpipes, sand was added to the annulus between the well casing and protective standpipe eliminating the open area where the nests were formerly built.

A depth to water measurement could not be recorded from piezometer P-10 due to an obstruction or possible pinching of the well casing. The depth to water measurement in Piezometer P-11 was recorded with a smaller diameter water level indicator, as opposed to a groundwater interface probe, due to a pinching of the well casing that reduced the diameter of the piezometer.

3.3 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.

Only two of the sixteen TAL parameters, with a revised modified trigger level, were detected above the CRQL. Detections of iron (present in two groundwater monitoring wells) and a detection of barium (present in one groundwater monitoring well) were detected above the CRQL, but below the revised modified trigger levels.

3.4 SURFACE WATER ANALYTICAL RESULTS

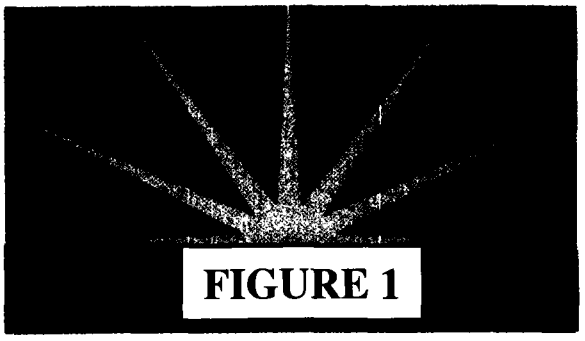
Surface water analysis consisted of samples collected surface water directly from the East Fork of Mill Creek. During the surface water sampling event, the surface water run-off sampling locations were dry. On September 8, 2005, attempts were made to sample the run-off locations immediately following a rainfall event, however, the sample locations remained dry.

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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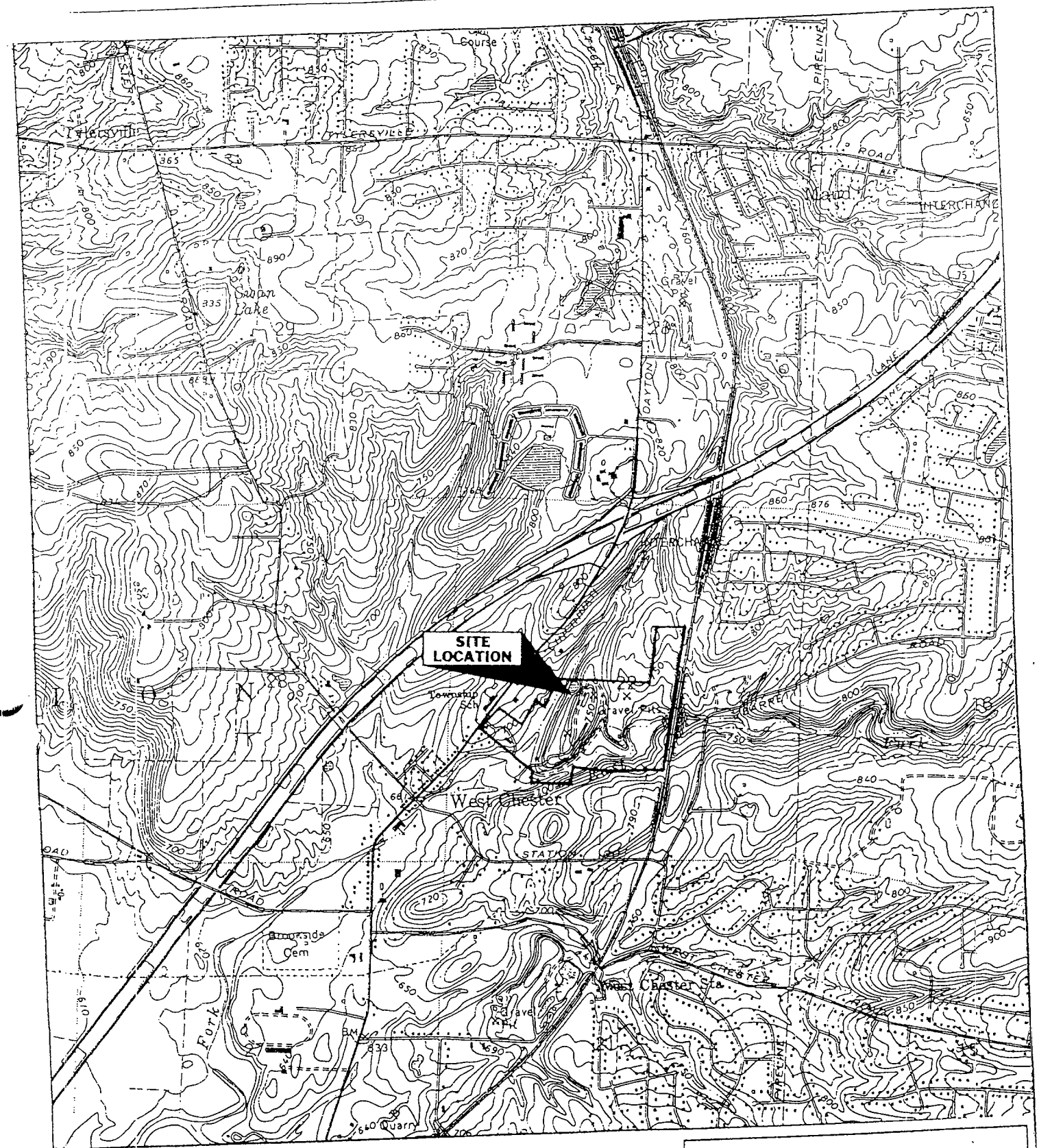

Base taken from USGS Glendale, Ohio
7.5' Topographic Quadrangle, photorevised 1987

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

Well Type	Location	Well Use	Ground Surface Elevation (MSL-feet)	Top of Casing Elevation (MSL-feet)	September 2004 Depth to Water (feet from top of casing)	September 2004 Groundwater Elevation (MSL-feet)
Piezometers	P-1	G	685.42	687.65	NM	NM
	P-2	G	688.54	690.42	12.43	677.99
	P-3R	G	691.83	693.69	25.23	668.46
	P-4	G	700.32	702.63	8.46	694.17
	P-5	G	708.20	710.65	NM	NM
	P-6	G	707.45	710.59	13.36	697.23
	P-7	G	719.08	721.83	Dry	Dry
	P-8	G	747.70	749.91	30.38	719.53
	P-9	G	760.68	763.90	NM	NM
	P-10	G	761.34	764.16	--	--
	P-11	G	760.34	762.76	29.10	733.66
	P-12	G	743.50	746.17	41.11	705.06
Groundwater Monitoring Wells	GW-06R	S	683.89	685.91	11.28	674.63
	GW-07R	S	683.46	683.06	11.37	671.69
	GW-24	G	693.32	695.21	19.21	676.00
	GW-26	G	696.61	698.28	NM	NM
	GW-30	G	675.63	677.62	10.08	667.54
	GW-58	S	684.03	686.53	NM	NM
	GW-59	S	684.35	687.38	8.04	679.34
	GW-60	S	689.12	692.38	14.75	677.63
	GW-61	S	687.38	690.86	13.85	677.01
	GW-62A	S	690.19	692.38	29.38	663.00
	GW-62B	S	690.57	693.13	12.43	680.70
	GW-63	S	698.87	702.50	12.58	689.92
	GW-64	S	700.45	703.88	13.14	690.74
	GW-65	S	703.83	706.88	16.83	690.05
	GW-66	G	686.82	689.41	8.20	681.21
Gas Probes	GP-6	G	772.18	774.65	16.58	758.07
	GP-7	G	749.83	752.65	Dry	Dry

Notes:
MSL - Mean Sea Level
G - Gauging
S - Sampling and Gauging
NM - Not Measured (wasp nest in standpipe)
-- - No Gauging Data Available (well is constricted)

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 (November 2003) (feet)	Water Elevation (March 2004) (feet)	Water Elevation (May 2004) (feet)	Water Elevation (September 2004) (feet)
P-9	25	737	**745.00**	-	743.15	NM	NM
P-10	30	734	**744.50**	739.16	738.06	NM	-
P-11	17	745	**744.30**	734.83	735.36	736.05	733.66
P-12	35	707	**713.50**	705.39	705.52	705.67	705.06

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
Third Quarter 2004

Sample ID	VOCs	SVOCs	Dissolved Metals**	Pesticides/PCBs
GW-06R	-	-	*barium*	-
GW-07R	-	-	-	-
GW-58	*	*	*	*
GW-59	-	-	-	-
GW-60	*	*	*	*
GW-61	-	-	*iron*	-
GW-62A	-	-	-	-
GW-62B	*	*	*	*
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.

TABLE 4

SURFACE WATER RESULTS SUMMARY

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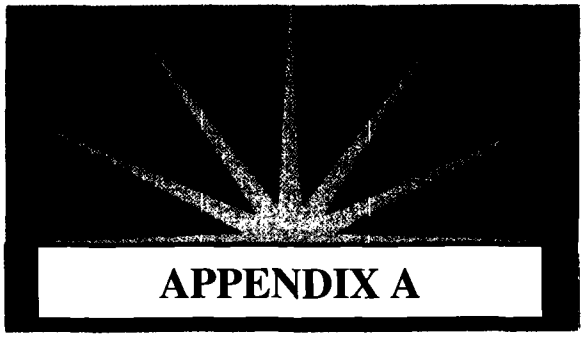
Table 4

Surface Water Summary

Skinner Landfill
West Chester, Ohio
Third 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

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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	February-03	May-03	August-03	November-03	March-04	May-04	September-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	25.8	25.8	85.2	55.3		200
Antimony	3.0	7.0	3.7	3.7	3.7	7.7	10.6	60	60
Arsenic	3.6	2.9	2.9	2.9	2.9	5.4	5.4	20	10
Barium	256	224	309 J	294	266	45.4 J	329	1,000	200
Beryllium	0.1	0.1	0.1	0.1	0.1	0.2	0.2	5	5
Cadmium	0.2 UJ	0.2	0.2	0.2	0.2	0.5	0.3	5	5
Calcium	—	—	—	189,000	189,000	176,000	205,000		5,000
Chromium	2.1	2.6	2.6	0.8	1.2	1.5 UJ	3.7	11	10
Cobalt	—	—	—	0.4	0.4	1.6	0.6		50
Copper	1.0 UJ	1.9	1.3	1.7	1.2	1.2	1.2	25	25
Iron	79.2	14.1	14.1	14.1	22.0	1,360 J	9.1	7,000	100
Lead	1.3 R	1.5 UJ	1.5	1.5	1.5	2.4 UJ	2.4	4.2	3
Magnesium	—	—	—	30,500	30,000	33,100	32,100		5,000
Manganese	—	—	—	77.0	69.5 J	481 J	124		15
Mercury	0.1 UJ	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	1.8	1.8	1.7	1.8	1.7	3.4 J	2.2	96	40
Potassium	—	—	—	2,400	2,060	7,180 J	3,340 J		5,000
Selenium	4.0 R	4.4	4.4	4.4 R	4.4 UJ	4.4 UJ	4.4 UJ	8.5	5
Silver	0.5	0.4	0.4	0.4	0.4	0.9	2.5	10	10
Sodium	—	—	—	21,500	20,700	29,000 J	20,900 J		5,000
Thallium	3.6	2.6 UJ	2.6	2.6 UJ	2.6	6.3	6.3	40	10
Vanadium	—	—	—	0.8	1.6	1.1	3.5		50
Zinc	0.8 UJ	1.5	13.5	0.6 UJ	0.6 UJ	0.7 UJ	0.7	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	17,000	9,900	4,950 J	37,200 J		
Antimony	3.0	6.9	3.7	3.7	5.5	8.2	3.9		
Arsenic	38.8	2.9	13.2	20.5	12.4	5.4	5.4 R		
Barium	852	336	493	568	440	103 J	821		
Beryllium	2.5	0.1	0.3	1.2	1.1	0.7	2.1		
Cadmium	0.2 UJ	0.2	0.2	0.2	1.0	1.5	0.3		
Calcium	—	—	—	378,000	309,000	224,000 J	576,000		
Chromium	64.2	12.3	21.4 J	27.0	16.9	5.3 J	58.5		
Cobalt	—	—	—	24.1	12.3	6.6	46.5		
Copper	108 J	16.7	32.1	52.1	39.3	12.0 J	97.2 J		
Cyanide	4.0	3.0	3.0	3.0	1.0	3.3	0.7	10	10
Iron	94,100	13,100	27,200 J	45,400	25,300	17,300 J	90,600		
Lead	100 J	9.6 J	26.0 J	46.0	23.9	9.3 J	88.1 J		
Magnesium	—	—	—	115,000	83,600	46,800 J	184,000		
Manganese	—	—	—	2,940	988	758	5,750		
Mercury	0.2 J	0.1	0.1	0.1	0.1	0.1 J	0.1		
Nickel	88.2	14.1	26.0	41.2	23.4	17.2 J	80.5		
Potassium	—	—	—	5,050	3,970	8,320	9,100		
Selenium	4.0 R	4.4	4.4 R	4.4 UJ	4.4 UJ	4.4	4.4 R		
Silver	0.5	0.4	0.4	0.4	0.4	0.9	0.9		
Sodium	—	—	—	22,100	21,900	28,600 J	24,300		
Thallium	4.9 J	2.6 UJ	2.6 UJ	2.6	2.6	6.3	6.3		
Vanadium	—	—	—	41.5	22.2	3.7	84.3		
Zinc	279 J	61.5	87.8 J	147 J	72.9	22.1 UJ	283 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
1,1-Dichloroethane							0.34 J		10
1,2-Dichloropropane							0.23 J	5	10
Benzene							0.15 J	5	10
Ethylbenzene							0.14 J	62	10
Toluene							0.45 J	1,000	10
Tetrachloroethene							0.17 J	5	10
Xylene (total)							0.33 J	10,000	10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Bis (2-ethlyhexyl) phthalate	906	10.0 U	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.

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	February-03	May-03	August-03	November-03	March-04	May-04	September-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	25.8	25.8	62.0	55.3		200
Antimony	3.3	3.7	3.7	3.7	3.7	3.9	3.9	60	60
Arsenic	3.6	2.9	2.9	4.5	2.9	5.4	5.4	20	10
Barium	99.9	98.8	152 J	131	113	119 J	118	1,000	200
Beryllium	0.1	0.1	0.1	0.1	0.1	0.2	0.2	5	5
Cadmium	0.2 UJ	0.2	0.2	0.2	0.2	0.9	0.3	5	5
Calcium	—	—	—	229,000	185,000	184,000	205,000		5,000
Chromium	2.7	2.0	2.9	0.8	1.1	1.5 UJ	3.3	11	10
Cobalt	—	—	—	1.4	0.7	0.9	0.6		50
Copper	1.0 UJ	1.2	1.2	1.2	1.2	1.4	1.2	25	25
Iron	241	146	301 J	3,580	32.9	41.3 J	9.1	7,000	100
Lead	1.3 R	1.5 J	1.5	1.5	1.5	2.4 UJ	2.4	4.2	3
Magnesium	—	—	—	33,000	26,300	28,100	29,400		5,000
Manganese	—	—	—	849	914 J	1,090 J	418		15
Mercury	0.1 UJ	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	3.4	3.2	2.4	1.6	2.2	3.5	1.1	96	40
Potassium	—	—	—	3,260	2,350	2,580 J	3,010 J		5,000
Selenium	4.0 R	4.4	4.4	4.4 R	4.4 UJ	4.4 UJ	4.4 UJ	8.5	5
Silver	0.5	0.4	0.4	0.4	0.4	0.9	0.9	10	10
Sodium	—	—	—	42,200	25,200	25,500 J	32,600 J		5,000
Thallium	3.6	2.6 J	2.6	2.6 UJ	2.6	8.5	6.3	40	10
Vanadium	—	—	—	0.8	0.8	1.1	1.1		50
Zinc	0.8 UJ	10.2	10.9	30.7 J	0.6 UJ	0.7 UJ	0.7	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	3,130 J	7,810	10,300 J	8,270 J		
Antimony	3.0	3.7	3.7	3.7	6.6 J	4.5	5.1		
Arsenic	3.6	2.9	14.6	5.3	6.9	5.4	5.4 R		
Barium	260.0	132	699	204	484	570 J	469		
Beryllium	0.1	0.1	0.3	0.1	0.8	0.8	0.2		
Cadmium	0.2 UJ	0.2	0.2	0.2	0.9	1.2	0.3		
Calcium	—	—	—	246,000	281,000	260,000 J	250,000		
Chromium	9.1	3.7	21.5 J	4.9	12.9	17.4 J	13.4		
Cobalt	—	—	—	4.3	7.0	9.1	6.2		
Copper	8.2 J	4.2	30.4	10.0	35.5	31.1 J	15.3 J		
Cyanide	4.0	3.0	3.0	3.0	1.5	0.5	0.7	10.0	10.0
Iron	10,200	2,380	29,000 J	9,890	20,200	26,900 J	20,200		
Lead	1.3 R	1.5 UJ	16.8 J	5.2	9.2	15.7 J	11.4 J		
Magnesium	—	—	—	41,600	54,000	54,300 J	45,900		
Manganese	—	—	—	969	1,590	2,020 J	1,400		
Mercury	0.1 UJ	0.1	0.1	0.1	0.1	0.1	0.1		
Nickel	10.4	4.7	25.3	10.5	17.8	24.0 J	12.7		
Potassium	—	—	—	3,780	4,510	5,060 J	4,770		
Selenium	4.0 R	4.4	4.4 R	4.4 UJ	4.4 UJ	4.4	4.4 R		
Silver	0.5	0.4	0.4	0.4	0.4	0.9	0.9		
Sodium	—	—	—	41,200	31,200	27,100 J	32,400		
Thallium	3.6 UJ	2.6 UJ	2.6 UJ	2.6	2.6	6.3	7.0		
Vanadium	—	—	—	6.5	15.3 J	15.2	9.2		
Zinc	27.6 J	50.7	90.3 J	22.7 J	51.2	35.5 UJ	46.9 J		
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	February-03	May-03	August-03	November-03	March-04	May-04	September-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]						Not Sampled*	Not Sampled*		
Aluminum	—	—	—	25.8	25.8	—	—		200
Antimony	3.0	4.9	3.7	3.7	3.7	—	—	60	60
Arsenic	3.6	2.9	3.1	6.0	3.1	—	—	20	10
Barium	163	158	162 J	228	156	—	—	1,000	200
Beryllium	0.1	0.1	0.1	0.1	0.1	—	—	5	5
Cadmium	0.2 UJ	0.2	0.2	0.2	0.2	—	—	5	5
Calcium	—	—	—	96,400	109,000	—	—		5,000
Chromium	2.7	2.8	2.5	0.8	1.5	—	—	11	10
Cobalt	—	—	—	0.4	1.3	—	—		50
Copper	1.0 UJ	1.2	1.2	1.2	2.9	—	—	25	25
Iron	249	1,140	488 J	2,890	209	—	—	7,000	100
Lead	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 UJ	0.1	0.1	0.1	0.1	—	—	0.2	0.2
Nickel	2.2	2.4	1.2	1.3	2.6	—	—	96	40
Potassium	—	—	—	5,210	4,550	—	—		5,000
Selenium	4.0 R	4.4	4.4	4.4 R	4.4 UJ	—	—	8.5	5
Silver	0.5	0.4	0.4	0.4	0.4	—	—	10	10
Sodium	—	—	—	34,400	32,400	—	—		5,000
Thallium	3.6	2.6 UJ	2.6	2.6 UJ	2.6	—	—	40	10
Vanadium	—	—	—	0.8	1.6	—	—		50
Zinc	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	3.0	5.2	3.7	3.7	5.7	—	—		
Arsenic	17.1	3.2	20.6	32.9	11.5 J	—	—		
Barium	540	367.0	391	822	284	—	—		
Beryllium	1.3	0.3	0.7	2.9	1	—	—		
Cadmium	0.2 UJ	0.2	0.2	1.8	1.5	—	—		
Calcium	—	—	—	745,000	214,000	—	—		
Chromium	63.1	14.9	42.6 J	112	28.2	—	—		
Cobalt	—	—	—	57.2	13.4	—	—		
Copper	42.5 J	27.8	43.2	138	45.7	—	—		
Cyanide	4.0	3.0	3.0	3.0	0.5	—	—	10	10
Iron	61,900	17,000	40,800 J	129,000	32,700	—	—		
Lead	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 UJ	0.1	0.1	0.1	0.1	—	—		
Nickel	66.5	20.1	50.6	124	32.1	—	—		
Potassium	—	—	—	11,800	7,640	—	—		
Selenium	4.0 R	4.4	4.4 R	4.4 UJ	4.4 UJ	—	—		
Silver	0.5	0.4	0.4	1.6	0.4	—	—		
Sodium	—	—	—	36,900	33,500	—	—		
Thallium	3.6 UJ	2.6 UJ	2.6 UJ	2.6	4.1 J	—	—		
Vanadium	—	—	—	74.0	23.2	—	—		
Zinc	164 J	78.7	137 J	367 J	81.0 J	—	—		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	—	—		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	—	—		
Pesticides / PCBs	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
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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	February-03	May-03	August-03	November-03	March-04	May-04	September-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	25.8	27.2	55.3	55.3		200
Antimony	3.0	8.0	7.2	6.5	3.7	3.9	3.9	60	60
Arsenic	3.6	2.9	2.9	2.9	2.9	5.4	5.4	20	10
Barium	35.7	37.2	38.1 J	40.7	21.8	23.2	28.6	1,000	200
Beryllium	0.1	0.1	0.1	0.1	0.1	0.2	0.2	5	5
Cadmium	0.2 UJ	0.2	0.2	0.2	0.2	0.3	0.3	5	5
Calcium	—	—	—	261,000	239,000	209,000	238,000		5,000
Chromium	4.9	4.4	3.3	0.8	1.8	1.5	4.4	11	10
Cobalt	—	—	—	0.4	0.4	0.6	0.6		50
Copper	1.0 UJ	3.5	3.0	4.0	2.1	1.2	1.2	25	25
Iron	591	14.1	14.1	14.1	28.8	31.0	9.1	7,000	100
Lead	1.3 R	1.5 UJ	1.5	1.5	1.5	2.4	2.4	4.2	3
Magnesium	—	—	—	59,500	49,000	43,900	53,500		5,000
Manganese	—	—	—	27.3	4.5 J	0.6	13.6		15
Mercury	0.1 UJ	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	3.5	3.5	3	2.3	2.6	2.2	1.1	96	40
Potassium	—	—	—	29,800	32,800	29,200	25,200		5,000
Selenium	4.0 R	4.4	4.4	4.4 R	4.4 UJ	4.4 R	4.4 UJ	8.5	5
Silver	0.5	0.4	0.4	0.4	0.4	0.9	1.2	10	10
Sodium	—	—	—	186,000	166,000	145,000	179,000		5,000
Thallium	3.6 UJ	2.6 UJ	2.6	2.6 UJ	3.1 J	6.3 UJ	6.3	40	10
Vanadium	—	—	—	0.8	1.4	1.1	1.1		50
Zinc	0.8 J	1.2	18.4	0.6 UJ	3.1 J	0.7	0.7	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	3,710	816	754	4,300 J		
Antimony	3.0	3.7	3.7	3.7	4.7	3.9	4.9		
Arsenic	3.6	2.9	3.6	4.3	2.9	5.4	5.4 R		
Barium	202	55.2	62.1	213	55.0	58.4	214		
Beryllium	0.1	0.1	0.1	0.1	0.2	0.2	0.2		
Cadmium	0.2 UJ	0.2	0.2	0.2	0.2	0.3	0.3		
Calcium	—	—	—	281,000	243,000	234,000	276,000		
Chromium	18.8	5.4	8.3 J	19.1	5.5	3.7	22.8		
Cobalt	—	—	—	7.4	2.1	2.5	8.4		
Copper	1.0 UJ	3.6	6.0	11.9	10.1	4.1	6.5 J		
Cyanide	4.0	3.0	3.0	3.0	1.0	0.6	0.5	10	10
Iron	9,810	1,390	2,240 J	12,900	3,020	2,710	14,000		
Lead	1.3 R	1.5 UJ	5.7 J	10.0	1.5	4.7 J	11.7 J		
Magnesium	—	—	—	62,400	51,500	49,100	58,000		
Manganese	—	—	—	923	224	357	1,180		
Mercury	0.1 UJ	0.1	0.1	0.1	0.1	0.1	0.1		
Nickel	16.0	4.8	6.5	20.0	6.7	6.3	19.0		
Potassium	—	—	—	31,900	32,500	32,900	28,600		
Selenium	4.0 R	4.4	4.4 R	4.4 UJ	4.4 UJ	4.4 UJ	4.4 R		
Silver	0.5	0.4	0.4	0.4	0.4	0.9	0.9		
Sodium	—	—	—	180,000	162,000	152,000	184,000		
Thallium	3.6 UJ	2.6 UJ	2.6 UJ	2.6	2.6	6.3	6.3		
Vanadium	—	—	—	5.9	2.3	1.1	1.2		
Zinc	18.9 J	16.3	21.2 J	36.3 J	7.9 J	10.6	34.4 J		
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	0.098 J		10
Ethylbenzene							0.016 J	62	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	**February-03**	**May-03**	**August-03**	**November-03**	**March-04**	**May-04**	**September-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]	Insufficient Volume		Insufficient Volume		Insufficient Volume		Insufficient Volume		
Aluminum	—	—	—	25.8	25.8	57.9	—		200
Antimony	—	6.7	—	3.7	5.1	3.9	—	60	60
Arsenic	—	2.9	—	2.9	2.9	5.4	—	20	10
Barium	—	60.9	—	28.7	27.1	37.0	—	1,000	200
Beryllium	—	0.1	—	0.1	0.2	0.2	—	5	5
Cadmium	—	0.2	—	0.2	0.2	0.6	—	5	5
Calcium	—	—	—	100,000	309,000	163,000	—		5,000
Chromium	—	2.7	—	0.8	2.6	1.5	—	11	10
Cobalt	—	—	—	0.4	0.4	0.6	—		50
Copper	—	3.0	—	4.2	4.0	1.2	—	25	25
Iron	—	14.1	—	14.1	14.1	26.4	—	7,000	100
Lead	—	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	—	0.1	—	0.1	0.1	0.1	—	0.2	0.2
Nickel	—	1.1	—	0.7	2.4	2.1	—	96	40
Potassium	—	—	—	6,970	6,480	6,640	—		5,000
Selenium	—	4.4	—	4.4 R	4.4 UJ	4.4 R	—	8.5	5
Silver	—	0.4	—	0.4	0.4	0.9	—	10	10
Sodium	—	—	—	201,000	46,000	46,000	—		5,000
Thallium	—	2.6 UJ	—	2.6 UJ	2.6	6.3 UJ	—	40	10
Vanadium	—	—	—	0.8	0.8	1.1	—		50
Zinc	—	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	—	3.7	—	3.7	9.7	8.2	—		
Arsenic	—	2.9	—	11.7	17.0 J	5.4	—		
Barium	—	73.1	—	89.8	129	88.1	—		
Beryllium	—	0.1	—	0.9	2.5	1.3	—		
Cadmium	—	0.2	—	0.2	2.8	1.2	—		
Calcium	—	—	—	158,000	492,000	234,000	—		
Chromium	—	10.9	—	33.2	59.6	31.6	—		
Cobalt	—	—	—	16.6	36.1	19.1	—		
Copper	—	7.5	—	29.3	54.5	26.9	—		
Cyanide	—	3.0	—	3.0	—	0.5	—	10	10
Iron	—	7830	—	31,300	74,200	41,800	—		
Lead	—	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	—	0.1	0.1	0.1	—		
Nickel	—	7.8	—	31.6	67.3	37.8	—		
Potassium	—	—	—	9,290	11,800	10,600	—		
Selenium	—	4.4	—	4.4 UJ	4.4 UJ	4.4 UJ	—		
Silver	—	0.4	—	0.4	0.4	0.9	—		
Sodium	—	—	—	212,000	44,600	45,000	—		
Thallium	—	2.6 UJ	—	2.6	11.0 J	6.3	—		
Vanadium	—	—	—	23.2	51.2	19.8	—		
Zinc	—	34.2	—	135 J	180 J	97.3	—		
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	—		

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-61

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results		Quarterly Results						
Compound	February-03	May-03	August-03	November-03	March-04	May-04	September-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	25.8	25.8	55.3	55.3		200
Antimony	3.0	7.3	3.7	3.7	4.5	4.5	7.5	60	60
Arsenic	3.6	2.9	4.7	7.5	2.9	5.4	5.4	20	10
Barium	64.7	67.7	77.7 J	83.3	39.4	45.3 J	65.0	1,000	200
Beryllium	0.1	0.1	0.1	0.1	0.1	0.2	0.2	5	5
Cadmium	0.2 UJ	0.2	0.2	0.2	0.3	0.9	0.3	5	5
Calcium	—	—	—	191,000	191,000	178,000	199,000		5,000
Chromium	*1.6*	3.3	3.8	0.8	1.1	1.5	3.8	11	10
Cobalt	—	—	—	2.0	1.4	1.4	1.3		50
Copper	1.0 UJ	1.2	1.2	1.2	8.0	1.2	1.2	25	25
Iron	3,270	1,940	6,100 J	5,100	187	1,370 J	4,410	7,000	100
Lead	1.3 R	1.5 UJ	1.5	1.5	1.5	2.4 UJ	2.4	4.2	3
Magnesium	—	—	—	35,700	29,100	34,100	40,500		5,000
Manganese	—	—	—	866	485	481	686		15
Mercury	0.1 UJ	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	2.4	4.2	4.0	4.0	4.2	4.7 J	4.0	96	40
Potassium	—	—	—	10,100	6,990	7,160	8,690 J		5,000
Selenium	4.0 R	4.4	4.4	4.4 R	4.4 UJ	4.4	4.4 UJ	8.5	5
Silver	0.5	0.4	0.4	0.4	0.4	0.9	0.9	10	10
Sodium	—	—	—	28,300	27,900	28,600	28,400 J		5,000
Thallium	3.6	2.6 UJ	2.6	2.6 UJ	2.6	6.3	8.2	40	10
Vanadium	—	—	—	0.8	1.2	1.1	4.4		50
Zinc	0.8 UJ	7.4	13.1	4.8 J	0.6	0.7 UJ	0.7	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	1,080	452	5,090 J	7,740 J		
Antimony	3.0	4.5	3.7	3.7	4.8	5.2	3.9		
Arsenic	3.6	3.2	17.9	3.7	2.9	5.4	5.4 R		
Barium	84.4	69.5	202	91.3	44.1	108 J	155		
Beryllium	0.1	0.1	0.2	0.1	0.2	0.6	0.2		
Cadmium	0.2 UJ	0.2	0.2	0.2	0.3	1.2	0.3		
Calcium	—	—	—	190,000	187,000	217,000 J	278,000		
Chromium	5.6	2.9	23.2 J	2.1	1.9	8.1 J	15.0		
Cobalt	—	—	—	3.3	1.7	6.5	8.2		
Copper	1.0 UJ	1.2	28.2	4.2	22.2	12.4 J	12.6 J		
Cyanide	4.0	3.0	3.0	3.0	0.5	0.5	0.8	10	10
Iron	8,720	2,330	33,400 J	8,640	2,430	17,500 J	26,200		
Lead	1.3 R	1.5 UJ	19.7 J	1.6	22.1	9.3 J	10.3 J		
Magnesium	—	—	—	37,500	30,000	45,200 J	59,700		
Manganese	—	—	—	922	527	751 J	1,190		
Mercury	0.1 UJ	0.1	0.1	0.1	0.1	0.1	0.1		
Nickel	6.6	4.1	29.5	7.6	4.3	17.2 J	19.3		
Potassium	—	—	—	9,430	6,950	9,300	10,900		
Selenium	4.0 R	4.4	4.4 R	4.4 UJ	4.4 UJ	4.4	4.4 R		
Silver	0.5	0.4	0.4	0.4	0.4	0.9	0.9		
Sodium	—	—	—	27,700	27,000	30,300 J	32,800		
Thallium	*3.8 UJ*	*2.6 UJ*	*2.6 UJ*	*2.6*	*2.6*	*6.3*	*6.3*		
Vanadium	—	—	—	0.8	2.1	3.4	6.6		
Zinc	9.9 J	18.3	96.7 J	13.8 J	7.3 J	22.4 UJ	56.9		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Carbon disulfide	1.0 U	1.0 U	1.4	1.0 U	1.0 U	1.0 U	0.43 J		10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Bis(2-Chloroethyl)ether						0.665 J	0.893 J	13.6	10
Bis (2-ethlyhexyl) phthalate	10.0 U	10.0 U	40.6	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.

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	**February-03**	**May-03**	**August-03**	**November-03**	**March-04**	**May-04**	**September-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	25.8	25.8	55.3	55.3		200
Antimony	3.0	9.6	3.7	3.7	3.7	4.7	5.4	**60**	60
Arsenic	3.6	2.9	2.9	2.9	2.9	5.4	5.4	**20**	10
Barium	162	146	145 J	126	111	117	111	**1,000**	200
Beryllium	0.1	0.1	0.1	0.1	0.1	0.2	0.2	**5**	5
Cadmium	0.2 UJ	0.2	0.2	0.2	0.2	0.3	0.3	**5**	5
Calcium	—	—	—	123,000	122,000	122,000	132,000		5,000
Chromium	3.5	3.5	3.5	0.8	2.1	2.8	4.5	**11**	10
Cobalt	—	—	—	0.4	0.5	0.6	0.6		50
Copper	1.0 UJ	4.4	2.4	2.7	1.2	1.2	1.2	**25**	25
Iron	317	14.1	14.1	14.1	14.1	27.0	9.1	**7,000**	100
Lead	1.3 R	1.5 UJ	1.5	1.5	1.5	2.4	2.4	**4.2**	3
Magnesium	—	—	—	49,200	48,700	47,700	49,400		5,000
Manganese	—	—	—	51.4	164 J	58.2	29.2		15
Mercury	0.1 UJ	0.1	0.1	0.1	0.1	0.1	0.1	**0.2**	0.2
Nickel	1.8	2.1	0.7	0.9	1.8	2.2	1.1	**96**	40
Potassium	—	—	—	10,800	11,100	10,900	10,000 J		5,000
Selenium	4.0 R	4.4	4.4	4.4 R	4.4 UJ	4.4 R	4.4 UJ	**8.5**	5
Silver	0.5	0.5	0.4	0.4	0.4	0.9	1.6	**10**	10
Sodium	—	—	—	120,000	120,000	108,000	120,000 J		5,000
Thallium	3.6	2.6 UJ	2.6	2.6 UJ	2.6	6.3 UJ	6.3	**40**	10
Vanadium	—	—	—	0.8	1.6	1.1	1.1		50
Zinc	0.8 UJ	7.4	11.0	0.9 J	0.6 UJ	3.7	0.7	**86**	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	24,100	13,200	4,100	5,690 J		
Antimony	3.0	4.7	3.7	3.7	6.1	8.0	3.9		
Arsenic	20.7	8.7	18.3	17.7	8.3 J	5.4	5.4 R		
Barium	1,170	615	800	633	361	226	237		
Beryllium	1.7	0.8	1.1	1.5	1.1	0.3	0.2		
Cadmium	0.2 UJ	0.2	0.2	1.1	1.6	0.3	0.3		
Calcium	—	—	—	618,000	337,000	231,000	200,000		
Chromium	85.5	49.3	68.6 J	49.5	29.6	10.7	17.8		
Cobalt	—	—	—	33.5	15.6	5.4	6.2		
Copper	76.1 UJ	45.2	68	72.8	42.7	8.8	9.6 J		
Cyanide	4.0	—	3.0	3.0	1.0	0.5	0.6	**10.0**	10.0
Iron	85,100	51,500	65,400 J	60,800	35,000	9,710	14,200		
Lead	68.0 UJ	33.6 J	65.2 J	72.8	39.5	12.0 J	16.8 J		
Magnesium	—	—	—	137,000	88,000	57,500	57,400		
Manganese	—	—	—	3,380	1,460	746	608		
Mercury	0.1 UJ	0.1	0.1	0.1	0.1	0.1	0.1		
Nickel	86.4	53.4	75.7	64.3	35.4	13.1	12.3		
Potassium	—	—	—	15,100	13,900	12,100	12,000		
Selenium	4.0 R	4.4	4.4 R	4.4 UJ	4.4 UJ	4.4 UJ	4.4 R		
Silver	0.5	0.4	0.4	0.4	0.4	0.9	0.9		
Sodium	—	—	—	121,000	123,000	108,000	121,000		
Thallium	3.6 UJ	2.6 UJ	2.6 UJ	2.6	6.9 J	6.3	6.3		
Vanadium	—	—	—	40.5	23.0	1.1	1.9		
Zinc	242 J	179	234 J	181 J	101 J	34.7	42.9 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Benzene							0.035 J	**5**	10
Ethylbenzene							0.019 J	**62**	10
Xylene (total)							0.039 J	**10,000**	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-62B

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results		Quarterly Results						
Compound	**February-03**	**May-03**	**August-03**	**November-03**	**March-05**	**May-04**	**September-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]	Well is Dry	Innsufficient Volume	Well is Dry	Well is Dry	Well is Dry	Insufficient Volume	Well is Dry		
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	February-03	May-03	August-03	November-03	March-04	May-04	September-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	25.8	25.8	82.4	55.3		200
Antimony	3.0	8.9	7.1	3.7	3.8	11.3	5.7	60	60
Arsenic	3.6	2.9	2.9	5.4	2.9	5.4	5.4	20	10
Barium	72.2	50.1	58.8 J	68.6	20.1	29.9 J	50.6	1,000	200
Beryllium	0.1	0.1	0.1	0.1	0.2	0.5	0.2	5	5
Cadmium	0.2 UJ	0.2	0.2	0.2	0.2	1.3	0.3	5	5
Calcium	—	—	—	278,000	295,000	287,000	292,000		5,000
Chromium	3.6	3.4	3.2	0.8	1.8	1.5 UJ	4.7	11	10
Cobalt	—	—	—	4.1	1.1	3.6	2.9		50
Copper	1.0 UJ	1.2	1.2	1.2	2.0 J	1.2	1.2	25	25
Iron	622	297	1,890 J	1,150	21.4	620 J	1,150	7,000	100
Lead	1.3 R	1.5 UJ	1.5	1.5	1.5	2.4 UJ	2.4	4.2	3
Magnesium	—	—	—	61,000	67,000	67,400	63,300		5,000
Manganese	—	—	—	2,600	271 J	1,840 J	2,610		15
Mercury	0.1 UJ	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	6.6	5.9	8.3	6.9	3.2	8.8 J	4.0	96	40
Potassium	—	—	—	11,600	5,210	7,800 J	9,090 J		5,000
Selenium	4.0 R	4.4	4.4	4.4 R	4.4 UJ	4.4 UJ	4.4 UJ	8.5	5
Silver	0.5	0.4	0.4	0.4	0.4	0.9	0.9	10	10
Sodium	—	—	—	72,100	46,100	75,100 J	99,800 J		5,000
Thallium	3.6	2.6 UJ	2.6	2.6 UJ	4.6 J	6.3	6.3	40	10
Vanadium	—	—	—	0.8	0.8	1.1	1.1		50
Zinc	0.8 UJ	12.9	10.8	3.7 J	0.6 UJ	0.7 UJ	0.7	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	10,500	26,600	44,700 J	37,200 J		
Antimony	3.0	4.6	3.7	3.7	5.7	13.6	3.9		
Arsenic	30.4	12.6	12.6	9.3	17.1 J	9.7 J	5.4 R		
Barium	390	178	217	147	186	334 J	279		
Beryllium	2.3	0.9	0.9	0.6	2.1	3.4	1.4		
Cadmium	0.2 UJ	0.2	0.2	0.2	2.5	3.9	0.3		
Calcium	—	—	—	465,000	465,000	659,000 J	569,000		
Chromium	70.8	30.8	36.1 J	13.7	38.2	66.8 J	52.0		
Cobalt	—	—	—	17.5	28.3	56.1	41.1		
Copper	77.8 J	29.3	33.0	17.4	69.2	104 J	64.0 J		
Cyanide	4.0	3.0	3.0	3.0	0.5	1.2	0.7	10	10
Iron	109,000	44,100	53,900 J	25,800	63,200	112,000 J	84,700		
Lead	70.2 UJ	28.5 J	36 J	23.4	41.0	76.4 J	57.4 J		
Magnesium	—	—	—	96,100	111,000	148,000 J	121,000		
Manganese	—	—	—	4,090	2,570	5,580 J	5,250		
Mercury	0.1 UJ	0.1	0.1	0.1	0.1	0.1	0.1		
Nickel	104	47.5	59.6	31.0	58.1	114 J	83.3		
Potassium	—	—	—	31,500	9,320	15,800 J	15,500		
Selenium	4.0 R	4.4	4.4 R	4.4 UJ	4.4 UJ	7.2	4.4 R		
Silver	0.5	0.4	0.4	0.4	0.4	0.9	0.9		
Sodium	—	—	—	73,600	45,000	81,700 J	100,000		
Thallium	3.6 UJ	2.6 UJ	2.6 UJ	2.6	8.5 J	6.3	6.3		
Vanadium	—	—	—	17.8	43	69.3	58.7		
Zinc	267 J	129	182 J	66.3 J	176 J	292 J	243 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Acetone	5.0 U	78.0 J	5.0 U	5.0 U	5.0 R	5.0 R	5.0 R		10
Benzene							0.027	5	10
Carbon disulfide	1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U	0.075 J		10
Ethylbenzene							0.022 J	62	10
Xylene (total)							0.037 J	10,000	10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Di-n-butylphthalate						0.692 J	10.0 U	10	10
Butylbenzylphthalate					0.61 J	10.0 U	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	February-03	May-03	August-03	November-03	March-04	May-04	September-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	25.8	25.8	55.3	55.3		200
Antimony	3.0	5.3	4.2	3.7	3.7	6.9	7.1	60	60
Arsenic	3.6	2.9	2.9	2.9	2.9	5.4	5.4	20	10
Barium	31.0	28.9	31.5 J	44.6	28.3	29.3	26.6	1,000	200
Beryllium	0.1	0.1	0.1	0.1	0.1	0.2	0.2	5	5
Cadmium	0.2 UJ	0.2	0.2	0.2	0.2	0.3	0.3	5	5
Calcium	—	—	—	185,000	176,000	170,000	184,000		5,000
Chromium	4.9	6.5	3.8	0.8	1.7	3.5	6.0	11	10
Cobalt				0.5	1.8	1.2	0.9		50
Copper	1.0 UJ	4.9	4.5	3.4	1.2	2.2	1.2	25	25
Iron	63.2 R	52.6	14	14.1	14.1	35.5	9.1	7,000	100
Lead	1.3 UJ	1.5 UJ	1.5	1.5	1.5	2.4 UJ	2.4	4.2	3
Magnesium	—	—	—	61,800	56,700	55,100	59,600		5,000
Manganese	—	—	—	292	1,170 J	2,270	100		15
Mercury	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	12.8 R	13.4	9.4	5.2	7.8	10.7	2.8	96	40
Potassium	—	—	—	12,300	12,900	17,500	20,400 J		5,000
Selenium	4.0	4.4	4.4	4.4 R	4.4 UJ	4.4 R	4.4 UJ	8.5	5
Silver	0.5	0.4	0.4	0.4	0.4	0.9	1.1	10	10
Sodium	—	—	—	67,600	53,900	61,400	64,400 J		5,000
Thallium	*3.6*	*2.6 UJ*	*2.6*	*2.6 UJ*	*2.6*	*6.3 UJ*	*6.3*	40	10
Vanadium	—	—	—	0.8	0.8	1.1	1.1		50
Zinc	0.8 UJ	9.1	16.1	2.6 J	0.6 UJ	0.7	0.7	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	18,700 J	3,080	3,440	14,600 J		
Antimony	3.0	5.6	3.7	3.7	4.9	4.8	3.9		
Arsenic	4.3	2.9	6.2	10.8	2.9	5.4	5.4 R		
Barium	59.5	47.9	58.3	95.9	37.1	36.6	59.8		
Beryllium	0.5	0.1	0.2	1.0	0.3	0.5	0.3		
Cadmium	0.2 UJ	0.2	0.2	0.2	0.2	0.7	0.3		
Calcium	—	—	—	311,000	213,000	213,000	224,000		
Chromium	22.9	14.8	22.4 J	29.4	7.0	2.8	24.3		
Cobalt	—	—	—	23.1	5.4	6.3	13.6		
Copper	2.2 J	9.6	16.0	16.3	11.3	7.4	14.9 J		
Cyanide	4.0	3.0	3.0	3.0	1.3	0.5	1.2	10	10
Iron	25,900	14,700	24,300 J	42,900	7,520	8,940	34,500		
Lead	8.1 UJ	1.7 J	9.7 J	20.0	1.5	6.2 J	14.4 J		
Magnesium	—	—	—	77,300	66,000	56,200	67,300		
Manganese	—	—	—	2,390	1,650	2,840	1,460		
Mercury	0.1 UJ	0.1	0.1	0.1	0.1	0.1	0.1		
Nickel	38.3	26.1	33.9	46.0	16.4	20.3	32.3		
Potassium	—	—	—	14,700	15,000	18,400	23,500		
Selenium	4.0 R	4.4	4.4 R	4.4 UJ	4.4 UJ	4.4 UJ	4.4 R		
Silver	0.5	0.4	0.4	0.4	0.4	0.9	0.9		
Sodium	—	—	—	68,300	59,800	58,200	63,100		
Thallium	3.6 UJ	2.6 UJ	2.6 UJ	2.6	2.6	6.3 UJ	6.3		
Vanadium	—	—	—	27.3	5.3	1.1	16.0		
Zinc	51.3 J	69.1	73.6 J	114 J	13.6 J	19.1	70.3 J		
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	10.0 U	10.0	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-65

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results		Quarterly Results						
Compound	**February-03**	**May-03**	**August-03**	**November-03**	**March-04**	**May-04**	**September-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]	Insufficient Volume	Insufficient Volume	Insufficient Volume	Insufficient Volume	Insufficient Volume	Insufficient Volume	Well is Dry		
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	—	—	—	—	—	—	—		
olatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	—		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	—	BRL	—		
4-Nitrophenol	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U		**150**	25
Bis (2-ethlyhexyl) phthalate	10.0 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	February-03	May-03	August-03	November-03	March-04	May-04	September-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	25.8	25.8	74.3	55.3		200
Antimony	3.0 U	9.7 B	3.7	3.7	3.7	4.7	9.9	60	60
Arsenic	3.6 U	3.6 U	7.1	2.9	2.9	5.4	5.4	20	10
Barium	57.7 B	50.9 B	55.2	40.0	35.8	50.9	56.3	1,000	200
Beryllium	0.1 U	0.1 U	0.1	0.1	0.1	0.3	0.2	5	5
Cadmium	0.2 UJ	0.2 U	0.2	0.2	0.2	1.2	0.3	5	5
Calcium	—	—	—	84,100	103,000	92,300	95,700		5,000
Chromium	2.1 B	2.9 B	1.8	0.8	1.6	1.5 UJ	3.5	11	10
Cobalt	—	—	—	0.5	0.4	0.6	0.6		50
Copper	1.0 UJ	1.0 U	3.1	4.4	4.3	1.4	1.2	25	25
Iron	129	4.9 U	14.1	14.1	14.1	36.5	9.1	7,000	100
Lead	1.3 R	1.3 U	1.5	1.5	1.5	2.4	2.4	4.2	3
Magnesium	—	—	—	23,400	29,700	28,600	28,500		5,000
Manganese	—	—	—	3.8	30.0 J	5.0	27.1		15
Mercury	0.1 U	0.1 U	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	*0.8 B*	*1.7 B*	*0.7*	*0.7*	*1.0*	*2.8*	*1.1*	96	*40*
Potassium	—	—	—	3,840	2,980	3,160	4,340		5,000
Selenium	4.0 R	4.0 UJ	4.4	4.4 R	4.4 R	4.4 UJ	4.4 R	8.5	5
Silver	0.5 U	4.1 B	0.4	0.4	0.4	0.9	1.3	10	10
Sodium	—	—	—	32,100	59,200	38,700	49,200 J		5,000
Thallium	4.3 J	3.6 U	6.8 J	2.6	2.6	6.3	6.3	40	10
Vanadium	—	—	—	0.8	2.2	1.1	4.0		50
Zinc	0.8 UJ	11.0 B	13.8	0.6 UJ	0.6	0.7 UJ	0.7	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	25.8	62,300 J	100	55.3		
Antimony	3.0 U	9.3 B	3.7	3.7	7.3 J	3.9	3.9		
Arsenic	3.6 U	3.6 U	2.9	3.4	50.7 J	5.4	5.4 R		
Barium	58.1 B	50.7 B	55.4	41.3	499 J	53.0	57.6		
Beryllium	0.1 U	0.1 U	0.1	0.1	4.9	0.2	0.2		
Cadmium	0.2 UJ	0.2 U	0.2	0.2	5.0	0.9	0.3		
Calcium	—	—	—	86,400	427,000 J	93,500	93,400		
Chromium	2.3 B	3.2 B	1.7	0.8	72.6 J	1.5	2.9		
Cobalt	—	—	—	0.4	59.7	0.6	0.6		
Copper	5.7 J	4.4 B	2.5	4.4	131 J	1.2	1.2		
Cyanide	4.0 U	4.0 U	3.0	3.0	0.8	0.5	0.5	10	10
Iron	141	4.9 U	23.5	69.2	124,000 J	102	9.1		
Lead	1.3 R	1.3 U	1.5	1.5	122 J	2.4	2.4		
Magnesium	—	—	—	23,900	80,300	30,200	26,800		
Manganese	—	—	—	5.8	5,690	8.1	43.3		
Mercury	0.1 U	0.1 U	0.1	0.1	0.1	0.1	0.1		
Nickel	0.5 U	1.3 B	1.5	0.7	116 J	1.1	1.1		
Potassium	—	—	—	3,990	12,200	3,230	3,910		
Selenium	4.0 R	4.0 U	4.4 UJ	4.4 R	4.4 R	4.4	4.4 R		
Silver	0.5 U	4.3 B	0.4	0.4	0.4	0.9	0.9		
Sodium	—	—	—	33,000	60,200	40,300	48,100		
Thallium	3.6 UJ	3.6 UJ	5.5 J	2.6	2.6	6.3	6.3		
Vanadium	—	—	—	0.8	105	1.1	1.1		
Zinc	2.0 J	13.1 B	10.9	1.3 J	490 J	0.7 UJ	0.7		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
1,2,4-Trichlorobenzene							0.026 J	77	10
Chloroform							0.019 J	79	10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	10.0 U	BRL	BRL		
Fluoranthene					0.84 J	10.0 U	10.0 U	10	10
Phenanthrene					0.79 J	10.0 U	10.0 U	10	10
Pyrene					0.67 J	10.0 U	10.0 U		10
Diethylphthalate				2.17 J	10.0 U	10.0 U	10.0 U		10
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 .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	February-03	May-03	August-03	November-03	March-04	May-04	September-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	25.8	25.8	89.6	55.3		200
Antimony	3.0 U	8.7 B	3.7	3.7	3.7	3.9	3.9	60	60
Arsenic	3.6 U	3.6 U	5.3	3.2	2.9	5.4	5.4	20	10
Barium	59.4 B	54.8 B	49.9	42.2	36.7	46.2	51.0	1,000	200
Beryllium	0.1 U	0.1 U	0.1	0.1	0.1	0.3	0.2	5	5
Cadmium	0.2 UJ	0.2 U	0.2	0.2	0.2	1.2	0.3	5	5
Calcium	—	—	—	88,800	106,000	89,600	89,300		5,000
Chromium	2.5 B	2.7 B	0.8	0.8	1.7	1.5 UJ	3.1	11	10
Cobalt	—	—	—	0.4	0.4	0.6	0.6		50
Copper	1.0 UJ	1.0 U	2.2	5.1	3.0	1.2	1.2	25	25
Iron	11.9 B	4.9 U	14.1	14.1	14.1	41.5	9.1	7,000	100
Lead	1.3 R	1.3 U	1.5	1.5	1.5	2.4 UJ	2.4	4.2	3
Magnesium	—	—	—	24,700	31,500	29,200	29,300		5,000
Manganese	—	—	—	4.6	29.9 J	4.3	2.6		15
Mercury	0.1 U	0.1 U	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	0.5 U	1.7 B	0.7	0.7	2.4	2.5	1.1	96	40
Potassium	—	—	—	3,910	2,160	3,010	3,960		5,000
Selenium	4.0 R	4.0 UJ	4.4	4.4 R	4.4 R	4.4 UJ	4.4 R	8.5	5
Silver	0.5 U	3.3 B	0.4	0.4	0.4	0.9	1.2	10	10
Sodium	—	—	—	34,000	60,200	41,100	49,200 J		5,000
Thallium	3.6 UJ	3.6 U	10.6	2.6	2.6	6.3	6.3	40	10
Vanadium	—	—	—	0.8	2.4	1.1	1.1		50
Zinc	0.8 UJ	26.8	13.9	0.6 UJ	3.4	0.7 UJ	0.7	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	25.8	9,250 J	55.3	55.3		
Antimony	3.0 U	7.8 B	3.7	3.7	3.7 UJ	4.6	6.7		
Arsenic	3.6 U	3.6 U	2.9	2.9	11.1 J	5.4	5.4 R		
Barium	59.3 B	51.8 B	50.9	42.6	112 J	48.9	50.7		
Beryllium	0.1 U	0.1 U	0.1	0.1	0.7	0.2	0.2		
Cadmium	0.2 UJ	0.2 U	0.2	0.2	0.5	0.7	0.3		
Calcium	—	—	—	86,700	153,000 J	89,900	89,400		
Chromium	2.8 B	2.7 B	1.7	0.8	12.7 J	1.5 UJ	2.6		
Cobalt	—	—	—	0.4	7.8	0.6	0.6		
Copper	1.0 UJ	1.0 U	1.9	3.2	22.0 J	1.2	1.2		
Cyanide	4.0 U	4.0 U	3.0	3.0	0.6	0.5	0.5	10	10
Iron	74.8 B	10.0 B	49.5	83.8	17,800 J	63.6	82.8		
Lead	1.3 R	1.3 U	1.5	1.5	17.3 J	2.4	2.4		
Magnesium	—	—	—	23,900	38,900 J	26,900	27,300		
Manganese	—	—	—	6.5	685 J	7.1	12.2		
Mercury	0.1 U	0.1 U	0.1	0.1	0.1	0.1	0.1		
Nickel	0.5 U	1.1 B	0.7	0.7	16.4 J	1.3	1.1		
Potassium	—	—	—	3,820	4,470	2,870	3,890		
Selenium	4.0 R	4.0 U	4.4 UJ	4.4 R	4.4 R	4.4 UJ	4.4 R		
Silver	0.5 U	3.0 B	0.4	0.4	0.4	0.9	1.1		
Sodium	—	—	—	32,800	61,800	40,900	49,400		
Thallium	3.6 U	3.6 UJ	5.9 J	2.6	2.6	6.3	6.3		
Vanadium	—	—	—	0.8	18.7 J	1.1	1.1		
Zinc	7.8 J	12.7 B	9.7	0.6 UJ	52.9 J	0.7 UJ	0.7		
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 .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-52

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results		Quarterly Results						
Compound	February-03	May-03	August-03	November-03	March-04	May-04	September-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Aluminum	—	—	—	25.8	25.8	81.9	55.3		200
Antimony	3.0 U	6.5 B	3.7	3.7	3.7	5.5	8.8	60	60
Arsenic	3.6 U	3.6 U	4.9	2.9	2.9	5.4	5.4	20	10
Barium	57.7 B	52.8 B	54.2	40.7	40.7	50.7	54.3	1,000	200
Beryllium	0.1 U	0.1 U	0.1	0.1	0.1	0.3	0.2	5	5
Cadmium	0.2 UJ	0.2 U	0.2	0.2	0.2	1.1	0.3	5	5
Calcium	—	—	—	86,000	107,000	92,700	96,400		5,000
Chromium	3.5 B	2.8 B	2.1	0.8	1.3	1.5 UJ	3.0	11	10
Cobalt	—	—	—	0.4	0.4	0.6	0.6		50
Copper	1.0 UJ	1.0 U	2.3	3.7	2.0	1.5	1.2	25	25
Iron	*575*	*4.9 U*	*14.1*	*14.1*	*14.1*	*52.3*	*9.1*	*7,000*	*100*
Lead	1.3 R	1.3 U	1.5	1.5	1.5	2.4 UJ	2.4	4.2	3
Magnesium	—	—	—	23,500	30,700	29,200	27,300		5,000
Manganese	—	—	—	5.0	1.5 J	5.1	24.0		15
Mercury	0.1 U	0.1 U	0.1	0.1	0.1	0.1	0.1	0.2	0.2
Nickel	1.5 B	1.2 B	1.1	0.7	0.7	2.1	1.1	96	40
Potassium	—	—	—	3,720	1,900	3,260	3,600		5,000
Selenium	4.0 R	4.0 UJ	4.4	4.4 R	4.4 R	4.4 UJ	4.4 R	8.5	5
Silver	0.5 U	3.5 B	0.4	0.4	0.4	0.9	1.5	10	10
Sodium	—	—	—	32,900	61,400	39,400	49,600 J		5,000
Thallium	3.6 UJ	3.6 U	6.2 J	2.6	2.6	6.3	6.3	40	10
Vanadium	—	—	—	0.8	1.9	1.1	1.1		50
Zinc	0.8 UJ	15.8 B	26.5	1.5 J	4.5	0.7 UJ	0.7	86	20
Inorganics - Metals and Cyanide (Total)									
Aluminum	—	—	—	25.8	26.8 J	100	55.3		
Antimony	3.0 U	5.9 B	3.7	3.7	3.7 UJ	3.9	3.9		
Arsenic	3.6 U	3.6 U	2.9	2.9	2.9	5.4	5.4 R		
Barium	58.4 B	53.2 B	54.4	41.2	41.7 J	51.6	53.3		
Beryllium	0.1 U	0.1 U	0.1	0.1	0.1	0.2	0.2		
Cadmium	0.2 UJ	0.2 U	0.2	0.2	0.2	1.1	0.3		
Calcium	—	—	—	84,800	108,000 J	98,900	98,000		
Chromium	2.4 B	3.7 B	1.5	0.8	1.7 J	1.5 UJ	3.0		
Cobalt	—	—	—	0.4	0.5	0.6	0.6		
Copper	1.0 UJ	1.0 U	1.7	3.3	3.2 J	1.2	1.2		
Cyanide	4.0 B	4.0 U	3.0	3.0	0.5 J	0.5	0.5	10	10
Iron	76.7 R	28.2 B	45.9	79.6	67.8 J	81.7	88.8		
Lead	1.3 R	1.3 U	1.5	1.5	1.5	2.4	2.4		
Magnesium	—	—	—	23,300	31,100 J	29,700	26,200		
Manganese	—	—	—	6.8	3.2 J	9.8	28.1		
Mercury	0.1 U	0.1 U	0.1	0.1	0.1 J	0.1	0.1		
Nickel	0.5 U	1.9 B	0.7	0.7	1.1 J	1.4	1.1		
Potassium	—	—	—	3,710	1,900	2,940	3,700		
Selenium	4.0 R	4.0 U	4.4 UJ	4.4 R	4.4 R	4.4 UJ	4.4 R		
Silver	0.5 U	3.3 B	0.4	0.4	0.6	0.9	1.2		
Sodium	—	—	—	32,800	61,200	40,000	51,100		
Thallium	3.6 U	3.6 UJ	6.0 J	2.6	2.6	10.2 J	6.3		
Vanadium	—	—	—	0.8	2.2 J	1.1	1.1		
Zinc	6.0 J	12.6 B	8.7	0.6 UJ	0.6	0.7 UJ	0.7		
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 .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	**February-03**	**May-03**	**August-03**	**November-03**	**March-04**	**May-04**	**September-04**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]	Location is Dry			Location is Dry	Location is Dry	Location is Dry	Location is Dry		
Antimony	—	5.7 B	3.7	—	—	—	—	60	60
Arsenic	—	2.9 U	2.9	—	—	—	—	10	10
Barium	—	22.0 B	20.8	—	—	—	—	1,000	200
Beryllium	—	0.1 U	0.1	—	—	—	—	5	5
Cadmium	—	0.2 U	0.2	—	—	—	—	5	5
Chromium	—	2 B	0.8	—	—	—	—	11	10
Copper	—	9 B	5.1	—	—	—	—	25	25
Iron	—	14.1 U	14.1	—	—	—	—	5,000	100
Lead	—	1.5 UJ	1.5	—	—	—	—	4.2	3
Mercury	—	0.1 U	0.1	—	—	—	—	0.2	0.2
Nickel	—	1.3 B	1.5	—	—	—	—	96	40
Selenium	—	4.4 U	4.4	—	—	—	—	5	5
Silver	—	0.4 U	0.4	—	—	—	—	10	10
Thallium	—	2.6 UJ	2.6	—	—	—	—	40	10
Zinc	—	76.2	48.0 J	—	—	—	—	86	20
Inorganics - Metals and Cyanide (Total)									
Antimony	—	5.8 B	3.7	—	—	—	—		
Arsenic	—	2.9 U	2.9	—	—	—	—		
Barium	—	26.4 B	21.7	—	—	—	—		
Beryllium	—	0.1 U	0.1	—	—	—	—		
Cadmium	—	0.1 U	0.2	—	—	—	—		
Chromium	—	0.2 B	0.8	—	—	—	—		
Copper	—	3.6 B	24.0	—	—	—	—		
Cyanide	—	3.0 U	3.0	—	—	—	—	10	10
Iron	—	461	72.2	—	—	—	—		
Lead	—	1.5 UJ	1.5	—	—	—	—		
Mercury	—	0.1 U	0.1	—	—	—	—		
Nickel	—	1.3 B	1.4	—	—	—	—		
Selenium	—	4.4 U	4.4 UJ	—	—	—	—		
Silver	—	0.4 U	0.4	—	—	—	—		
Thallium	—	2.6 U	2.6 UJ	—	—	—	—		
Zinc	—	167	91.1 J	—	—	—	—		
Volatile Organic Compounds (VOCs)	—	BRL	BRL	—	—	—	—		
Semi-Volatile Organic Compounds (SVOCs)	—	BRL	BRL	—	—	—	—		
Pesticides / PCBs	—	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	**February-03**	**May-03**	**August-03**	**November-03**	**March-04**	**May-05**	**September-04**	**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	February-03	May-03	August-03	November-03	March-04	May-04	September-04	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]							Location is Dry		
Aluminum	—	—	—	98.7	34.6	55.3	—		200
Antimony	3.5 B	3.7 U	3.7	3.7	3.7	3.9	—	60	60
Arsenic	3.6 U	2.9 U	2.9	2.9	5.3	5.4	—	20	10
Barium	34.1 B	26.6 B	19.1	40.1	29.8	32.7	—	1,000	200
Beryllium	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	0.2	0.2	0.3	—	5	5
Calcium	—	—	—	130,000	125,000	107,000	—		5,000
Chromium	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	2.3 B	1.2	10.4	4.6 J	1.2	—	25	25
Iron	59.5 B	14.7 B	14.1	59.0	17.2	22.2	—	7,000	100
Lead	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	0.1 UJ	0.1	0.1	—	0.2	0.2
Nickel	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 R	4.4 U	4.4	4.4	4.4 UJ	4.4 R	—	8.5	5
Silver	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	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	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	4.0 B	4.1 B	3.7	3.7	5.2	3.9	—		
Arsenic	3.6 U	2.9 U	2.9	2.9	2.9	5.4	—		
Barium	41.8 B	37.7 B	29.0	37.0	40.0	33.1	—		
Beryllium	0.1 U	0.1 U	0.1	0.1	0.2	0.2	—		
Cadmium	0.2 U	0.2 U	0.2	0.2	0.2	0.3	—		
Calcium	—	—	—	12,100	131,000	108,000	—		
Chromium	6.4 B	4.2 B	0.8	1.0	1.4	1.5	—		
Cobalt	—	—	—	0.4	1.5	0.6	—		
Copper	8.8 B	6.0 B	8.6	14.8	11.0 J	1.2	—		
Cyanide	4.0 U	3.0 U	3.0	3.0	0.8	0.8	—	10	10
Iron	1,620	3,290	3,360	155	2,200	258	—		
Lead	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	0.1 UJ	0.1	0.1	—		
Nickel	2.5 B	3.4 B	4.2	0.7	2.5	1.2	—		
Potassium	—	—	—	3,560	4,170	4,100	—		
Selenium	4.0 UJ	4.4 U	4.4 UJ	4.4	4.4 R	4.4 UJ	—		
Silver	0.5 U	0.4 U	0.4	0.4	0.4	0.9	—		
Sodium	—	—	—	10,300	12,600	14,100	—		
Thallium	3.6 U	2.6 UJ	2.6 UJ	2.6	2.6	6.3	—		
Vanadium	—	—	—	0.8	2.2	1.1	—		
Zinc	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	—		
Semi-Volatile Organic Compounds (SVOCs)	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 .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.

LABORATORY DATA VALIDATION REPORT

APPENDIX C

EarthTech
A Tyco International Ltd Company

DATA VALIDATION REPORT

FOR

SKINNER LANDFILL SITE

EARTH TECH: PROJECT NUMBER 54280

LABORATORY REPORT NUMBER 204090903

PROJECT MANAGER: Ron Rolker

Date: December 7, 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 204090903 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in September 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) 204090903.

GCAL #	Sample Description
20409090301	SKGW06R1011
20409090302	SKGW07R1011
20409090303	SKGW631011
20409090304	SKGW63FD1011
20409090305	SKGW591011
20409090306	SKGW62A1011
20409090307	SKGW641011
20409090309	SKGW06R1011 (DISS)
20409090310	SKGW07R1011 (DISS)
20409090311	SKGW631011 (DISS)
20409090312	SKGW63FD1011 (DISS)
20409090313	SKGW591011 (DISS)
20409090314	SKGW62A1011 (DISS)
20409090315	SKGW641011 (DISS)
20409090316	SKGW611011
20409090317	SKGW611011 MS
20409090319	SKGWEB1011
20409090321	SKGW61DUP1011
20409090322	SKGW611011 (DISS)
20409090323	SKGW61MS1011 (DISS)
20409090324	SKGW61DUP1011 (DISS)
20409090325	SKGWEB1011 (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. The laboratory to denote specific information regarding the analytical results uses various qualifier codes.

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 Selenium in the CCB's 9, 10, and 11 and Lead in the PB. 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 samples should have been re-digested and re-analyzed for Lead and Selenium. The Selenium results were rejected do to the 0% recovery associated with the matrix spike therefore further data qualification was not warranted.

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 SKGW611011 for the duplicate sample. 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 Copper, Lead, and Zinc. The Relative Percent Difference (RPD) between the sample and duplicate results in the dissolved fraction were within the acceptance criteria (<20%). 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).

7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SKGW611011 for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) with the exception of Selenium (0%) in the total fraction and Selenium (52%) in the dissolved fraction. As per the National Functional Guidelines: if the percent recovery is greater than 10% but less than the lower acceptance criteria then qualify detected results for that analyte with "J" and non-detected results with "UJ". If the percent is less than 10% then qualify detected results 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

GCAL qualified the groundwater results based on the spike recoveries for both groundwater and surface spike analysis. The data validator crossed out the "N" qualifier for the Arsenic (totals) results because the spike recovery for Arsenic associated with the groundwater analysis was within the acceptance criteria.

GCAL qualified the groundwater results for Iron (totals) based on the RPD for duplicate samples. The RPD was within the acceptance criteria therefore the data validator crossed out the "*" qualifier associated with the Iron (total) results.

GCAL qualified the groundwater results for Zinc (totals) based on the percent difference for the serial dilution. The percent difference was within the acceptance criteria therefore the data validator crossed out the "E" qualifier associated with the Zinc (total) results.

11. OVERALL ASSESSMENT

The percent recoveries for Lead in the Contract Required Detection Limit (CRDL) standards were 83.8%, 104.4%, 139.4%, 107.9%, 79.8%, and 114.7%.

The percent recoveries for Silver in the Contract Required Detection Limit (CRDL) standards were 109.9%, 107.7%, 110.3%, 105.1%, 107.2%, and 121.6%.

The percent recoveries for Thallium in the Contract Required Detection Limit (CRDL) standards were 84.7%, 83.5%, 90.7%, 120.7%, 116%, and 81.0%.

The percent recoveries for Zinc in the Contract Required Detection Limit (CRDL) standards were 118%, 136%, 133%, 139%, 93.3%, and 89.0%.

If the CRDL is greater than 120% then detected results greater than the IDL but less than two times the CRDL are qualified as estimated with "J". If the CRDL is below 75% then detected results are qualified 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 204090903 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 September 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 204090903.

GCAL #	Sample Description
20409090301	SKGW06R1011
20409090302	SKGW07R1011
20409090303	SKGW631011
20409090304	SKGW63FD1011
20409090305	SKGW591011
20409090306	SKGW62A1011
20409090307	SKGW641011
20409090316	SKGW611011
20409090317	SKGW611011 MS
20409090318	SKGW611011 MSD
20409090319	SKGWEB1011

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. The laboratory to denote specific information regarding the analytical results uses various data qualifier codes. 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 9/22/04 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 Hexachlorocyclopentadiene (38.2%). The lowest point of the calibration curve was dropped for Hexachlorocyclopentadiene and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Hexachlorocyclopentadiene 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

Two CC's dated 9/22/04 and 9/27/04 were analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC's 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 9/22/04 were within the acceptance criteria. The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 9/27/04 were within the acceptance criteria with the exception the %D for Di-n-octylphthalate. 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

One laboratory semivolatile method blank and Equipment Blank were analyzed with this SDG. The results are summarized below.

Method Blank (0913SBLK)

Bis-(2-ethylhexyl) phthalate (0.704 ppb) and Di-n-butylphthalate (0.684 ppb) were detected in method blank extracted on 9/13/04.

Equipment Blank (SKGWEB1011)

Bis-(2-ethylhexyl) phthalate (1.34 ppb) and Di-n-butylphthalate (0.84 ppb) were detected in the Equipment Blank collected on 9/9/04.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds (SMC) were recovered within acceptable control limits with the exception of Trephenyl-d14 associated with samples SKGW631011 (31%) and SKGW63FD1011 (29%). As per the National Functional Guidelines, no action is taken when only one SMC is outside of the acceptance criteria.

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

Sample SKGW611011 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of the 4-Nitorphenol (95%) in the MS and 4-Nitorphenol (107 %) and Pentachlorophenol (104%) 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.

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 and the Date Extracted off of the CLP Form 1'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 compounds Bis-(2-ethylhexyl) phthalate and 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

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204090903 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 September 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 204090903.

GCAL #	Sample Description
20409090301	SKGW06R1011
20409090302	SKGW07R1011
20409090303	SKGW631011
20409090304	SKGW63FD1011
20409090305	SKGW591011
20409090306	SKGW62A1011
20409090307	SKGW641011
20409090308	SKTB1011 (9/8/04)
20409090316	SKGW611011
20409090317	SKGW611011 MS
20409090318	SKGW611011 MSD
20409090319	SKGWEB1011
20409090320	SKTB1011 (9/9/04)

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. The laboratory to denote specific information regarding the analytical results uses various qualifier codes. 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 MSV0. Two bromofluorobenzene (BFB) tunes were run. The BFB tunes are acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 9/11/04 was analyzed on instrument MSV0 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 9/11/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone and. The %RSD's were within the acceptance criteria specified in the method for all target analytes. 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 9/11/04 and 9/12/04 were analyzed on instrument MSV0 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

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

MB1919955

Methylene chloride (0.12 ppb) was detected in the method blank analyzed on 9/11/04.

MB191996

There was no target compounds detected in the method blank analyzed on 9/12/04.

Storage Blank (VHBLK01)

Methylene chloride (0.12 ppb) was detected in the storage blank analyzed on 9/12/04.

Equipment Blank (SKEB1011)

Acetone (2.5 ppb), Methylene chloride (0.41 ppb), Toluene (0.20) and Xylenes (0.064 ppb) were detected in the Equipment Blank associated with the samples that were collected on 9/9/04. 2-Methyl-1-Propene was detected as a TIC at a concentration of 0.43 ppb.

Trip Blank SKTB1011 (20409090308)

Acetone (3.5 ppb), 2-Butanone (2.5 ppb), Methylene chloride (0.88 ppb), and Styrene (0.040 ppb) were detected in the Trip Blank associated with the samples that were collected on 9/8/04. 2-Methyl-1-Propene was detected as a TIC at a concentration of 0.46 ppb.

Trip Blank SKTB1011 (20409090320)

2-Butanone (2.7 ppb) and Methylene chloride (0.91 ppb) were detected in the Trip Blank associated with the samples that were collected on 9/9/04. 2-Methyl-1-Propene was detected as a TIC at a concentration of 0.45 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 SKGW611011 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria.

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 204090903 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 September 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 204090903.

GCAL #	Sample Description
20409090301	SKGW06R1011
20409090302	SKGW07R1011
20409090303	SKGW631011
20409090304	SKGW63FD1011
20409090305	SKGW591011
20409090306	SKGW62A1011
20409090307	SKGW641011
20409090316	SKGW611011
20409090317	SKGW611011 MS
20409090318	SKGW611011 MSD
20409090319	SKGWEB1011

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. The laboratory to denote specific information regarding the analytical results uses various qualifier codes.

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%. 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. The percent difference for each of the pesticides and surrogates in the midpoint concentration of the Individual Standard Mixtures A and B was within the acceptance criteria of ±25.0 percent with the exception of Heptachlor and Endrin. As per the National Functional Guidelines, if the percent difference is greater than 25 percent for the compound(s) being quantified, qualify all associated detected results with "J" and non-detects with "UJ".

5. BLANKS

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

<u>Method Blank 192012</u>

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 9/13/04.

Equipment Blank (SKGWEB1011)

No constituents were detected above the laboratory-reporting limit in the Equipment Blank collected on 9/9/04.

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 SKGW611011 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of Endrin (128%) associated with the MSD. The %RPD between the MS/MSD are within the acceptance criteria. As per the National Functional Guidelines, no action is taken on the 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 therefore the data validator inserted the preparation method 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 10/15/2004

GCAL Report 20409090

Deliver To	Earth Tech 200 Vine Street Wilder, KY 41076 859-442-2300
Attn	Pat Higgins

Customer Earth Tech

Project Skinner Landfill

000001

CORRECTED

RESUBMITTED

ADDITION

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

CASE NARRATIVE

Client: Earth Tech **Report:** 204090903

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 OLM04.2 - CLP Semi-Volatiles analysis sample 20409090303 (SKGW631011) and 20409090304 (SKGW63FD1011) had one surrogate outside of control limits in the acid fraction.

In the OLM04.2 - CLP Semi-Volatiles analysis prep batch 279905 the MS/MSD exhibited sporadic recovery failures. These recoveries were within limits in the LCS. This is attributed to a matrix interference.

GC-SEMI-VOLATILES

In the analysis of the standard INDAM02 on the confirmatory column, Heptachlor and Endrin were high. No results were reported from this column.

In the analysis of sample 20409090318 (MSD), the recovery for Endrin was above the advisory QC limits. There were no target hits for this compound in the associated samples.

METALS

Selenium was detected in the continuing calibration blank for analytical batch 280835; however, Selenium was not detected above the reporting limit for samples associated with this QC; therefore, the data is reportable.

In the ILM04.1 - CLP Metals analysis for prep batch 280262, 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 a matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 119%.

In the ILM04.1 - CLP Metals analysis for prep batch 280261, 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 a matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 63%.

The MS recovery is not applicable for Iron for prep batch 280261 because the sample concentration is greater than four times the spike concentration.

The Sample/Duplicate RPD for Cyanide, Total for prep batch 279920 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

The Sample/Duplicate RPD for Antimony and Thallium for prep batch 280262 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

The Sample/Duplicate RPD for Chromium, Copper, Lead, Nickel, and Zinc for prep batch 280261 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 reproduced 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
DATA VALIDATION MANAGER
GCAL REPORT 204090903

THIS REPORT CONTAINS 760 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20409090301	SKGW06R1011	Water	09/07/2004 13:32	09/09/2004 09:15
20409090302	SKGW07R1011	Water	09/07/2004 14:05	09/09/2004 09:15
20409090303	SKGW631011	Water	09/08/2004 10:15	09/09/2004 09:15
20409090304	SKGW63FD1011	Water	09/08/2004 11:05	09/09/2004 09:15
20409090305	SKGW591011	Water	09/08/2004 11:35	09/09/2004 09:15
20409090306	SKGW62A1011	Water	09/08/2004 11:55	09/09/2004 09:15
20409090307	SKGW641011	Water	09/08/2004 12:18	09/09/2004 09:15
20409090308	SKTB1011	Water	09/08/2004 00:00	09/09/2004 09:15
20409090309	SKGW06R1011 (DISS)	Water	09/07/2004 13:32	09/09/2004 09:15
20409090310	SKGW07R1011 (DISS)	Water	09/07/2004 14:05	09/09/2004 09:15
20409090311	SKGW631011 (DISS)	Water	09/08/2004 10:15	09/09/2004 09:15
20409090312	SKGW63FD1011 (DISS)	Water	09/08/2004 11:05	09/09/2004 09:15
20409090313	SKGW591011 (DISS)	Water	09/08/2004 11:35	09/09/2004 09:15
20409090314	SKGW62A1011 (DISS)	Water	09/08/2004 11:55	09/09/2004 09:15
20409090315	SKGW641011 (DISS)	Water	09/08/2004 12:18	09/09/2004 09:15
20409090316	SKGW611011	Water	09/09/2004 10:58	09/10/2004 09:05
20409090317	SKGW61MS1011	Water	09/09/2004 11:20	09/10/2004 09:05
20409090318	SKGW61MSD1011	Water	09/09/2004 11:40	09/10/2004 09:05
20409090319	SKGWEB1011	Water	09/09/2004 13:30	09/10/2004 09:05
20409090320	SKTB1011	Water	09/09/2004 00:00	09/10/2004 09:05
20409090321	SKGW61DUP1011	Water	09/09/2004 11:40	09/10/2004 09:05
20409090322	SKGW611011 (DISS)	Water	09/09/2004 10:58	09/10/2004 09:05
20409090323	SKGW61MS1011 (DISS)	Water	09/09/2004 11:20	09/10/2004 09:05
20409090324	SKGW61DUP1011 (DISS)	Water	09/09/2004 11:40	09/10/2004 09:05
20409090325	SKGWEB1011 (DISS)	Water	09/09/2004 13:30	09/10/2004 09:05

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW06R1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20409090301

Level: (low/med) Lab File ID: 2040911/T6130

% Moisture: not dec. Date Collected: 09/07/04 Time: 1332

GC Column: DB-624-30M ID: .53 (mm) Date Received: 09/09/04

Instrument ID: MSV0 Date Analyzed: 09/11/04 Time: 1843

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 279882

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	0.34	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	0.23	J	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	0.15	J	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	0.14	J	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 1 VOA

12/9/04 MSL

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW06R1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20409090301

Level: (low/med) Lab File ID: 2040911/T6130

% Moisture: not dec. Date Collected: 09/07/04 Time: 1332

GC Column: DB-624-30M ID: .53 (mm) Date Received: 09/09/04

Instrument ID: MSV0 Date Analyzed: 09/11/04 Time: 1843

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 279882

CONCENTRATION UNITS: ug/L Analytical Method: OLCO 2.1

CAS NO.	COMPOUND	RESULT	Q	MDL	RL	
127-18-4	Tetrachloroethene	0.17	J	0.010	1.0	
108-88-3	Toluene	0.45	J	0.010	1.0	J
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)	0.33	J	0.010	1.0	

12/9/04
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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW06R1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No SDG No.: 204090903

Matrix: Water Lab Sample ID: 20409090301

Sample wt/vol: Units: Lab File ID: 2040911/T6130

Level: (low/med) Date Collected: 09/07/04 Time: 1332

% Moisture: not dec. Date Received: 09/09/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 09/11/04 Time: 1843

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 10

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	75-28-5	Isobutane	2.281	2.57	
2.	95-36-3	1,2,4-Trimethylbenzene	10.056	.274	
3.	106-97-8	Butane	2.452	2.94	
4.	78-78-4	Butane, 2-methyl-	3.067	1.68	
5.	109-66-0	Pentane	3.377	1.04	
6.	107-83-5	Pentane, 2-methyl-	4.381	.715	
7.	96-14-0	Pentane, 3-methyl-	4.626	.396	
8.	96-37-7	Cyclopentane, methyl-	5.452	.43	
9.	110-82-7	Cyclohexane	6.013	.486	
10.	108-87-2	Cyclohexane, methyl-	6.905	.702	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW07R1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil/water) Water

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

Lab Sample ID: 20409090302

Level: (low/med)

Lab File ID: 2040911/T6131

% Moisture: not dec.

Date Collected: 09/07/04 Time: 1405

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

Date Received: 09/09/04

Instrument ID: MSV0

Date Analyzed: 09/11/04 Time: 1905

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 279882

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 ~~0.080~~	J B	0.010	2.0	U
100-42-5	Styrene	1.0	U	0.010	1.0	

12/9/04 MS

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW07R1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20409090302

Level: (low/med) Lab File ID: 2040911/T6131

% Moisture: not dec. Date Collected: 09/07/04 Time: 1405

GC Column: DB-624-30M ID: .53 (mm) Date Received: 09/09/04

Instrument ID: MSV0 Date Analyzed: 09/11/04 Time: 1905

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 279882

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.
SKGW07R1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: Water Lab Sample ID: 20409090302

Sample wt/vol: Units: Lab File ID: 2040911/T6131

Level: (low/med) Date Collected: 09/07/04 Time: 1405

% Moisture: not dec. Date Received: 09/09/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 09/11/04 Time: 1905

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	1823-52-5	2-Oxetanone, 4,4-dimethyl-	2.441	.657	

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW631011

Lab Name: GCAL Contract

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20409090303

Level: (low/med) Lab File ID: 2040911/T6132

% Moisture: not dec. Date Collected: 09/08/04 Time: 1015

GC Column: DB-624-30M ID: .53 (mm) Date Received: 09/09/04

Instrument ID: MSV0 Date Analyzed: 09/11/04 Time: 1927

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

Soil Aliquot Volume: (µL) Prep Batch Analytical Batch: 279882

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 ~~1.5~~	J	0.010	5.0	ut R
71-43-2	Benzene	0.027	J	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	0.075	J	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	0.022	J	0.010	1.0	
75-09-2	Methylene chloride	1.0 ~~0.085~~	J B	0.010	2.0	U
100-42-5	Styrene	1.0	U	0.010	1.0	

12/9/04 MS

FORM VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW631011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil/water) Water

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

Lab Sample ID: 20409090303

Level: (low/med)

Lab File ID: 2040911/T6132

% Moisture: not dec.

Date Collected: 09/08/04 Time: 1015

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

Date Received: 09/09/04

Instrument ID: MSV0

Date Analyzed: 09/11/04 Time: 1927

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 279882

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)	0.037	J	0.010	1.0

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW631011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: Water Lab Sample ID: 20409090303

Sample wt/vol: Units: Lab File ID: 2040911/T6132

Level: (low/med) Date Collected: 09/08/04 Time: 1015

% Moisture: not dec. Date Received: 09/09/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 09/11/04 Time: 1927

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	60-29-7	Ether	3.685	1.95	

FORM I VOA-TIC

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW63FD1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil/water) Water

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

Lab Sample ID: 20409090304

Level: (low/med)

Lab File ID: 2040911/T6133

% Moisture: not dec.

Date Collected: 09/08/04 Time: 1105

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

Date Received: 09/09/04

Instrument ID: MSV0

Date Analyzed: 09/11/04 Time: 1948

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 279882

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	0.015	J	0.010	1.0	
75-09-2	Methylene chloride	2.0 ~~0.076~~	J B	0.010	2.0	U
100-42-5	Styrene	1.0	U	0.010	1.0	

FORM I VOA

12/9/04 MS

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW63FD1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20409090304

Level (low/med) Lab File ID: 2040911/T6133

% Moisture: not dec. Date Collected: 09/08/04 Time: 1105

GC Column: DB-624-30M ID: .53 (mm) Date Received: 09/09/04

Instrument ID: MSV0 Date Analyzed: 09/11/04 Time: 1948

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

Soil Aliquot Volume: (µL) Prep Batch Analytical Batch: 279882

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)	0.023	J	0.010	1.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW63FD1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: Water Lab Sample ID: 20409090304

Sample wt/vol: Units: Lab File ID: 2040911/T6133

Level: (low/med) Date Collected: 09/08/04 Time: 1105

% Moisture: not dec. Date Received: 09/09/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 09/11/04 Time: 1948

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	60-29-7	Ether	3.688	1.66	

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW591011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20409090305

Level: (low/med) Lab File ID: 2040911/T6134

% Moisture: not dec. Date Collected: 09/08/04 Time: 1135

GC Column: DB-624-30M ID: .53 (mm) Date Received: 09/09/04

Instrument ID: MSV0 Date Analyzed: 09/11/04 Time: 2010

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 279882

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	0.098	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 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	0.016	J	0.010	1.0
75-09-2	Methylene chloride	2.0 ~~0.082~~	J 3	0.010	2.0 U
100-42-5	Styrene	1.0	U	0.010	1.0

FORM VOA

11/9/04 MSO

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW591011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20409090305

Level: (low/med) Lab File ID: 2040911/T6134

% Moisture: not dec. Date Collected: 09/08/04 Time: 1135

GC Column: DB-624-30M ID: .53 (mm) Date Received: 09/09/04

Instrument ID: MSV0 Date Analyzed: 09/11/04 Time: 2010

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 279882

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

1F

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW591011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No. SDG No.: 204090903

Matrix: Water Lab Sample ID: 20409090305

Sample wt/vol: Units: Lab File ID: 2040911/T6134

Level: (low/med) Date Collected: 09/08/04 Time: 1135

% Moisture: not dec. Date Received: 09/09/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 09/11/04 Time: 2010

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	1823-52-5	2-Oxetanone, 4,4-dimethyl-	2.443	.476	

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW62A1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20409090306

Level: (low/med) Lab File ID: 2040911/T6135

% Moisture: not dec. Date Collected: 09/08/04 Time: 1155

GC Column: DB-624-30M ID: .53 (mm) Date Received: 09/09/04

Instrument ID: MSV0 Date Analyzed: 09/11/04 Time: 2031

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 279882

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	0.035	J	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	0.019	J	0.010	1.0	
75-09-2	Methylene chloride	2.0 ~~0.065~~	JB	0.010	2.0	U
100-42-5	Styrene	1.0	U	0.010	1.0	

12/9/04 MR

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW62A1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No. SDG No.: 204090903

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20409090306

Level: (low/med) Lab File ID: 2040911/T6135

% Moisture: not dec. Date Collected: 09/08/04 Time: 1155

GC Column: DB-624-30M ID: .53 (mm) Date Received: 09/09/04

Instrument ID: MSV0 Date Analyzed: 09/11/04 Time: 2031

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 279882

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)	0.039	J	0.010	1.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW62A1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: Water Lab Sample ID: 20409090306

Sample wt/vol: Units: Lab File ID: 2040911/T6135

Level: (low/med) Date Collected: 09/08/04 Time: 1155

% Moisture: not dec. Date Received: 09/09/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 09/11/04 Time: 2031

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	1823-52-5	2-Oxetanone, 4,4-dimethyl-	2.442	.625	

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW641011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20409090307

Level: (low/med) Lab File ID: 2040911/T6136

% Moisture: not dec. Date Collected: 09/08/04 Time: 1218

GC Column: DB-624-30M ID: 53 (mm) Date Received: 09/09/04

Instrument ID: MSV0 Date Analyzed: 09/11/04 Time: 2053

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 279882

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 ~~0.071~~	J B	0.010	2.0	U
100-42-5	Styrene	1.0	U	0.010	1.0	

FORM I VOA

12/9/04 mw

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW641011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil/water) Water

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

Lab Sample ID: 20409090307

Level: (low/med)

Lab File ID: 2040911/T6136

% Moisture: not dec.

Date Collected: 09/08/04 Time: 1218

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

Date Received: 09/09/04

Instrument ID: MSV0

Date Analyzed: 09/11/04 Time: 2053

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 279882

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

TE

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW641011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: Water Lab Sample ID: 20409090307

Sample wt/vol: Units: Lab File ID: 2040911/T6136

Level: (low/med) Date Collected: 09/08/04 Time: 1218

% Moisture: not dec. Date Received: 09/09/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 09/11/04 Time: 2053

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 3

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	1823-52-5	2-Oxetanone, 4,4-dimethyl-	2.437	.608	
2.	60-29-7	Ether	3.692	.305	
3.	108-20-3	Diisopropyl ether	5.145	.437	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKTB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil/water) Water

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

Lab Sample ID: 20409090308

Level: (low/med)

Lab File ID: 2040911/T6129

% Moisture: not dec.

Date Collected: 09/08/04 Time: 0000

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

Date Received: 09/09/04

Instrument ID: MSV0

Date Analyzed: 09/11/04 Time: 1822

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 279882

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	2.5	J	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	3.5	J	0.010	5.0	J
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 ~~0.68~~	J B	0.010	2.0	U
100-42-5	Styrene	0.040	J	0.010	1.0	

12/9/04 MK

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKTB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20409090308

Level: (low/med) Lab File ID: 2040911/T6129

% Moisture: not dec. Date Collected: 09/08/04 Time: 0000

GC Column: DB-624-30M ID: .53 (mm) Date Received: 09/09/04

Instrument ID: MSV0 Date Analyzed: 09/11/04 Time: 1822

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 279882

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.
SKTB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: Water Lab Sample ID: 20409090308

Sample wt/vol: Units: Lab File ID: 2040911/T6129

Level: (low/med) Date Collected: 09/08/04 Time: 0000

% Moisture: not dec. Date Received: 09/09/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 09/11/04 Time: 1822

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	115-11-7	1-Propene, 2-methyl-	2.434	.46	

1.	115-11-7	1-Propene, 2-methyl-	2.434	.46	

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW611011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix (soil/water) Water

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

Lab Sample ID: 20409090316

Level: (low/med)

Lab File ID: 2040911/T6123

% Moisture: not dec.

Date Collected: 09/09/04 Time: 1058

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

Date Received: 09/10/04

Instrument ID: MSV0

Date Analyzed: 09/11/04 Time: 1607

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 279882

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	0.43	J	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

12/9/04

FORM 1 VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGW611011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil/water) Water

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

Lab Sample ID: 20409090316

Level: (low/med)

Lab File ID: 2040911/T6123

% Moisture: not dec.

Date Collected: 09/09/04 Time: 1058

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

Date Received: 09/10/04

Instrument ID: MSV0

Date Analyzed: 09/11/04 Time: 1607

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 279882

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.
SKGW611011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No. SDG No.: 204090903

Matrix: Water Lab Sample ID: 20409090316

Sample wt/vol: Units: Lab File ID: 2040911/T6123

Level: (low/med) Date Collected: 09/09/04 Time: 1058

% Moisture: not dec. Date Received: 09/10/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 09/11/04 Time: 1607

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	1823-52-5	2-Oxetanone, 4,4-dimethyl-	2.434	.537	

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGWEB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20409090319

Level: (low/med) Lab File ID: 2040911/T6137

% Moisture: not dec. Date Collected: 09/09/04 Time: 1330

GC Column: DB-624-30M ID: .53 (mm) Date Received: 09/10/04

Instrument ID: MSV0 Date Analyzed: 09/11/04 Time: 2115

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 279882

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 ~~2.5~~	J	0.010	5.0	I 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 ~~0.41~~	J B	0.010	2.0	U
100-42-5	Styrene	1.0	U	0.010	1.0	

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FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKGWEB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No. SDG No.: 204090903

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20409090319

Level: (low/med) Lab File ID: 2040911/T6137

% Moisture: not dec. Date Collected: 09/09/04 Time: 1330

GC Column: DB-624-30M ID: .53 (mm) Date Received: 09/10/04

Instrument ID: MSV0 Date Analyzed: 09/11/04 Time: 2115

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 279882

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	0.20	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)	0.064	J	0.010	1.0

FORM 1 VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGWEB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: Water Lab Sample ID: 20409090319

Sample wt/vol: Units: Lab File ID: 2040911/T6137

Level: (low/med) Date Collected: 09/09/04 Time: 1330

% Moisture: not dec. Date Received: 09/10/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 09/11/04 Time: 2115

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q	
1.	115-11-7	1-Propene, 2-methyl-	2.44	.432		u

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FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKTB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20409090320

Level: (low/med) Lab File ID: 2040912/T6150

% Moisture: not dec. Date Collected: 09/09/04 Time: 0000

GC Column: DB-624-30M ID: .53 (mm) Date Received: 09/10/04

Instrument ID: MSV0 Date Analyzed: 09/12/04 Time: 1104

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 279896

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	2.7	J	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	2.6 0.91	J B	0.010	2.0 u
100-42-5	Styrene	1.0	U	0.010	1.0

FORM I VOA

12/7/04

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKTB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20409090320

Level: (low/med) Lab File ID: 2040912/T6150

% Moisture: not dec. Date Collected: 09/09/04 Time: 0000

GC Column: DB-624-30M ID: .53 (mm) Date Received: 09/10/04

Instrument ID: MSV0 Date Analyzed: 09/12/04 Time: 1104

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 279896

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.
SKTB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: Water Lab Sample ID: 20409090320

Sample wt/vol: Units: Lab File ID: 2040912/T6150

Level: (low/med) Date Collected: 09/09/04 Time: 0000

% Moisture: not dec. Date Received: 09/10/04

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 09/12/04 Time: 1104

Instrument ID: MSV0 Dilution Factor: 1 Analyst: MEF

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	115-11-7	1-Propene, 2-methyl-	2.433	.447	

1.	115-11-7	1-Propene, 2-methyl-	2.433	.447	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204090903

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: SKGW06R1011

Contract:

Lab File ID: 2040922/B2503

Lab Sample ID: 20409090301

Date Collected: 09/07/04 Time: 1332

Date Received: 09/09/04

Date Extracted: 9/13/04

Date Analyzed: 09/22/04 Time: 1436

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 279905 Analytical Batch: 280471

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	
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 ~~1.42~~	JB	0.010	10.0	U

12/9/04 MSL

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204090903
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: SKGW06R1011
Contract:
Lab File ID: 2040922/B2503
Lab Sample ID: 20409090301
Date Collected: 09/07/04 Time: 1332
Date Received: 09/09/04
Date Extracted: 9/13/04
Date Analyzed: 09/22/04 Time: 1436
Dilution Factor: 1 Analyst: JAR3
Prep Method: 3520
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 279905 Analytical Batch: 280471

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 ~~0.630~~	JB	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

10/8/04 MK

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL

Lab Code: LA024 2 Case No.:

SAS No.: SDG No.: 204090903

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: SKGW06R1011

Contract:

Lab File ID: 2040922/B2503

Lab Sample ID: 20409090301

Date Collected: 09/07/04 Time: 1332

Date Received: 09/09/04

Date Extracted: 9/13/04

Date Analyzed: 09/22/04 Time: 1436

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: SW-846 8270C

Instrument ID: MSSV3

Number TICs Found : 2

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	115-28-6	Bicyclo[2.2.1]hept-5-ene-2,3-d	5.444	8.62	
2.		Unknown	6.165	35	

121 9/04
MSK

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No:
SAS No.: SDG No: 204090903
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: SKGW07R1011
Contract:
Lab File ID: 2040927/B2639
Lab Sample ID: 20409090302
Date Collected: 09/07/04 Time: 1405
Date Received: 09/09/04
Date Extracted: 9/13/04
Date Analyzed: 09/27/04 Time: 2110
Dilution Factor: 1 Analyst: JAR3
Prep Method: 3520
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 279905 Analytical Batch: 280627

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	
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

12/9/04 msd

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204090903

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: SKGW07R1011

Contract:

Lab File ID: 2040927/B2639

Lab Sample ID: 20409090302

Date Collected: 09/07/04 Time: 1405

Date Received: 09/09/04

Date Extracted: 9/13/04

Date Analyzed: 09/27/04 Time: 2110

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 279905 Analytical Batch: 280627

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 ~~0.766~~	J B	0.010	10.0	U
117-84-0	Di-n-octylphthalate	10.0	U	0.010	10.0	UJ
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	

12/3/04
MRW

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204090903
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: SKGW07R1011
Contract:
Lab File ID: 2040927/B2639
Lab Sample ID: 20409090302
Date Collected: 09/07/04 Time: 1405
Date Received: 09/09/04
Date Extracted: 9/13/04
Date Analyzed: 09/27/04 Time: 2110
Dilution Factor: 1 Analyst: JAR3
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	7.45	7.88	

12/9/04
MCL

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204090903

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: SKGW631011

Contract:

Lab File ID: 2040922/B2505

Lab Sample ID: 20409090303

Date Collected: 09/08/04 Time: 1015

Date Received: 09/09/04

Date Extracted: 9/13/04

Date Analyzed: 09/22/04 Time: 1521

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 279905 Analytical Batch: 280471

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	
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 ~~1.00~~	J B	0.010	10.0	u

12/9/04 MSR

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204090903
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: SKGW631011
Contract:
Lab File ID: 2040922/B2505
Lab Sample ID: 20409090303
Date Collected: 09/08/04 Time: 1015
Date Received: 09/09/04
Date Extracted: 9/13/04
Date Analyzed: 09/22/04 Time: 1521
Dilution Factor: 1 Analyst: JAR3
Prep Method: 3510
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 279905 Analytical Batch: 280471

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 ~~606~~	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

12/9/04 nsm

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204090903
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 SKGW631011
Contract:
Lab File ID: 2040922/B2505
Lab Sample ID: 20409090303
Date Collected: 09/08/04 Time: 1015
Date Received: 09/09/04
Date Extracted: 9/13/04
Date Analyzed: 09/22/04 Time: 1521
Dilution Factor: 1 Analyst: JAR3
Prep Method: 3520
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 2

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	
1.		Unknown	6.17	18.2	
2.		Unknown	7.479	15.3	

12/9/04
MSL

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No
SAS No.: SDG No.: 204090903
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: SKGW/63FD1011
Contract
Lab File ID: 2040922/B2506
Lab Sample ID: 20409090304
Date Collected: 09/08/04 Time: 1105
Date Received: 09/09/04
Date Extracted: 9/13/04
Date Analyzed: 09/22/04 Time: 1539
Dilution Factor: 1 Analyst: JAR3
Prep Method: 3510
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 279905 Analytical Batch: 280471

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	
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 ~~0.872~~	J B	0.010	10.0	U

12/9/04
mst

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204090903

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: SKGW63FD1011

Contract:

Lab File ID: 2040922/B2506

Lab Sample ID: 20409090304

Date Collected: 09/08/04 Time: 1105

Date Received: 09/09/04

Date Extracted: 9/13/04

Date Analyzed: 09/22/04 Time: 1539

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 279905 Analytical Batch: 280471

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 ~~0.540~~	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

12/5/04 MSK

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No
SAS No.: SDG No.: 204090903
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: SKGW63FD1011
Contract:
Lab File ID: 2040922/B2506
Lab Sample ID: 20409090304
Date Collected: 09/08/04 Time: 1105
Date Received: 09/09/04
Date Extracted: 9/13/04
Date Analyzed: 09/22/04 Time: 1539
Dilution Factor: 1 Analyst: JAR3
Prep Method: 3520
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found: 2

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	
1.		Unknown	6.165	20.2	
2.	301-02-0	9-Octadecenamide, (Z)-	7.47	7.19	

12/9/04
MSR

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204090903

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: SKGW591011

Contract:

Lab File ID: 2040922/B2507

Lab Sample ID: 20409090305

Date Collected: 09/08/04 Time: 1135

Date Received: 09/09/04

Date Extracted: 9/13/04

Date Analyzed: 09/22/04 Time: 1557

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 279905 Analytical Batch: 280471

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	
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 ~~2.35~~	J B	0.010	10.0	U

12/9/04
MSK

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204090903

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: SKGW591011

Contract:

Lab File ID: 2040922/B2507

Lab Sample ID: 20409090305

Date Collected: 09/08/04 Time: 1135

Date Received: 09/09/04

Date Extracted: 9/13/04

Date Analyzed: 09/22/04 Time: 1557

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 279905 Analytical Batch: 280471

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 ~~0.732~~	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

12/9/04 pa

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.: 204090903

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 SKGW591011

Contract:

Lab File ID: 2040922/B2507

Lab Sample ID: 20409090305

Date Collected: 09/08/04 Time: 1135

Date Received: 09/09/04

Date Extracted: 9/13/04

Date Analyzed: 09/22/04 Time: 1557

Dilution Factor: 1 Analyst: JAR3

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	6.21	246	

12/9/04
[illegible]

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No:

SAS No.: SDG No.: 204090903

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: SKGW62A1011

Contract:

Lab File ID: 2040922/B2508

Lab Sample ID: 20409090306

Date Collected: 09/08/04 Time: 1155

Date Received: 09/09/04

Date Extracted: 9/13/04

Date Analyzed: 09/22/04 Time: 1615

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 279905 Analytical Batch: 280471

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	
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 ~~13~~	JB	0.010	10.0	U

12/9/04

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204090903

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: SKGW62A1011

Contract:

Lab File ID: 2040922/B2508

Lab Sample ID: 20409090306

Date Collected: 09/08/04 Time: 1155

Date Received: 09/09/04

Date Extracted: 09/13/04

Date Analyzed: 09/22/04 Time: 1615

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 279905 Analytical Batch: 280471

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	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

12/9/04
MSR

FORM I SV-1

SEMIVOLATILE ORGANIC ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No
SAS No.: SDG No.: 204090903
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: SKGW62A1011
Contract:
Lab File ID: 2040922/B2508
Lab Sample ID: 20409090306
Date Collected: 09/08/04 Time: 1155
Date Received: 09/09/04
Date Extracted: 9/13/04
Date Analyzed: 09/22/04 Time: 1615
Dilution Factor: 1 Analyst: JAR3
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	6.17	39.3	

12/9/04
mg

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204090903

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: SKGW641011

Contract:

Lab File ID: 2040922/B2509

Lab Sample ID: 20409090307

Date Collected: 09/08/04 Time: 1218

Date Received: 09/09/04

Date Extracted: 9/13/04.

Date Analyzed: 09/22/04 Time: 1633

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 279905 Analytical Batch: 280471

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	
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	~~0.0352~~ 10.0	J B	0.010	10.0	U

12/9/04
MSK

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.

SAS No.: SDG No.: 204090903

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: SKGW641011

Contract:

Lab File ID: 2040922/B2509

Lab Sample ID: 20409090307

Date Collected: 09/08/04 Time: 1218

Date Received: 09/09/04

Date Extracted: 9/13/04

Date Analyzed: 09/22/04 Time: 1633

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 279905 Analytical Batch: 280471

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	~~0.561~~	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

12/8/04

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.: 204090903

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 SKGW641011

Contract:

Lab File ID: 2040922/B2509

Lab Sample ID: 20409090307

Date Collected: 09/08/04 Time: 1218

Date Received: 09/09/04

Date Extracted: 9/13/04

Date Analyzed: 09/22/04 Time: 1633

Dilution Factor: 1 Analyst: JAR3

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	6.221	320	

12/9/04
MSW

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204090903
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: SKGW611011
Contract:
Lab File ID: 2040922/B2510
Lab Sample ID: 20409090316
Date Collected: 09/09/04 Time: 1058
Date Received: 09/10/04
Date Extracted: 9/13/04
Date Analyzed: 09/22/04 Time: 1651
Dilution Factor: 1 Analyst: JAR3
Prep Method: 3520
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 279905 Analytical Batch: 280471

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	
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	0.893	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	10.0 ~~5.04~~	J B	0.010	10.0	U

12/5/04
[illegible]

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204090903

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: SKGW611011

Contract:

Lab File ID: 2040922/B2510

Lab Sample ID: 20409090316

Date Collected: 09/09/04 Time: 1058

Date Received: 09/10/04

Date Extracted: 9/13/04

Date Analyzed: 09/22/04 Time: 1651

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 279905 Analytical Batch: 280471

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	~~0.00743~~ 10.0	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

12/3/04

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No
SAS No.: SDG No.: 204090903
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: SKGW611011
Contract:
Lab File ID: 2040922/B2510
Lab Sample ID: 20409090316
Date Collected: 09/09/04 Time: 1058
Date Received: 09/10/04
Date Extracted: 9/13/04
Date Analyzed: 09/22/04 Time: 1651
Dilution Factor: 1 Analyst: JAR3
Prep Method: 3520
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found: 2

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	
1.	115-28-6	Bicyclo[2.2.1]hept-5-ene-2,3-d	5.446	9.77	
2.		Unknown	6.162	9.22	

12/9/04
MSC

FORM I SV-TIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204090903

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: SKGWEB1011

Contract:

Lab File ID: 2040922/B2513

Lab Sample ID: 20409090319

Date Collected: 09/09/04 Time: 1330

Date Received: 09/10/04

Date Extracted: 9/13/04

Date Analyzed: 09/22/04 Time: 1745

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 279905 Analytical Batch: 280471

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	
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 ~~1.34~~	J B	0.010	10.0	u

12/9/04 msc

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
SAS No.: SDG No.: 204090903
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: SKGWEB1011
Contract:
Lab File ID: 2040922/B2513
Lab Sample ID: 20409090319
Date Collected: 09/09/04 Time: 1330
Date Received: 09/10/04
Date Extracted: 9/13/04
Date Analyzed: 09/22/04 Time: 1745
Dilution Factor: 1 Analyst: JAR3
Prep Method: 3520
Analytical Method: OLMO 4.2
Instrument ID: MSSV3
Prep Batch: 279905 Analytical Batch: 280471

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	~~10.00-840~~	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

12/8/04
MSE

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.: 204090903

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 SKGWEB1011

Contract:

Lab File ID: 2040922/B2513

Lab Sample ID: 20409090319

Date Collected: 09/09/04 Time: 1330

Date Received: 09/10/04

Date Extracted: 9/13/04

Date Analyzed: 09/22/04 Time: 1745

Dilution Factor: 1 Analyst: JAR3

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	5.237	8.79	

12/9/04
MSW

FORM I SV-TIC

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: 279904 Analytical Batch: 280887

Sample ID: SKGW06R1011
Contract:
SAS No.: SDG No.: 204090903
Lab Sample ID: 20409090301
Date Collected: 09/07/04 Time: 1332
Date Received: 09/09/04
Date Extracted: 09/13/04
Date Analyzed: 10/03/04 Time: 0539
Dilution Factor: 1 Analyst: DLB
Prep Method: 3510
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A
Lab File ID: 2041002/SV3028

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	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	
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	UJ
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	UJ
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	
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	
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	

12/10/04
mc

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: 279904 Analytical Batch: 280887

Sample ID: SKGW07R1011

Contract:

SAS No.: SDG No.: 204090903

Lab Sample ID: 20409090302

Date Collected: 09/07/04 Time: 1405

Date Received: 09/09/04

Date Extracted: 09/13/04

Date Analyzed: 10/03/04 Time: 0746

Dilution Factor: 1 Analyst: DLB

Prep Method: 3510

Analytical Method: OLMO 4.2

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

CONCENTRATION UNITS: ug/L

Lab File ID: 2041002/SV3032

CAS NO.	COMPOUND	RESULT	Q	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	
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	UJ
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	UJ
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	
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	
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	

12/1 of 54
MSC

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: 279904 Analytical Batch: 280887

Sample ID: SKGW631011
Contract
SAS No.: SDG No.: 204090903
Lab Sample ID: 20409090303
Date Collected: 09/08/04 Time: 1015
Date Received: 09/09/04
Date Extracted: 09/13/04
Date Analyzed: 10/03/04 Time: 0815
Dilution Factor: 1 Analyst: DLB
Prep Method: 3510
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A

CONCENTRATION UNITS: ug/L
Lab File ID: 2041002/SV3033

CAS NO.	COMPOUND	RESULT	Q	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	
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	UJ
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	UJ
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	
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	
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	

12/13/04 MSC

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: 279904 Analytical Batch: 280887

CONCENTRATION UNITS: ug/L

Sample ID: SKGW63FD1011

Contract:

SAS No.: SDG No.: 204090903

Lab Sample ID: 20409090304

Date Collected: 09/08/04 Time: 1105

Date Received: 09/09/04

Date Extracted: 09/13/04

Date Analyzed: 10/03/04 Time: 0845

Dilution Factor: 1 Analyst: DLB

Prep Method: 3510

Analytical Method: OLMO 4.2

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

Lab File ID: 2041002/SV3034

CAS NO.	COMPOUND	RESULT	Q	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	
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	UJ
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	UJ
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	
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	
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	

12/10/04 MT

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: 279904 Analytical Batch: 280887

Sample ID: SKGW591011
Contract:
SAS No.: SDG No.: 204090903
Lab Sample ID: 20409090305
Date Collected: 09/08/04 Time: 1135
Date Received: 09/09/04
Date Extracted: 09/13/04
Date Analyzed: 10/03/04 Time: 0915
Dilution Factor: 1 Analyst: DLB
Prep Method: 3510
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A
Lab File ID: 2041002/SV3035

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	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	
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	UJ
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	UJ
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	
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	
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	

12/10/04

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: 279904 Analytical Batch: 280887

Sample ID: SKGW62A1011

Contract:

SAS No.: SDG No.: 204090903

Lab Sample ID: 20409090306

Date Collected: 09/08/04 Time: 1155

Date Received: 09/09/04

Date Extracted: 09/13/04

Date Analyzed: 10/03/04 Time: 0944

Dilution Factor: 1 Analyst: DLB

Prep Method: 3510

Analytical Method: OLMO 4.2

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

CONCENTRATION UNITS: ug/L

Lab File ID: 2041002/SV3036

CAS NO.	COMPOUND	RESULT	Q	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	
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	UJ
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	UJ
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	
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	
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	

12/10/04 MSK

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: SKGW641011
Lab Code: LA024 Case No.:
Contract
Matrix: Water
SAS No.: SDG No.: 204090903
Sample wt/vol: 1000 Units: mL
Lab Sample ID: 20409090307
Level: (low/med)
Date Collected: 09/08/04 Time: 1218
% Moisture: decanted (Y/N)
Date Received: 09/09/04
GC Column: DB1701-30M ID: .53 (mm)
Date Extracted: 09/13/04
Concentrated Extract Volume: 1000 (µL)
Date Analyzed: 10/03/04 Time: 1014
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: 279904 Analytical Batch: 280887
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A
CONCENTRATION UNITS: ug/L
Lab File ID 2041002/SV3037

CAS NO.	COMPOUND	RESULT	Q	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	
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	UJ
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	UJ
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	
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	
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	

12/1/04
mt

1D

ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: SKGW611011
Lab Code: LA024 Case No.:
Contract:
Matrix: Water
SAS No.: SDG No.: 204090903
Sample wt/vol: 1000 Units: mL
Lab Sample ID: 20409090316
Level: (low/med)
Date Collected: 09/09/04 Time: 1058
% Moisture: decanted: (Y/N)
Date Received: 09/10/04
GC Column: DB1701-30M ID: .53 (mm)
Date Extracted: 09/13/04
Concentrated Extract Volume: 1000 (µL)
Date Analyzed: 10/03/04 Time: 1043
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: 279904 Analytical Batch: 280887
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A

CONCENTRATION UNITS: ug/L

Lab File ID: 2041002/SV3038

CAS NO.	COMPOUND	RESULT	Q	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	
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	UJ
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	UJ
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	
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	
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	

12/10/04 MSL

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: 279904 Analytical Batch: 280887

Sample ID: SKGWEB1011
Contract:
SAS No.: SDG No.: 204090903
Lab Sample ID: 20409090319
Date Collected: 09/09/04 Time: 1330
Date Received: 09/10/04
Date Extracted: 09/13/04
Date Analyzed: 10/03/04 Time: 1143
Dilution Factor: 1 Analyst: DLB
Prep Method: 351°
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS3A
Lab File ID: 2041002/SV3040

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	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	
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	UJ
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	UJ
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	
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	
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	

12/10/04

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

SOW No.:

EPA Sample No	*Lab Sample ID*
SKGW06R1011	20409090301
SKGW07R1011	20409090302
SKGW631011	20409090303
SKGW63FD1011	20409090304
SKGW591011	20409090305
SKGW62A1011	20409090306
SKGW641011	20409090307
SKGW06R1011 (DISS)	20409090309
SKGW07R1011 (DISS)	20409090310
SKGW631011 (DISS)	20409090311
SKGW63FD1011 (DISS)	20409090312
SKGW591011 (DISS)	20409090313
SKGW62A1011 (DISS)	20409090314
SKGW641011 (DISS)	20409090315
SKGW611011	20409090316

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:: 10-27-04 Title: Metals Supervisor

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract: _____

Lab Code: LA024 **Case No.:** _____ SAS No.: _____ **SDG No.:** 204090903

SOW No.: _____

EPA Sample No	*Lab Sample ID*
SKGW61MS1011	20409090317
SKGWEB1011	20409090319
SKGW61DUP1011	20409090321
SKGW611011 (DISS)	20409090322
SKGW61MS1011 (DISS)	20409090323
SKGW61DUP1011 (DISS)	20409090324
SKGWEB1011 (DISS)	20409090325

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: 10-27-04 Title: Metals Supervisor

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW06R1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090301

Level: (low / med) Date Received: 09/09/04

% 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	821			P	
7440-41-7	Beryllium	2.1	B		P	
7440-43-9	Cadmium	0.3	U		P	
7440-47-3	Chromium	58.5			P	
7440-50-8	Copper	97.2		*	P	J
7439-89-6	Iron	90600		✓	P	
7439-92-1	Lead	88.1		*	P	J
7439-97-6	Mercury	0.1	B		AV	
7440-02-0	Nickel	80.5			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	
7440-66-6	Zinc	283		*~~E~~	P	J
57-12-5	Cyanide	0.7	B		AS	

12/21/04 MSU

Color Before: BROWN Clarity Before: CLEAR Texture:

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW07R1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No: SAS No: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090302

Level: (low / med) Date Received: 09/09/04

% 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	N	P	
7440-39-3	Barium	469			P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-47-3	Chromium	13.4			P	
7440-50-8	Copper	15.3	B	*	P	J
7439-89-6	Iron	20200		*	P	
7439-92-1	Lead	11.4		*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	12.7	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.9	U		P	
7440-28-0	Thallium	7.0	B		P	
7440-66-6	Zinc	46.9		*E	P	J
57-12-5	Cyanide	0.7	B		AS	

12/21/04
MM

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.

SKGW631011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090303

Level: (low / med) Date Received: 09/09/04

% 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	279			P	
7440-41-7	Beryllium	1.4	B		P	
7440-43-9	Cadmium	0.3	U		P	
7440-47-3	Chromium	52.0			P	
7440-50-8	Copper	64.0		*	P	J
7439-89-6	Iron	84700		~~*~~	P	
7439-92-1	Lead	57.4		*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	83.3			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	
7440-66-6	Zinc	243		~~*~~	P	J
57-12-5	Cyanide	0.7	B		AS	

12/21/04
msc

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

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

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW63FD1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No. SDG No.: 204090903

Matrix (soil / water) Water Lab Sample ID: 20409090304

Level (low / med) Date Received: 09/09/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	11.7	B		P	
7440-38-2	Arsenic	5.4	U	N	P	
7440-39-3	Barium	256			P	
7440-41-7	Beryllium	1.2	B		P	
7440-43-9	Cadmium	0.3	U		P	
7440-47-3	Chromium	45.8			P	
7440-50-8	Copper	48.8		*	P	J
7439-89-6	Iron	77400			P	
7439-92-1	Lead	50.1		*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	72.5			P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.9	U		P	
7440-28-0	Thallium	9.2	B		P	
7440-66-6	Zinc	223		* E	P	J
57-12-5	Cyanide	0.8	B		AS	

12/21/04
PSL

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

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

Comments:

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U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW591011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090305

Level: (low / med) Date Received: 09/09/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	4.9	B		P	
7440-38-2	Arsenic	5.4	U	~~N~~	P	
7440-39-3	Barium	214			P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-47-3	Chromium	22.8			P	
7440-50-8	Copper	6.5	B	*	P	J
7439-89-6	Iron	14000		~~*~~	P	
7439-92-1	Lead	11.7		*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	19.0	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	
7440-66-6	Zinc	34.4		*~~E~~	P	J
57-12-5	Cyanide	0.5	B		AS	

12/21/04
msh

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

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

Comments:

U S EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW62A1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No SAS No: SDG No.: 204090903

Matrix (soil / water) Water Lab Sample ID: 20409090306

Level (low / med) Date Received: 09/09/04

% 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	237			P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-47-3	Chromium	17.8			P	
7440-50-8	Copper	9.6	B	*	P	I
7439-89-6	Iron	14200		*	P	
7439-92-1	Lead	16.8		*	P	I
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	12.3	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	
7440-66-6	Zinc	42.9		*E	P	I
57-12-5	Cyanide	0.6	B		AS	

12/21/04
mia

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.

SKGW641011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090307

Level: (low / med) Date Received: 09/09/04

% 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	59.8	B		P	
7440-41-7	Beryllium	0.3	B		P	
7440-43-9	Cadmium	0.3	U		P	
7440-47-3	Chromium	24.3			P	
7440-50-8	Copper	14.9	B	*	P	J
7439-89-6	Iron	34500			P	
7439-92-1	Lead	14.4		*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	32.3	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	
7440-66-6	Zinc	70.3		*E	P	J
57-12-5	Cyanide	1.2	B		AS	

12/21/04
min

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

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

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW06R1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No. SDG No.: 204090903

Matrix (soil / water) Water Lab Sample ID: 20409090309

Level: (low / med) Date Received: 09/09/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	10.6	B		P	
7440-38-2	Arsenic	5.4	U		P	
7440-39-3	Barium	329			P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-47-3	Chromium	3.7	B		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
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.2	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	2.5	B		P	
7440-28-0	Thallium	6.3	U		P	
7440-66-6	Zinc	0.7	U		P	

12/21/04
MSK

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.

SKGW07R1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090310

Level: (low / med) Date Received: 09/09/04

% 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	118	B		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-47-3	Chromium	3.3	B		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	B		P
7440-28-0	Thallium	6.3	U		P
7440-66-6	Zinc	0.7	U		P

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12/21/04
MSH

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.

SKGW631011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix (soil / water) Water Lab Sample ID: 20409090311

Level: (low / med) Date Received: 09/09/04

% 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		P
7440-39-3	Barium	50.6	B		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-47-3	Chromium	4.7	B		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	1150			P
7439-92-1	Lead	2.4	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	4.0	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.9	B		P
7440-28-0	Thallium	6.3	U		P
7440-66-6	Zinc	0.7	U		P

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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.

SKGW63FD1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090312

Level: (low / med) Date Received: 09/09/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	6.3	B		P
7440-38-2	Arsenic	5.4	U		P
7440-39-3	Barium	48.6	B		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-47-3	Chromium	4.9	B		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	1150			P
7439-92-1	Lead	2.4	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	3.8	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	1.1	B		P
7440-28-0	Thallium	6.3	U		P
7440-66-6	Zinc	0.7	U		P

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12/21/04
MSL

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.

SKGW591011 (DISS)

Lab Name: GCAL Contract

Lab Code: LA024 Case No.: SAS No SDG No.: 204090903

Matrix (soil / water) Water Lab Sample ID: 20409090313

Level (low / med) Date Received: 09/09/04

% 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	28.6	B		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-47-3	Chromium	4.4	B		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	1.2	B		P
7440-28-0	Thallium	6.3	U		P
7440-66-6	Zinc	0.7	U		P

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12/21/04
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.

SKGW62A1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090314

Level: (low / med) Date Received: 09/09/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	5.4	B		P
7440-38-2	Arsenic	5.4	U		P
7440-39-3	Barium	111	B		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-47-3	Chromium	4.5	B		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	1.6	B		P
7440-28-0	Thallium	6.3	U		P
7440-66-6	Zinc	0.7	U		P

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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.

SKGW641011 (DISS)

Lab Name: GCAL Contract

Lab Code: LA024 Case No SAS No SDG No.: 204090903

Matrix (soil / water) Water Lab Sample ID: 20409090315

Level (low / med) Date Received: 09/09/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	7.1	B		P
7440-38-2	Arsenic	5.4	U		P
7440-39-3	Barium	26.6	B		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-47-3	Chromium	6.0	B		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	2.8	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	1.1	B		P
7440-28-0	Thallium	6.3	U		P
7440-66-6	Zinc	0.7	U		P

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12/21/04
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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.

SKGW611011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090316

Level: (low / med) Date Received: 09/10/04

% 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	155	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-47-3	Chromium	15.0			P	
7440-50-8	Copper	12.6	B	*	P	J
7439-89-6	Iron	26200			P	
7439-92-1	Lead	10.3		*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	19.3	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	
7440-66-6	Zinc	56.9		*~~E~~	P	J
57-12-5	Cyanide	0.8	B		AS	

12/21/04
MSC

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

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

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW61MS1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090317

Level: (low / med) Date Received: 09/10/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	92.9			P	
7440-38-2	Arsenic	39.1		N	P	
7440-39-3	Barium	2290			P	
7440-41-7	Beryllium	53.5			P	
7440-43-9	Cadmium	51.3			P	
7440-47-3	Chromium	229			P	
7440-50-8	Copper	277		*	P	J
7439-89-6	Iron	28300			P	
7439-92-1	Lead	35.0		*	P	J
7439-97-6	Mercury	4.9			AV	
7440-02-0	Nickel	530			P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	51.6			P	
7440-28-0	Thallium	43.7			P	
7440-66-6	Zinc	593		*	P	J
57-12-5	Cyanide	85.8			AS	

12/21/04
MSN

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

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

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWEB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090319

Level: (low / med) Date Received: 09/10/04

% 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	1.2	U	*	P	J
7439-89-6	Iron	9.1	U	~~*~~	P	
7439-92-1	Lead	2.4	U	*	P	J
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	
7440-66-6	Zinc	0.7	U	~~*E~~	P	J
57-12-5	Cyanide	0.5	B		AS	

12/21/04
MSK

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

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

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW61DUP1011

Lab Name: GCAL Contract: _____

Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 204090903

Matrix (soil / water) Water Lab Sample ID: 20409090321

Level (low / med) _____ Date Received: 09/10/04

% 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	176	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-47-3	Chromium	18.7			P	
7440-50-8	Copper	71.8		*	P	J
7439-89-6	Iron	30100		*	P	
7439-92-1	Lead	14.6		*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	24.8	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	
7440-66-6	Zinc	110		* E	P	J
57-12-5	Cyanide	1.7	B		AS	

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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
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW611011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090322

Level: (low / med) Date Received: 09/10/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	7.5	B		P	
7440-38-2	Arsenic	5.4	U		P	
7440-39-3	Barium	65.0	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-47-3	Chromium	3.8	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	4410			P	
7439-92-1	Lead	2.4	U		P	UJ
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	4.0	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.9	U		P	
7440-28-0	Thallium	8.2	B		P	J
7440-66-6	Zinc	0.7	U		P	

12/21/04
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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.

SKGW61MS1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix (soil / water) Water Lab Sample ID: 20409090323

Level: (low / med) Date Received: 09/10/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	127			P	
7440-38-2	Arsenic	32.8			P	
7440-39-3	Barium	2170			P	
7440-41-7	Beryllium	53.0			P	
7440-43-9	Cadmium	50.5			P	
7440-47-3	Chromium	216			P	
7440-50-8	Copper	266			P	
7439-89-6	Iron	5580			P	
7439-92-1	Lead	17.2			P	J
7439-97-6	Mercury	4.4			AV	
7440-02-0	Nickel	511			P	
7782-49-2	Selenium	5.2		N	P	J
7440-22-4	Silver	56.1			P	
7440-28-0	Thallium	53.8			P	J
7440-66-6	Zinc	525			P	J

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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.

SKGW61DUP1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090324

Level: (low / med) Date Received: 09/10/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	15.5	B		P	
7440-38-2	Arsenic	5.4	U		P	
7440-39-3	Barium	64.5	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	1.2	U		P	
7439-89-6	Iron	4570			P	
7439-92-1	Lead	2.4	U		P	UJ
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	3.6	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	
7440-66-6	Zinc	0.7	U		P	

12/21/04
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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.

SKGWEB1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090325

Level: (low / med) Date Received: 09/10/04

% 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	0.2	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	UJ
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	UJ
7440-22-4	Silver	0.9	U		P	
7440-28-0	Thallium	6.3	U		P	
7440-66-6	Zinc	1.0	B		P	J

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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	4312	204090903	9/23/04

Report to:
Client: Earth Tech
Address: 200 Vine St
Wilder, KY 41076
Contact: Pat Higgins
Phone: 859-442-2380
Fax: 859-442-2311

Bill to:
Client:
Address: Bill to:
Contact: Glen Springs Contract
Phone:
Fax:

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill 3rd Qtr 04
Sampled By: Pat Higgins / Karen Bailey

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					Remarks:	Lab ID
W	9/8/04	1332		X	SKGW06R1011 -	HCL	3	X											Refer to	1
W	9/7/04	1405		X	SKGW07R1011 -	HCL	3	X											table 7 (TA)	2
W	9/8/04	1015		X	SKGW63 1011 -	HCL	3	X											and tables	3
W	9/8/04	1105		X	SKGW63FD1011 -	HCL	3	X											(TAC) of	4
W	9/8/04	1135		X	SKGW59 1011 -	HCL	3	X											the Final	5
W	9/8/04	1155		X	SKGW62A 1011	Various	10	X	X	X	X	X	X	X				14	O&M plan	6
W	9/8/04	1218		X	SKGW64 1011 -	HCL	3	X											for the	7
W	9/8/04			X	SKTB1011	HCL	3	X											list of analytes	8

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:
Pat Higgins	Fed ex	9/8/04	1700
Relinquished by: (Signature) Fedex 7927 7090 0306	Received by: (Signature)	Date: 9-9-04	Time: 915
Relinquished by: (Signature) 7919 2875 7587	Received by: (Signature)	Date:	Time:

Note: Sample sent via fed ex standard turnaround

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GAL.06 11/98

000751

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	2040909 03	9/23/04

Report to:
Client: Earth Tech
Address: 200 Vine Street
Wilder, KY 41076
Contact: Pat Higgins
Phone: 859 492-2300
Fax: 859 492-2311

Bill to:
Client:
Address: Bill to Glenn Springs Contract
Contact:
Phone:
Fax:

P.O. Number: 51280.01
Project Name/Number: Skinner Landfill-3 qtr. 2004
Sampled By: Pat Higgins / Karen Batey

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				Days	Remarks:	Lab ID
W	9/7/04	1332		X	SKGW06R1011	Various	7		X	X	X	X	X	X				9	Refer to Table 7 (TCL) and Table 8 (TAL) of the Final O&M Plan for the list of analytes	1
W	9/7/04	1405		X	SKGW07R1011	Various	7		X	X	X	X	X	X				10		2

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	FED EX	9/8/04	1700
Relinquished by: (Signature) FedEx# 7913334502 7	Received by: (Signature)	Date: 9/9/04	Time: 0915
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Samples sent via FEDEX - Standard Turnaround

By submitting these samples, you agree to the terms and conditions contained in ...

Lab use only:
Custody Seal used ☒ yes ☐ no
In tact ☒ yes ☐ no
Temperature °C 4

000752

WHITE: CLIENT FINAL REPORT

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only			
Earth Tech	4342	204090963	9/23/04
Client Name	Client #	Workorder #	Due Date

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

Bill to:
Client:
Address: Bill to:
Contact: Glenn Springs
Phone: Contract
Fax:

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill 3rd Qtr 04
Sampled By: Pat Higgens / Karen Batey

Analytical Requests & Method

Lab use only:
Custody Seal used ☑ yes ☐ no
in tact ☑ yes ☐ no 4
Temperature °C

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 9/9
W	9/8/04	1015		X	SLGW65 1011	Various	7		X	X	X	X	X	X				11	Refer to	3
W	9/8/04	1105		X	SLGW65 FD 1011	Various	7		X	X	X	X	X	X				12	table 7	4
																			(TCL) and	
																			Table 8 (TAC)	
																			of the Final	
																			O&M Plan	
																			for the list	
																			of analytes	

000753

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgens	Fed ex	9-8-04	1700
Fed Ex #792726090306	[signature]	9/9/04	0915

Note: Sample sent via fedex standard turnaround

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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	20409093	9/28/04

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: Bill to:
Contact: Glenn Springs
Phone: Contract
Fax:

P.O. Number: 57,280.01
Project Name/Number: Skinner Landfill 3rd Qtr 04
Sampled By: Pat Higgins / Karen Baty

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Semi-volatiles	Pesticides	PCBs	Total Metals	Dissolved metals	Cyanide						Lab ID
W	9/8/04	1135		X	SKGW59 1011	Various	16		X	X	X	X	X	X					13	
W	9/8/04	1218		X	SKGW64 1011	Various	7		X	X	X	X	X	X					15	

Lab use only:
Custody Seal used ☒ yes ☐ no
In tact ☒ yes ☐ no
Temperature °C 7

only 1 Pest/PCB per cent for GW-59 - low sample volume

Remarks: Refer to Table 17 (Tier 1) and Table 5 (TTAC) of the Final QAPP 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	Fedex	9-8-04	1700
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fedex 7907 5294 6830	[illegible]	9-9-04	915
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Sample sent via fedex - Standard turnaround

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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	204090903	9/24/04

Report to:
Client: Earth Tech
Address: 200 Vine St.
Wilder, KY 41076
Contact: Pat Higgens
Phone: 859-442-2300
Fax: 859-442-2311

Bill to:
Client:
Address: Bill to:
Contact: Glen Springs
Phone: contract
Fax:

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill 3rd Qtr 04
Sampled By: Pat Higgens / Karen Bailey

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	TSS			Remarks:	Lab ID
W	9/9/04	1058		X	SKGW61 1011	HCL	3	X							TRAVEL			Refer to	9/10 -16
↓	↓	1120		↓	SKGW61 MS 1011	↓	↓	↓										Table 7 (TCL)	17
		1140			SKGW61 MSD 1011	Various	10	X	X	X	X	X	X	X	24	dup-21		and Tables	MSD 18
		1350			SKGWEB 1011	Various	10	X	X	X	X	X	X	X	25			(TAL) of	19
↓	↓			↓	SKTB 1011	HCL	3	X										the Final	20
																		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:
Pat Higgens	Fed ex	9/9/04	1700
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
FedEx# 7907592570 91	[illegible]	9/10/04	0905
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Sample sent via fed ex standard turnaround

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000755

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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	204090603	9/21/04

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

Bill to:
Client:
Address: Bill to:
Contact: Glen Springs
Phone: Contract
Fax:

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill 3rd Qtr 04
Sampled By: Pat Higgens / Karen Bailey

Analytical Requests & Method

Lab use only:
Custody Seal used [X] yes [ ] no
In tact [X] 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	TSS	Lab ID
W	9/9/04	1058		X	SKGW61 1011	Various	7		X	X	X	X	X	X	22	16
↓	↓	1120		↓	SKGW61MS1011	↓	4		↓	↓	↓	↓	↓	↓	23	17

Remarks: Refer to Table 7 (TCL) and Table 8 (TAC) of the Final O&M plan for the list of analytes

Turn Around Time: [ ] 24-48 hrs. [ ] 3 days [ ] 1 week [X] Standard [ ] Other

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgens	FedEx	9/9/04	1700
Relinquished by: (Signature) FedEx #1920 8948 5128	Received by: (Signature)	9/10/04	0905
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Sample sent via fed ex Standard turnaround

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000756

WHITE: CLIENT FINAL REPORT YELLOW: LAB PINK: CLIENT

AL-06 11/98

DATA VALIDATION REPORT

FOR

SKINNER LANDFILL SITE

EARTH TECH: PROJECT NUMBER 54280

LABORATORY REPORT NUMBER 204092004

PROJECT MANAGER: Ron Rolker

Date: December 13, 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 204092004 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in September 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) 204092004.

GCAL #	Sample Description
20409200401	SKFB1011
20409200402	SKSW501011
20409200403	SKSW50MS1011
20409200405	SKSW50DUP1011
20409200406	SKSW511011
20409200407	SKSW521011
20409200408	SKSWEB1011
20409200410	SKFB1011 (DISS)
20409200411	SKSW501011 (DISS)
20409200412	SKSW50MS1011 (DISS)
20409200413	SKSW50DUP1011 (DISS)
20409200414	SKSW511011 (DISS)
20409200415	SKSW521011 (DISS)
20409200416	SKSWEB1011 (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. The laboratory to denote specific information regarding the analytical results uses various qualifier codes. 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 Selenium in the CCB's 9, 10, and 11 and Lead in the PB. 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 samples should have been re-digested and re-analyzed for Lead and Selenium. The Selenium results were rejected do to the 0% recovery associated with the matrix spike therefore further data qualification was not warranted.

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 SKSW501011 and SKSW501011 (dissolved) for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) with the exception of Arsenic (128%) and Selenium (0%) 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% 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

GCAL qualified the surface water results for Copper, Iron, Lead, and Zinc (all in total fraction) based on the RPD for duplicate samples from the groundwater duplicate. The RPD's were within the acceptance criteria for the surface water duplicate therefore the data validator crossed out the "*" qualifier associated with the Copper, Iron, Lead, and Zinc (total) results.

11. OVERALL ASSESSMENT

The percent recoveries for Lead in the Contract Required Detection Limit (CRDL) standards were 83.8%, 104.4%, 139.4%, 107.9%, 79.8%, and 114.7%.

The percent recoveries for Thallium in the Contract Required Detection Limit (CRDL) standards were 84.7%, 83.5%, 90.7%, 120.7%, 116%, and 81.0%.

The percent recoveries for Zinc in the Contract Required Detection Limit (CRDL) standards were 118%, 136%, 133%, 139%, 93.3%, and 89.0%.

If the CRDL is greater than 120% then detected results greater than the IDL but less than two times the CRDL are qualified as estimated with "J". If the CRDL is below 75% then detected results are qualified 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 204092004 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 September 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 204092004.

GCAL #	Sample Description
20409200401	SKFB1011
20409200402	SKSW501011
20409200403	SKSW50MS1011
20409200404	SKSW50MSD1011
20409200406	SKSW511011
20409200407	SKSW521011
20409200408	SKSWEB1011

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. The laboratory to denote specific information regarding the analytical results uses various data qualifier codes. 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 9/22/04 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 Hexachlorocyclopentadiene (38.2%). The lowest point of the calibration curve was dropped for Hexachlorocyclopentadiene and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Hexachlorocyclopentadiene 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 9/22/04 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC's 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 9/22/04 were within the acceptance criteria.

4. BLANKS

One laboratory semivolatile method blank, field blank, and equipment blank were analyzed with this SDG. The results are summarized below.

<u>Method Blank (0922SBLK)</u>

Acenaphthene (0.829 ppb) and Bis-(2-ethylhexyl) phthalate (.695 ppb) was detected in method blank extracted on 9/20/04

<u>Equipment Blank (SKSWEB1011)</u>

There was no target compounds detected in the equipment blank collected on 9/14/04.

Field Blank (SKSWFB101[illegible])

Bis-(2-ethylhexyl) phthalate (1.45 ppb) and Di-n-butylphthalate (1.53 ppb) were detected in the equipment blank collected on 9/14/04. The Bis-(2-ethylhexyl) phthalate result was mitigated by the presence of Bis-(2-ethylhexyl) phthalate 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 SKSW501011 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of the 4-Nitorphenol. 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 and the Date Extracted off of the CLP Form 1'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 Bis-(2-ethylhexyl) phthalate 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

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204092004 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 September 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 204092004.

GCAL #	Sample Description
20409200401	SKFB1011
20409200402	SKSW501011
20409200403	SKSW50MS1011
20409200404	SKSW50MSD1011
20409200406	SKSW511011
20409200407	SKSW521011
20409200408	SKSWEB1011
20409200409	SKSWTB1011

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. The laboratory to denote specific information regarding the analytical results uses various qualifier codes. 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 MSV0. One bromofluorobenzene (BFB) tunes was run. The BFB tune is acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 9/20/04 was analyzed on instrument MSV0 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 9/20/04 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

One CC dated 9/20/04 was analyzed on instrument MSV0 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 9/20/04. The Acetone and 2-Butanone results were previously qualified under section 3A above.

4. BLANKS

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

MB192956

Methylene chloride (0.12 ppb), and 1,2-Dichlorobenzene (0.076 ppb) were detected in the method blank analyzed on 9/20/04.

Storage Blank (VHBLK01)

Methylene chloride (0.17 ppb) was detected in the method blank analyzed on 9/20/04.

Equipment Blank (SKSWEB1011)

Methylene chloride (0.46 ppb), Toluene (0.22 ppb), and Total Xylenes (0.046 ppb) were detected in the Field Blank collected on 9/14/04. 2-Methyl-1-Propene (0.31 ppb), 1,2-Dichloro-1-fluoroethane (0.16 ppb), and 1,3,5,7-Cyclooctatetraene (0.12 ppb) were detected as TIC.

Field Blank (SKSWFB1011)

Benzene (0.07 ppb), 2-Butanone (1.6 ppb), Ethylbenzene (0.059 ppb), Methylene chloride (0.45 ppb), Toluene (0.49 ppb), and Total Xylenes (0.25 ppb) were detected in the Field Blank collected on 9/14/04. 2-Methyl-1-Propene (0.37 ppb) and 1,2-Dichloro-1-fluoroethane (0.71 ppb) were detected as TIC.

Trip Blank (SKTB1011)

Methylene chloride (0.45 ppb), Styrene (0.075), and Toluene (0.037 ppb) were detected in the Trip Blank associated with the samples that were collected on 9/14/04. 2-Methyl-1-Propene was detected as a TIC at a concentration of 0.45 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 SKSW501011 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria.

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 204092004 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 September 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 204092004.

GCAL #	Sample Description
20409200401	SKFB1011
20409200402	SKSW501011
20409200403	SKSW50MS1011
20409200404	SKSW50MSD1011
20409200406	SKSW511011
20409200407	SKSW521011
20409200408	SKSWEB1011

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%. 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. The percent difference for each of the pesticides and surrogates in the midpoint concentration of the Individual Standard Mixtures A and B was within the acceptance criteria of ±25.0 percent with the exception of Heptachlor and Endrin. As per the National Functional Guidelines, if the percent difference is greater than 25 percent for the compound(s) being quantified, qualify all associated detected results with "J" and non-detects with "UJ".

5. BLANKS

One laboratory method blank, Equipment blank, and Field Blank were analyzed with this SDG. The results are summarized below.

<u>Method Blank 193099</u>

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 9/21/04.

Equipment Blank SKSWEB1011

No constituents were detected above the laboratory-reporting limit in the equipment blank collected on 9/14/04.

Field Blank SKFB1011

No constituents were detected above the laboratory-reporting limit in the equipment blank collected on 9/14/04.

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. 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 10/15/2004

GCAL Report 204092004

Deliver To	Earth Tech 200 Vine Street Wilder, KY 41076 859-442-2300
Attn	Pat Higgins

Customer Earth Tech

Project Skinner Landfill

000001

ADDITION

RESUBMITTED

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

CASE NARRATIVE

Client: Earth Tech **Report:** 204092004

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 OLM04.2 - CLP Semi-Volatiles analysis prep batch 280212 the MS/MSD exhibited sporadic recovery failures. These recoveries were within limits in the LCS. This is attributed to a matrix interference.

GC-SEMI-VOLATILES

In the analysis of the standard INDAM02 on the confirmatory column, Heptachlor and Endrin were high. No results were reported from this column.

METALS

Selenium was detected in the continuing calibration blank for analytical batch 280835; however, Selenium was not detected above the reporting limit for samples associated with this QC; therefore, the data is reportable.

In the ILM04.1 - CLP Metals analysis for prep batch 280262, 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 a matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 60%.

In the ILM04.1 - CLP Metals analysis for prep batch 280261, the MS recoveries were outside the control limits for Arsenic and Selenium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by a matrix interference. A post-digestion spike was performed on the QC sample for this batch with recoveries of 115% for Arsenic and 124% for Selenium.

The Sample/Duplicate RPD for Antimony and Iron for prep batch 280262 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

The Sample/Duplicate RPD for Antimony, Iron, and Silver for prep batch 280261 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 204092004

THIS REPORT CONTAINS 554 PAGES.

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20409200401	SKFB1011	Water	09/14/2004 13:44	09/18/2004 10:00
20409200402	SKSW501011	Water	09/14/2004 10:20	09/18/2004 10:00
20409200403	SKSW50MS1011	Water	09/14/2004 10:32	09/18/2004 10:00
20409200404	SKSW50MSD1011	Water	09/14/2004 10:47	09/18/2004 10:00
20409200405	SKSW50DUP1011	Water	09/14/2004 10:47	09/18/2004 10:00
20409200406	SKSW511011	Water	09/14/2004 12:25	09/18/2004 10:00
20409200407	SKSW521011	Water	09/14/2004 13:00	09/18/2004 10:00
20409200408	SKSWEB1011	Water	09/14/2004 13:30	09/18/2004 10:00
20409200409	SKTB1011	Water	09/14/2004 00:00	09/18/2004 10:00
20409200410	SKFB1011 (DISS)	Water	09/14/2004 13:44	09/18/2004 10:00
20409200411	SKSW501011 (DISS)	Water	09/14/2004 10:20	09/18/2004 10:00
20409200412	SKSW50MS1011 (DISS)	Water	09/14/2004 10:32	09/18/2004 10:00
20409200413	SKSW50DUP1011 (DISS)	Water	09/14/2004 10:47	09/18/2004 10:00
20409200414	SKSW511011 (DISS)	Water	09/14/2004 12:25	09/18/2004 10:00
20409200415	SKSW521011 (DISS)	Water	09/14/2004 13:00	09/18/2004 10:00
20409200416	SKSWEB1011 (DISS)	Water	09/14/2004 13:30	09/18/2004 10:00

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKFB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No: SAS No: SDG No.: 204092004

Matrix (soil/water): Water

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

Lab Sample ID: 20409200401

Level: (low/med)

Lab File ID: 2040920/T6228

% Moisture: not dec.

Date Collected: 09/14/04 Time: 1344

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

Date Received: 09/18/04

Instrument ID: MSV0

Date Analyzed: 09/20/04 Time: 1919

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 280203

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	1.6	J	0.010	5.0	J
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	0.070	J	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	0.059	J	0.010	1.0	
75-09-2	Methylene chloride	2.0 ~~0.48~~	J B	0.010	2.0	il
100-42-5	Styrene	1.0	U	0.010	1.0	

12/20/04 MSC

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKFB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20409200401

Level: (low/med) Lab File ID: 2040920/T6228

% Moisture: not dec. Date Collected: 09/14/04 Time: 1344

GC Column: DB-624-30M ID: .53 (mm) Date Received: 09/18/04

Instrument ID: MSV0 Date Analyzed: 09/20/04 Time: 1919

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 280203

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	0.49	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)	0.25	J	0.010	1.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SKFB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No: SAS No: SDG No.: 204092004

Matrix: Water Lab Sample ID: 20409200401

Sample wt/vol: Units: Lab File ID: 2040920/T6228

Level: (low/med) Date Collected: 09/14/04 Time: 1344

% Moisture: not dec. Date Received: 09/18/04

GC Column: DB-624-30M ID: 53 (mm) Date Analyzed: 09/20/04 Time: 1919

Instrument ID: MSV0 Dilution Factor: 1 Analyst: MEF

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	
1.	115-11-7	1-Propene, 2-methyl-	2.434	.363	

4

12/20/04 MSL

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW501011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil/water) Water

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

Lab Sample ID: 20409200402

Level: (low/med)

Lab File ID: 2040920/T6221

% Moisture: not dec.

Date Collected: 09/14/04 Time: 1020

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

Date Received: 09/18/04

Instrument ID: MSV0

Date Analyzed: 09/20/04 Time: 1627

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch:

Analytical Batch: 280203

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	0.026	J	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	0.019	J	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 ~~0.10~~	J B	0.010	2.0	U
100-42-5	Styrene	1.0	U	0.010	1.0	

12/20/04 MSL

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW501011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No. SDG No.: 204092004

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20409200402

Level: (low/med) Lab File ID: 2040920/T6221

% Moisture: not dec. Date Collected: 09/14/04 Time: 1020

GC Column: DB-624-30M ID: 53 (mm) Date Received: 09/18/04

Instrument ID: MSV0 Date Analyzed: 09/20/04 Time: 1627

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 280203

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.
SKSW501011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: Water Lab Sample ID: 20409200402

Sample wt/vol: Units: Lab File ID: 2040920/T6221

Level: (low/med) Date Collected: 09/14/04 Time: 1020

% Moisture: not dec. Date Received: 09/18/04

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 09/20/04 Time: 1627

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.		
1.	115-11-7	1-Propene, 2-methyl-	2.443	.268		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW511011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No: SAS No: SDG No.: 204092004

Matrix (soil/water): Water

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

Lab Sample ID: 20409200406

Level: (low/med)

Lab File ID: 2040920/T6226

% Moisture: not dec.

Date Collected: 09/14/04 Time: 1225

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

Date Received: 09/18/04

Instrument ID: MSV0

Date Analyzed: 09/20/04 Time: 1836

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 280203

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	

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FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW511011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil/water) Water

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

Lab Sample ID: 20409200406

Level: (low/med)

Lab File ID: 2040920/T6226

% Moisture: not dec.

Date Collected: 09/14/04 Time: 1225

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

Date Received: 09/18/04

Instrument ID: MSV0

Date Analyzed: 09/20/04 Time: 1836

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 280203

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.
SKSW511011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No: SAS No: SDG No.: 204092004

Matrix: Water Lab Sample ID: 20409200406

Sample wt/vol: Units: Lab File ID: 2040920/T6226

Level: (low/med) Date Collected: 09/14/04 Time: 1225

% Moisture: not dec. Date Received: 09/18/04

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 09/20/04 Time: 1836

Instrument ID: MSV0 Dilution Factor: 1 Analyst: MEF

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.		
1	115-11-7	1-Propene, 2-methyl-	2.44	299		LL

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW521011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil/water) Water

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

Lab Sample ID: 20409200407

Level: (low/med)

Lab File ID: 2040920/T6227

% Moisture: not dec.

Date Collected: 09/14/04 Time: 1300

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

Date Received: 09/18/04

Instrument ID: MSV0

Date Analyzed: 09/20/04 Time: 1858

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 280203

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	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSW521011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No: SAS No: SDG No.: 204092004

Matrix (soil/water): Water

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

Lab Sample ID: 20409200407

Level: (low/med)

Lab File ID: 2040920/T6227

% Moisture: not dec.

Date Collected: 09/14/04 Time: 1300

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

Date Received: 09/18/04

Instrument ID: MSV0

Date Analyzed: 09/20/04 Time: 1858

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 280203

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

FORM I VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSW521011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: Water Lab Sample ID: 20409200407

Sample wt/vol: Units: Lab File ID: 2040920/T6227

Level: (low/med) Date Collected: 09/14/04 Time: 1300

% Moisture: not dec. Date Received: 09/18/04

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 09/20/04 Time: 1858

Instrument ID: MSV0 Dilution Factor: 1 Analyst: MEF

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.		
1.	115-11-7	1-Propene, 2-methyl-	2.441	.409		U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWEB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix (soil/water) Water

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

Lab Sample ID: 20409200408

Level: (low/med)

Lab File ID: 2040920/T6229

% Moisture: not dec.

Date Collected: 09/14/04 Time: 1330

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

Date Received: 09/18/04

Instrument ID: MSV0

Date Analyzed: 09/20/04 Time: 1941

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL)

Prep Batch:

Analytical Batch: 280203

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 ~~2.48~~	J B	0.010	2.0	il
100-42-5	Styrene	1.0	U	0.010	1.0	

FORM 1 VOA

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKSWEB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil/water) Water

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

Lab Sample ID: 20409200408

Level: (low/med)

Lab File ID: 2040920/T6229

% Moisture: not dec.

Date Collected: 09/14/04 Time: 1330

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

Date Received: 09/18/04

Instrument ID: MSV0

Date Analyzed: 09/20/04 Time: 1941

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: MEF

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 280203

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	0.22	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)	0.046	J	0.010	1.0

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSWEB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No SAS No SDG No.: 204092004

Matrix: Water Lab Sample ID: 20409200408

Sample wt/vol: Units: Lab File ID: 2040920/T6229

Level: (low/med) Date Collected: 09/14/04 Time: 1330

% Moisture: not dec. Date Received: 09/18/04

GC Column: DB-624-30M ID 53 mm Date Analyzed: 09/20/04 Time: 1941

Instrument ID: MSV0 Dilution Factor: 1 Analyst: MEF

Soil Extract Volume: µL

Soil Aliquot Volume: µL

Number TICs Found: 2

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	
1.	115-11-7	1-Propene, 2-methyl-	2.44	.374	
2.	430-57-9	Ethane, 1,2-dichloro-1-fluoro-	3.663	.712	

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKTB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil/water) Water

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

Lab Sample ID: 20409200409

Level: (low/med)

Lab File ID: 2040920/T6222

% Moisture: not dec.

Date Collected: 09/14/04 Time: 0000

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

Date Received: 09/18/04

Instrument ID: MSV0

Date Analyzed: 09/20/04 Time: 1709

Soil Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Batch: Analytical Batch: 280203

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 ~~0.45~~	J B	0.010	2.0	LL
100-42-5	Styrene	0.075	J	0.010	1.0	

12/10/04 mm

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SKTB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No: SDG No.: 204092004

Matrix (soil/water) Water

Sample wt/vol: 25 (g/ml) mL Lab Sample ID: 20409200409

Level: (low/med) Lab File ID: 2040920/T6222

% Moisture: not dec. Date Collected: 09/14/04 Time: 0000

GC Column: DB-624-30M ID: .53 (mm) Date Received: 09/18/04

Instrument ID: MSV0 Date Analyzed: 09/20/04 Time: 1709

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

Soil Aliquot Volume: (µL) Prep Batch: Analytical Batch: 280203

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	0.037	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.
SKTB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: Water Lab Sample ID: 20409200409

Sample wt/vol: Units: Lab File ID: 2040920/T6222

Level: (low/med) Date Collected: 09/14/04 Time: 0000

% Moisture: not dec. Date Received: 09/18/04

GC Column: DB-624-30M ID: .53 (mm Date Analyzed: 09/20/04 Time: 1709

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RSP

Soil Extract Volume: (µL

Soil Aliquot Volume: (µL

Number TICs Found: 3

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	
1 .	115-11-7	1-Propene, 2-methyl-	2.444	.307	
2 .	430-57-9	Ethane, 1,2-dichloro-1-fluoro-	3.673	.164	
3 .	629-20-9	1,3,5,7-Cyclooctatetraene	9.2	.121	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No:

SAS No.: SDG No: 204092004

Matrix: Water

Sample wt/vol: 500 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: SKFB1011

Contract:

Lab File ID: 2040922/B2515

Lab Sample ID: 20409200401

Date Collected: 09/14/04 Time: 1344

Date Received: 09/18/04

Date Extracted: 9/20/04

Date Analyzed: 09/22/04 Time: 1821

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 280212 Analytical Batch: 280471

CAS NO.	COMPOUND	RESULT		MDL	RL	
95-95-4	2,4,5-Trichlorophenol	20.0	U	0.020	20.0	
88-06-2	2,4,6-Trichlorophenol	20.0	U	0.020	20.0	
120-83-2	2,4-Dichlorophenol	20.0	U	0.020	20.0	
51-28-5	2,4-Dinitrophenol	50.0	U	0.020	50.0	
121-14-2	2,4-Dinitrotoluene	20.0	U	0.020	20.0	
606-20-2	2,6-Dinitrotoluene	20.0	U	0.020	20.0	
91-58-7	2-Chloronaphthalene	20.0	U	0.020	20.0	
95-57-8	2-Chlorophenol	20.0	U	0.020	20.0	
91-57-6	2-Methylnaphthalene	20.0	U	0.020	20.0	
88-74-4	2-Nitroaniline	50.0	U	0.020	50.0	
88-75-5	2-Nitrophenol	20.0	U	0.020	20.0	
91-94-1	3,3'-Dichlorobenzidine	20.0	U	0.020	20.0	
99-09-2	3-Nitroaniline	50.0	U	0.020	50.0	
534-52-1	2-Methyl-4,6-dinitrophenol	50.0	U	0.020	50.0	
59-50-7	4-Chloro-3-methylphenol	20.0	U	0.020	20.0	
106-47-8	4-Chloroaniline	20.0	U	0.020	20.0	R
7005-72-3	4-Chlorophenyl-phenylether	20.0	U	0.020	20.0	
106-44-5	4-Methylphenol (p-Cresol)	20.0	U	0.020	20.0	
83-32-9	Acenaphthene	20.0	U	0.020	20.0	
208-96-8	Acenaphthylene	20.0	U	0.020	20.0	
120-12-7	Anthracene	20.0	U	0.020	20.0	
56-55-3	Benzo(a)anthracene	20.0	U	0.020	20.0	
50-32-8	Benzo(a)pyrene	20.0	U	0.020	20.0	
205-99-2	Benzo(b)fluoranthene	20.0	U	0.020	20.0	
191-24-2	Benzo(g,h,i)perylene	20.0	U	0.020	20.0	
207-08-9	Benzo(k)fluoranthene	20.0	U	0.020	20.0	
111-91-1	Bis(2-Chloroethoxy)methane	20.0	U	0.020	20.0	
111-44-4	Bis(2-Chloroethyl)ether	20.0	U	0.020	20.0	
108-60-1	bis(2-Chloroisopropyl)ether	20.0	U	0.020	20.0	
117-81-7	bis(2-ethylhexyl)phthalate	20.0	J 6	0.020	20.0	U

12/14/04
MJL

FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204092004

Matrix: Water

Sample wt/vol: 500 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: SKFB1011

Contract:

Lab File ID: 2040922/B2515

Lab Sample ID: 20409200401

Date Collected: 09/14/04 Time: 1344

Date Received: 09/18/04

Date Extracted: 9/20/04

Date Analyzed: 09/22/04 Time: 1821

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 280212 Analytical Batch: 280471

CAS NO.	COMPOUND	RESULT		MDL	RL
101-55-3	4-Bromophenyl-phenylether	20.0	U	0.020	20.0
85-68-7	Butylbenzylphthalate	20.0	U	0.020	20.0
86-74-8	Carbazole	20.0	U	0.020	20.0
218-01-9	Chrysene	20.0	U	0.020	20.0
84-74-2	Di-n-butylphthalate	1.53	J	0.020	20.0
117-84-0	Di-n-octylphthalate	20.0	U	0.020	20.0
53-70-3	Dibenz(a,h)anthracene	20.0	U	0.020	20.0
132-64-9	Dibenzofuran	20.0	U	0.020	20.0
84-66-2	Diethylphthalate	20.0	U	0.020	20.0
131-11-3	*Dimethyl-phthalate*	*20.0*	*U*	*0.020*	*20.0*
105-67-9	2,4-Dimethylphenol	20.0	U	0.020	20.0
206-44-0	Fluoranthene	20.0	U	0.020	20.0
86-73-7	Fluorene	20.0	U	0.020	20.0
118-74-1	Hexachlorobenzene	20.0	U	0.020	20.0
87-68-3	Hexachlorobutadiene	20.0	U	0.020	20.0
77-47-4	Hexachlorocyclopentadiene	20.0	U	0.020	20.0
67-72-1	Hexachloroethane	20.0	U	0.020	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	20.0	U	0.020	20.0
78-59-1	Isophorone	20.0	U	0.020	20.0
91-20-3	Naphthalene	20.0	U	0.020	20.0
100-01-6	4-Nitroaniline	50.0	U	0.020	50.0
98-95-3	Nitrobenzene	20.0	U	0.020	20.0
100-02-7	4-Nitrophenol	50.0	U	0.020	50.0
87-86-5	Pentachlorophenol	50.0	U	0.020	50.0
85-01-8	Phenanthrene	20.0	U	0.020	20.0
108-95-2	Phenol	20.0	U	0.020	20.0
129-00-0	Pyrene	20.0	U	0.020	20.0
621-64-7	N-Nitroso-di-n-propylamine	20.0	U	0.020	20.0
86-30-6	N-Nitrosodiphenylamine	20.0	U	0.020	20.0
95-48-7	o-Cresol	20.0	U	0.020	20.0

12/14/04
MCA

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204092004
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: SKFB1011
Contract:
Lab File ID: 2040922/B2515
Lab Sample ID: 20409200401
Date Collected: 09/14/04 Time: 1344
Date Received: 09/18/04
Date Extracted: 9/20/04
Date Analyzed: 09/22/04 Time: 1821
Dilution Factor: 1 Analyst: JAR3
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	5.234	9.14	

12/14/04
MSL

FORM I SV-TIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204092004

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: SKSW501011

Contract:

Lab File ID: 2040922/B2516

Lab Sample ID: 20409200402

Date Collected: 09/14/04 Time: 1020

Date Received: 09/18/04

Date Extracted: 09/20/04

Date Analyzed: 09/22/04 Time: 1838

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 280212 Analytical Batch: 280471

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
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	10.0	U	0.010	10.0

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12/14/04 MSC

1B

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204092004

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: SKSW501011

Contract:

Lab File ID: 2040922/B2516

Lab Sample ID: 20409200402

Date Collected: 09/14/04 Time: 1020

Date Received: 09/18/04

Date Extracted: 09/20/04

Date Analyzed: 09/22/04 Time: 1838

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 280212 Analytical Batch: 280471

CONCENTRATION UNITS: ug/L

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	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

12/14/04
MJ

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.: 204092004
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: SKSW501011
Contract:
Lab File ID: 2040922/B2516
Lab Sample ID: 20409200402
Date Collected: 09/14/04 Time: 1020
Date Received: 09/18/04
Date Extracted: 9/20/04
Date Analyzed: 09/22/04 Time: 1838
Dilution Factor: 1 Analyst: JAR3
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	3.568	1.16	

12/14/04
MSC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204092004

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: SKSW511011

Contract:

Lab File ID: 2040922/B2519

Lab Sample ID: 20409200406

Date Collected: 09/14/04 Time: 1225

Date Received: 09/18/04

Date Extracted: 09/20/04

Date Analyzed: 09/22/04 Time: 1932

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 280212 Analytical Batch: 280471

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
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	10.0	U	0.010	10.0

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FORM I SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204092004

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: SKSW511011

Contract:

Lab File ID: 2040922/B2519

Lab Sample ID: 20409200406

Date Collected: 09/14/04 Time: 1225

Date Received: 09/18/04

Date Extracted: 09/20/04

Date Analyzed: 09/22/04 Time: 1932

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 280212 Analytical Batch: 280471

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	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

12) 4-4

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.: 204092004
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: SKSW511011
Contract:
Lab File ID: 2040922/B2519
Lab Sample ID: 20409200406
Date Collected: 09/14/04 Time: 1225
Date Received: 09/18/04
Date Extracted: 9/20/04
Date Analyzed: 09/22/04 Time: 1932
Dilution Factor: 1 Analyst: JAR3
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	3.571	1.05	

12/20/04 [illegible]

FORM I SV-TIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204092004

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: SKSW521011

Contract:

Lab File ID: 2040922/B2520

Lab Sample ID: 20409200407

Date Collected: 09/14/04 Time: 1300

Date Received: 09/18/04

Date Extracted: 09/20/04

Date Analyzed: 09/22/04 Time: 1950

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 280212 Analytical Batch: 280471

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
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

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FORM I SV-1

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No
SAS No.: SDG No 204092004
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 SKSW521011
Contract:
Lab File ID: 2040922/B2520
Lab Sample ID 20409200407
Date Collected 09/14/04 Time: 1300
Date Received 09/18/04
Date Extracted 9/20/04
Date Analyzed 09/22/04 Time: 1950
Dilution Factor 1 Analyst: JAR3
Prep Method 3520
Analytical Method OLMO 4.2
Instrument ID MSSV3
Prep Batch: 280212 Analytical Batch: 280471

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	0.591	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

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1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204092004
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: SKSW521011
Contract:
Lab File ID: 2040922/B2520
Lab Sample ID: 20409200407
Date Collected: 09/14/04 Time: 1300
Date Received: 09/18/04
Date Extracted: 9/20/04
Date Analyzed: 09/22/04 Time: 1950
Dilution Factor: 1 Analyst: JAR3
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	7.47	8.89	

12/14/04
mix

FORM I SV-TIC

1B

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204092004

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: SKSWEB1011

Contract:

Lab File ID: 2040922/B2521

Lab Sample ID: 20409200408

Date Collected: 09/14/04 Time: 1330

Date Received: 09/18/04

Date Extracted: 09/20/04

Date Analyzed: 09/22/04 Time: 2008

Dilution Factor: 1 Analyst: JAR3

Prep Method: 3520

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 280212 Analytical Batch: 280471

CONCENTRATION UNITS: ug/L

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
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	10.0	U	0.010	10.0

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12/14/04

FORM I SVOA

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

SAS No.: SDG No.: 204092004

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: SKSWEB1011

Contract:

Lab File ID: 2040922/B2521

Lab Sample ID: 20409200408

Date Collected: 09/14/04 Time: 1330

Date Received: 09/18/04

Date Extracted: 09/20/04

Date Analyzed: 09/22/04 Time: 2008

Dilution Factor: 1 Analyst: JAR3

Prep Method: 352C

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

Prep Batch: 280212 Analytical Batch: 280471

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	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

12/14/04
MSA

1F

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 204092004
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: SKSWEB1011
Contract:
Lab File ID: 2040922/B2521
Lab Sample ID: 20409200408
Date Collected: 09/14/04 Time: 1330
Date Received: 09/18/04
Date Extracted: 9/20/04
Date Analyzed: 09/22/04 Time: 2008
Dilution Factor: 1 Analyst: JAR3
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	5.234	11.4	

12/14/04
[illegible]

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: 280250 Analytical Batch: 280887

CONCENTRATION UNITS: ug/L

Sample ID: SKFB1011

Contract:

SAS No.: SDG No.: 204092004

Lab Sample ID: 20409200401

Date Collected: 09/14/04 Time: 1344

Date Received: 09/18/04

Date Extracted: 09/21/04

Date Analyzed: 10/03/04 Time: 0440

Dilution Factor: 1 Analyst: DLB

Prep Method: 3510

Analytical Method: OLMO 4.2

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

Lab File ID: 2041002/SV3026

CAS NO.	COMPOUND	RESULT	Q	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	
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	UJ
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	UJ
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	
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	
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	

12/14/04
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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: 280250 Analytical Batch: 280887

CONCENTRATION UNITS: ug/L

Sample ID: SKSW501011

Contract:

SAS No.: SDG No.: 204092004

Lab Sample ID: 20409200402

Date Collected: 09/14/04 Time: 1020

Date Received: 09/18/04

Date Extracted: 09/21/04

Date Analyzed: 10/03/04 Time: 0142

Dilution Factor: 1 Analyst: DLB

Prep Method: 3510

Analytical Method: OLMO 4.2

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

Lab File ID: 2041002/SV3020

CAS NO.	COMPOUND	RESULT	Q	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	
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	ILT
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	ILT
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	
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	
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: 280250 Analytical Batch: 280887

CONCENTRATION UNITS: ug/L

Sample ID: SKSW511011

Contract:

SAS No.: SDG No.: 204092004

Lab Sample ID: 20409200406

Date Collected: 09/14/04 Time: 1225

Date Received: 09/18/04

Date Extracted: 09/21/04

Date Analyzed: 10/03/04 Time: 0311

Dilution Factor: 1 Analyst: DLB

Prep Method: 3510

Analytical Method: OLMO 4.2

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

Lab File ID: 2041002/SV3023

CAS NO.	COMPOUND	RESULT	Q	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	
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	UJ
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	UJ
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	
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	
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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ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSW521011

Lab Code: LA024 | Case No: | Contract:

Matrix: Water | SAS No.: | SDG No.: 204092004

Sample wt/vol: 1000 Units: mL | Lab Sample ID: 20409200407

Level: (low/med) | Date Collected: 09/14/04 | Time: 1300

% Moisture: | decanted: (Y/N) | Date Received: 09/18/04

GC Column: DB1701-30M ID: .53 (mm) | Date Extracted: 09/21/04

Concentrated Extract Volume: 1000 (µL) | Date Analyzed: 10/03/04 | Time: 0340

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: 280250 Analytical Batch: 280887 | Sulfur Cleanup: (Y/N) N | Instrument ID: GCS3A

CONCENTRATION UNITS: ug/L | Lab File ID: 2041002/SV3024

CAS NO.	COMPOUND	RESULT	Q	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	
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	UJ
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	UJ
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	
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	
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	

12/14/04
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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: 280250 Analytical Batch: 280887

CONCENTRATION UNITS: ug/L

Sample ID: SKSWEB1011

Contract:

SAS No.: SDG No.: 204092004

Lab Sample ID: 20409200408

Date Collected: 09/14/04 Time: 1330

Date Received: 09/18/04

Date Extracted: 09/21/04

Date Analyzed: 10/03/04 Time: 0410

Dilution Factor: 1 Analyst: DLB

Prep Method: 3510

Analytical Method: OLMO 4.2

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

Lab File ID: 2041002/SV3025

CAS NO.	COMPOUND	RESULT	Q	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	
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	UJ
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	UJ
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	
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	
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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MSC

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 **Case No.:** SAS No.: **SDG No.:** 204092004

SOW No.:

EPA Sample No	*Lab Sample ID*
SKFB1011	20409200401
SKSW501011	20409200402
SKSW50MS1011	20409200403
SKSW50DUP1011	20409200405
SKSW511011	20409200406
SKSW521011	20409200407
SKSWEB1011	20409200408
SKFB1011 (DISS)	20409200410
SKSW501011 (DISS)	20409200411
SKSW50MS1011 (DISS)	20409200412
SKSW50DUP1011 (DISS)	20409200413
SKSW511011 (DISS)	20409200414
SKSW521011 (DISS)	20409200415
SKSWEB1011 (DISS)	20409200416

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: 10-27-04 Title: Metals Supervisor

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKFB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200401

Level: (low / med) Date Received: 09/18/04

% 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	0.7	U		P
57-12-5	Cyanide	0.5	U		AS

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12/20/04
MSC

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.

SKSW501011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No: SAS No: SDG No.: 204092004

Matrix (soil / water) Water Lab Sample ID: 20409200402

Level: (low / med) Date Received: 09/18/04

% 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	57.6	B		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-47-3	Chromium	2.9	B		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	5.3	U		P
7440-66-6	Zinc	0.7	U		P
57-12-5	Cyanide	0.5	U		AS

12/20/04
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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.

SKSW50MS1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200403

Level: (low / med) Date Received: 09/18/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	116			P
7440-38-2	Arsenic	51.3		N	P
7440-39-3	Barium	2180			P
7440-41-7	Beryllium	52.8			P
7440-43-9	Cadmium	52.0			P
7440-47-3	Chromium	213			P
7440-50-8	Copper	263		*	P
7439-89-6	Iron	1070		*	P
7439-92-1	Lead	21.1		*	P
7439-97-6	Mercury	5.1			AV
7440-02-0	Nickel	518			P
7782-49-2	Selenium	4.4	U	N	P R
7440-22-4	Silver	54.7			P
7440-28-0	Thallium	46.3			P
7440-66-6	Zinc	526		*	P
57-12-5	Cyanide	91.0			AS

12/20/04
MRL

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.

SKSW50DUP1011

Lab Name: GCAL Contract

Lab Code: LA024 Case No.: SAS No SDG No.: 204092004

Matrix (soil / water) Water Lab Sample ID: 20409200405

Level: (low / med) Date Received: 09/18/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	6.3	B		P
7440-38-2	Arsenic	5.4	U	N	P
7440-39-3	Barium	57.1	B		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-47-3	Chromium	2.7	B		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	9.4	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
7440-22-4	Silver	1.1	B		P
7440-28-0	Thallium	6.3	U		P
7440-66-6	Zinc	0.7	U		P
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:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW511011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200406

Level: (low / med) Date Received: 09/18/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	6.7	B		P
7440-38-2	Arsenic	5.4	U	N	P
7440-39-3	Barium	50.7	B		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-47-3	Chromium	2.6	B		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	82.8	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
7440-22-4	Silver	1.1	B		P
7440-28-0	Thallium	6.3	U		P
7440-66-6	Zinc	0.7	U		P
57-12-5	Cyanide	0.5	U		AS

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12/20/04

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.

SKSW521011

Lab Name: GCAL Contract

Lab Code: LA024 Case No.: SAS No SDG No.: 204092004

Matrix (soil / water) Water Lab Sample ID: 20409200407

Level (low / med) Date Received: 09/18/04

% 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	53.3	B		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-47-3	Chromium	3.0	B		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	88.8	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
7440-22-4	Silver	1.2	B		P
7440-28-0	Thallium	5.3	U		P
7440-66-6	Zinc	0.7	U		P
57-12-5	Cyanide	0.5	U		AS

12/20/04
MA

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.

SKSWEB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200408

Level: (low / med) Date Received: 09/18/04

% 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	0.7	U		P
57-12-5	Cyanide	0.5	U		AS

12/20/04 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.

SKFB1011 (DISS)

Lab Name: GCAL Contract

Lab Code: LA024 Case No.: SAS No SDG No.: 204092004

Matrix (soil / water) Water Lab Sample ID: 20409200410

Level (low / med) Date Received: 09/18/04

% 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	0.5	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	24.8	B		P	
7439-92-1	Lead	2.4	U		P	UJ
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	5.3	U		P	
7440-66-6	Zinc	3.1	B		P	J

12/20/04
mk

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.

SKSW501011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200411

Level: (low / med) Date Received: 09/18/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	9.9	B		P
7440-38-2	Arsenic	5.4	U		P
7440-39-3	Barium	56.3	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	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	1.3	B		P
7440-28-0	Thallium	6.3	U		P
7440-66-6	Zinc	0.7	U		P

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12/20/04 MR

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.

SKSW50MS1011 (DISS)

Lab Name: GCAL Contract

Lab Code: LA024 Case No: SAS No SDG No.: 204092004

Matrix (soil / water) Water Lab Sample ID: 20409200412

Level: (low / med) Date Received: 09/18/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	114			P
7440-38-2	Arsenic	33.1			P
7440-39-3	Barium	2080			P
7440-41-7	Beryllium	52.3			P
7440-43-9	Cadmium	49.1			P
7440-47-3	Chromium	208			P
7440-50-8	Copper	259			P
7439-89-6	Iron	1040			P
7439-92-1	Lead	16.7			P
7439-97-6	Mercury	5.4			AV
7440-02-0	Nickel	494			P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	54.6			P
7440-28-0	Thallium	54.0			P
7440-66-6	Zinc	500			P

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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.

SKSW50DUP1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200413

Level: (low / med) Date Received: 09/18/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	6.2	B		P	
7440-38-2	Arsenic	5.4	U		P	
7440-39-3	Barium	56.6	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-47-3	Chromium	2.9	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	11.0	B		P	
7439-92-1	Lead	2.4	U		P	UJ
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	1.1	B		P	
7440-28-0	Thallium	6.3	U		P	
7440-66-6	Zinc	0.7	U		P	

12/20/04
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.

SKSW511011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200414

Level: (low / med) Date Received: 09/18/04

% 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	7.7	B		P	
7440-39-3	Barium	51.0	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-47-3	Chromium	3.1	B		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	R
7440-22-4	Silver	1.2	B		P	
7440-28-0	Thallium	6.3	U		P	
7440-66-6	Zinc	0.7	U		P	

11/20/04
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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.

SKSW521011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200415

Level: (low / med) Date Received: 09/18/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	8.8	B		P
7440-38-2	Arsenic	5.4	U		P
7440-39-3	Barium	54.3	B		P
7440-41-7	Beryllium	0.2	U		P
7440-43-9	Cadmium	0.3	U		P
7440-47-3	Chromium	3.0	B		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	1.5	B		P
7440-28-0	Thallium	6.3	U		P
7440-66-6	Zinc	0.7	U		P

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12/20/04 MRL

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.

SKSWEB1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix (soil / water): Water Lab Sample ID: 20409200416

Level (low / med): Date Received: 09/18/04

% 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	0.3	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	0.7	U		P

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12/20/04

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			
Earth Tech	4342	204092004	10/1/04
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: Bill to: Glen Springs Contract
Contact:
Phone:
Fax:

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill 3rd Qtr 04
Sampled By: Pat Higgins / Karen Batey

Analytical Requests & Method

Lab use only:
Custody Seal
used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 5

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 9/20
W	9/14/04	1344		X	SKFB 1011	Various	8 10	X	X	X	X	X	X	X			10	Refer to	-1
		1020			SKSW50 1011	3	1 HCL	X										table 7 (TCL)	2
		1032			SKSW50 MS 1011													and Tables 8	3
		1047			SKSW50 MSD 1011													(TAC) of the	MSD-4 dup-5
		1225			SKSW51 1011													final Cay M Plan	-6
		1300			SKSW52 1011													for the list	7
		1330			SKSWFB 1011													of analytes	8
					SKTB 1011														9
																		* low sample	
																		volume for	
																		Field Blank	
																		(FB) sample	
																		1 Semi-Volatile and	
																		1 Pest/PCB Jar	

000548

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	Fedex	9/17/04	1700
Fed ex 791334441323	Dm Pinlw	9-18-04	0920
Dm Pinlw	Cooler	9-18-04	1000

Note: sample sent via fed ex standard turnaround

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

Matrix: 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

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	204092004	10/1/04

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

Bill to:
Client:
Address: Bill to:
Contact: Glen Springs
Phone:
Fax: Contract

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill 3rd Qtr 04
Sampled By: Pat Higgens / Karen Batey

Analytical Requests & Method

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

Matrix[1]	Date	Time (2400)	Comp	G-B	Sample Description	Preservatives	No Containers	Volatiles	Semi-Volatiles	Pesticides	PCB's	Total Metals	Dissolved Metals	Cyanide			Lab ID
W	9/14/04	1020		X	SKSW50 1011	Various	7		X	X	X	X	X	X		11	9120
W	9/14/04	1022		X	SKSW50 MS 1011	Various	7		X	X	X	X	X	X		12	2

Remarks: Refer to Table 7 (TCL) and Table 8 (TAL) of the Final QAM 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	Fedex	9/17/04	1700
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fedex 7902 7402 3109	[illegible]	9-18-04	0920
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[illegible]	Cooler	9-18-04	1020

Note: sample sent via fedex
Standard turnaround

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

Matrix: W = water, S = soil, SD = solid, L = liquid, SL = sludge, OIL = oil, OT = other

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

000549

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			
Earth Tech	4342	204092004	10/1/04
Client Name	Client #	Workorder #	Due Date

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

Bill to:
Client:
Address: Bill to:
Contact: Glen Springs
Phone: Contract
Fax:

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill 3rd Qtr 04
Sampled By: Pat Higgins / Karen Batey

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	PCB's	Total metals	Dissolved metals	Cyanide			diss		Remarks:	Lab ID
W	9/14/04	1047		X	SKSW50MSD1011	Various	7		X	X	X	X	X	X			13		Refer to	9 120 MSD -4 dup -5
W	9/14/04	1330		X	SKSWGB1011	Various	7		X	X	X	X	X	X			16		Table 7 (TCL) and Table 8 (TAC) of the final Cam plan for the list of analytes	8

000550

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	fedex	9/17/04	1700
Fed Ex 7920 9096 8304	Dm Pinkl	9-18-04	0920
Dm Pinkl	Cooler	9-18-04	1000
Cooler	[illegible]	9-20-04	0730

Note: Sample sent via fed ex Standard turnaround

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

Matrix: 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

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	204092004	10/1/04

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: Bill to:
Contact: Glen Springs
Phone: Contract
Fax:

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill 3rd Qtr 04
Sampled By: Pat Higgins / Karen Bailey

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			Diss	Remarks:	Lab ID
W	9/14/04	1225		X	SKSW51 1011	Various	7		X	X	X	X	X	X			14	Refer to Table 7 (TCL) and Table 8 (TAC) of the final Cam plan for the list of analytes	9 12
W	9/14/04	1300		X	SKSW52 1011	Various	7		X	X	X	X	X	X			15		6 7

Lab use only:
Custody Seal
used ☑ yes ☐ no
in tact ☑ yes ☐ no
Temperature °C 5

000551

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	fedex	9/17/04	1700
FedEx 7927 3201 8901	Dm Pmlhl	9-18-04	0920
Dm Pmlhl	Cooler	9-18-04	1000

Note: Sample sent via fedex Standard turnaround

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

Matrix: 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 ...

WHITE: CLIENT FINAL REPORT — CANARY LABORATORY — PINK CLIENT

GCAL-06 '98

DATA VALIDATION REPORT

FOR

SKINNER LANDFILL SITE

EARTH TECH: PROJECT NUMBER 54280

LABORATORY REPORT NUMBER 204092004

PROJECT MANAGER: Ron Rolker

Date: December 13, 2004

Revised Report Dated: September 1, 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 204092004 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in September 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) 204092004.

GCAL #	Sample Description
20409200401	SKFB1011
20409200402	SKSW501011
20409200403	SKSW50MS1011
20409200405	SKSW50DUP1011
20409200406	SKSW511011
20409200407	SKSW521011
20409200408	SKSWEB1011
20409200410	SKFB1011 (DISS)
20409200411	SKSW501011 (DISS)
20409200412	SKSW50MS1011 (DISS)
20409200413	SKSW50DUP1011 (DISS)
20409200414	SKSW511011 (DISS)
20409200415	SKSW521011 (DISS)
20409200416	SKSWEB1011 (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. The laboratory to denote specific information regarding the analytical results uses various qualifier codes. 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 Selenium in the CCB's 9, 10, and 11 and Lead in the PB. 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 samples should have been re-digested and re-analyzed for Lead and Selenium. The Selenium results were rejected do to the 0% recovery associated with the matrix spike therefore further data qualification was not warranted. If any analyte concentration in the PB is above the CRDL, the lowest concentration of that analyte in the associated samples must be 10 times the PB concentration. Otherwise, all samples associated with that PB with the analyte's concentration less than 10 times the PB concentration, and above the CRDL, should have been re-digested and re-analyzed for that analyte. The sample concentration is not to be corrected for the blank value.

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 (total and 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 sample SKSW501011 and SKSW501011 (dissolved) for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) with the exception of Arsenic (24%) and Selenium (0%) in the total fraction and Selenium (0%) in the dissolved fraction. As per the National Functional Guidelines: 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 with the exception of Sodium in the 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 groundwater results (totals) for Aluminum, Copper, Iron, Lead, Magnesium, Manganese, and Zinc based on the RPD for duplicate samples. The RPD was within the acceptance criteria therefore the data validator crossed out the "*" qualifier associated with the Aluminum, Copper, Iron, Lead, Magnesium, Manganese, and Zinc results (total).

GCAL qualified the groundwater results for Potassium (dissolved) based on the percent difference for the serial dilution. The percent difference was within the acceptance criteria therefore the data validator crossed out the "E" qualifier associated with the dissolved Potassium results.

11. OVERALL ASSESSMENT

The percent recoveries for Lead in the Contract Required Detection Limit (CRDL) standards were 108%, 80%, 84%, 104%, and 139%.

The percent recoveries for Thallium in the Contract Required Detection Limit (CRDL) standards were 121%, 116%, 85%, 83%, and 91%.

The percent recoveries for Zinc in the Contract Required Detection Limit (CRDL) standards were 139%, 93.3%, 118%, 136%, and 133%.

If the CRDL is greater than 120% then detected results greater than the IDL but less than two times the CRDL are qualified as estimated with "J". If the CRDL is below 80% then detected results are qualified 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 204092004 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 September 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 204092004.

GCAL #	Sample Description
20409200401	SKFB1011
20409200402	SKSW501011
20409200403	SKSW50MS1011
20409200404	SKSW50MSD1011
20409200406	SKSW511011
20409200407	SKSW521011
20409200408	SKSWEB1011

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. The laboratory to denote specific information regarding the analytical results uses various data qualifier codes. 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 9/22/04 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 Hexachlorocyclopentadiene (38.2%). The lowest point of the calibration curve was dropped for Hexachlorocyclopentadiene and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Hexachlorocyclopentadiene 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 9/22/04 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC's 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 9/22/04 were within the acceptance criteria.

4. BLANKS

One laboratory semivolatile method blank, field blank, and equipment blank were analyzed with this SDG. The results are summarized below.

<u>Method Blank (0922SBLK)</u>

Acenaphthene (0.829 ppb) and Bis-(2-ethylhexyl) phthalate (.695 ppb) was detected in method blank extracted on 9/20/04

<u>Equipment Blank (SKSWEB1011)</u>

There was no target compounds detected in the equipment blank collected on 9/14/04.

Field Blank (SKSWFB1011)

Bis-(2-ethylhexyl) phthalate (1.45 ppb) and Di-n-butylphthalate (1.53 ppb) were detected in the equipment blank collected on 9/14/04. The Bis-(2-ethylhexyl) phthalate result was mitigated by the presence of Bis-(2-ethylhexyl) phthalate 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 SKSW501011 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of the 4-Nitorphenol. 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 and the Date Extracted off of the CLP Form 1'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 Bis-(2-ethylhexyl) phthalate 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

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204092004 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 September 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 204092004.

GCAL #	Sample Description
20409200401	SKFB1011
20409200402	SKSW501011
20409200403	SKSW50MS1011
20409200404	SKSW50MSD1011
20409200406	SKSW511011
20409200407	SKSW521011
20409200408	SKSWEB1011
20409200409	SKSWTB1011

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. The laboratory to denote specific information regarding the analytical results uses various qualifier codes. 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 MSV0. One bromofluorobenzene (BFB) tunes was run. The BFB tune is acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 9/20/04 was analyzed on instrument MSV0 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 9/20/04 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

One CC dated 9/20/04 was analyzed on instrument MSV0 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 9/20/04. The Acetone and 2-Butanone results were previously qualified under section 3A above.

4. BLANKS

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

<u>MB192956</u>

Methylene chloride (0.12 ppb), and 1,2-Dichlorobenzene (0.076 ppb) were detected in the method blank analyzed on 9/20/04.

Storage Blank (VHBLK01)

Methylene chloride (0.17 ppb) was detected in the method blank analyzed on 9/20/04.

Equipment Blank (SKSWEB1011)

Methylene chloride (0.46 ppb), Toluene (0.22 ppb), and Total Xylenes (0.046 ppb) were detected in the Field Blank collected on 9/14/04. 2-Methyl-1-Propene (0.31 ppb), 1,2-Dichloro-1-fluoroethane (0.16 ppb), and 1,3,5,7-Cyclooctatetraene (0.12 ppb) were detected as TIC.

Field Blank (SKSWFB1011)

Benzene (0.07 ppb), 2-Butanone (1.6 ppb), Ethylbenzene (0.059 ppb), Methylene chloride (0.45 ppb), Toluene (0.49 ppb), and Total Xylenes (0.25 ppb) were detected in the Field Blank collected on 9/14/04. 2-Methyl-1-Propene (0.37 ppb) and 1,2-Dichloro-1-fluoroethane (0.71 ppb) were detected as TIC.

Trip Blank (SKTB1011)

Methylene chloride (0.45 ppb), Styrene (0.075), and Toluene (0.037 ppb) were detected in the Trip Blank associated with the samples that were collected on 9/14/04. 2-Methyl-1-Propene was detected as a TIC at a concentration of 0.45 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 SKSW501011 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria.

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 204092004 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 September 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 204092004.

GCAL #	Sample Description
20409200401	SKFB1011
20409200402	SKSW501011
20409200403	SKSW50MS1011
20409200404	SKSW50MSD1011
20409200406	SKSW511011
20409200407	SKSW521011
20409200408	SKSWEB1011

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%. 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. The percent difference for each of the pesticides and surrogates in the midpoint concentration of the Individual Standard Mixtures A and B was within the acceptance criteria of ±25.0 percent with the exception of Heptachlor and Endrin. As per the National Functional Guidelines, if the percent difference is greater than 25 percent for the compound(s) being quantified, qualify all associated detected results with "J" and non-detects with "UJ".

5. BLANKS

One laboratory method blank, Equipment blank, and Field Blank were analyzed with this SDG. The results are summarized below.

<u>Method Blank 193099</u>

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 9/21/04.

Equipment Blank SKSWEB1011

No constituents were detected above the laboratory-reporting limit in the equipment blank collected on 9/14/04.

Field Blank SKFB1011

No constituents were detected above the laboratory-reporting limit in the equipment blank collected on 9/14/04.

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. 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 10/15/2004

GCAL Report 204092004

RESUBMITTED

Deliver To	Earth Tech 200 Vine Street Wilder, KY 41076 859-442-2300
Attn	Pat Higgins

Customer Earth Tech

Project Skinner Landfill

CASE NARRATIVE

Client: Earth Tech **Report:** 204092004

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 07/29/2005 to report TAL metals.

SEMI-VOLATILES MASS SPECTROMETRY

In the OLM04.2 - CLP Semi-Volatiles analysis prep batch 280212 the MS/MSD exhibited sporadic recovery failures. These recoveries were within limits in the LCS. This is attributed to a matrix interference.

GC-SEMI-VOLATILES

In the analysis of the standard INDAM02 on the confirmatory column, Heptachlor and Endrin were high. No results were reported from this column.

METALS

Selenium was detected in the continuing calibration blank for analytical batch 280835; however, Selenium was not detected above the reporting limit for samples associated with this QC; therefore, the data is reportable.

In the ILM04.1 - CLP Metals analysis for prep batch 280262, 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 a matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 60%.

In the ILM04.1 - CLP Metals analysis for prep batch 280261, the MS recoveries were outside the control limits for Arsenic and Selenium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by a matrix interference. A post-digestion spike was performed on the QC sample for this batch with recoveries of 115% for Arsenic and 124% for Selenium.

The Sample/Duplicate RPD for Antimony and Iron for prep batch 280262 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

RESUBMITTED

The Sample/Duplicate RPD for Antimony, Iron, and Silver for prep batch 280261 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.

SKFB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200401

Level: (low / med) Date Received: 09/18/04

% 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	R
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	11.3	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	
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	R
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	340	U		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	
57-12-5	Cyanide	0.5	U		AS	

9/2/05
MSK

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.

SKSW501011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200402

Level: (low / med) Date Received: 09/18/04

% 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	R
7440-39-3	Barium	57.6	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	93400			P	
7440-47-3	Chromium	2.9	B		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	
7439-95-4	Magnesium	26800			P	
7439-96-5	Manganese	43.3			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	3910	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	48100			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	
57-12-5	Cyanide	0.5	U		AS	

9/2/05
MSK

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.

SKSW50MS1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200403

Level: (low / med) Date Received: 09/18/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	2070		✓	P	
7440-36-0	Antimony	116			P	
7440-38-2	Arsenic	9.7	B	N	P	J
7440-39-3	Barium	2180			P	
7440-41-7	Beryllium	52.8			P	
7440-43-9	Cadmium	52.0			P	
7440-70-2	Calcium	92600			P	
7440-47-3	Chromium	213			P	
7440-48-4	Cobalt	504			P	
7440-50-8	Copper	263		✓	P	
7439-89-6	Iron	1070		✓	P	
7439-92-1	Lead	21.1		✓	P	
7439-95-4	Magnesium	28200		✓	P	
7439-96-5	Manganese	586		✓	P	
7439-97-6	Mercury	5.1			AV	
7440-02-0	Nickel	518			P	
7440-09-7	Potassium	4000	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	54.7			P	
7440-23-5	Sodium	48000			P	
7440-28-0	Thallium	46.3			P	
7440-62-2	Vanadium	532			P	
7440-66-6	Zinc	526		✓	P	J
57-12-5	Cyanide	91.0			AS	

9/2/05
MSA

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.

SKSW50DUP1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200405

Level: (low / med) Date Received: 09/18/04

% 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	6.3	B		P	
7440-38-2	Arsenic	5.4	U	N	P	R
7440-39-3	Barium	57.1	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	94700			P	
7440-47-3	Chromium	2.7	B		P	
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U	/	P	
7439-89-6	Iron	9.4	B	/	P	
7439-92-1	Lead	2.4	U	/	P	
7439-95-4	Magnesium	27300		/	P	
7439-96-5	Manganese	43.3		/	P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	3940	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	1.1	B		P	
7440-23-5	Sodium	48900			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	
57-12-5	Cyanide	0.5	U		AS	

9/2/05
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.

SKSW511011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200406

Level: (low / med) Date Received: 09/18/04

% 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	6.7	B		P	
7440-38-2	Arsenic	5.4	U	N	P	R
7440-39-3	Barium	50.7	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	89400			P	
7440-47-3	Chromium	2.6	B		P	
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U	✓	P	
7439-89-6	Iron	82.8	B	✓	P	
7439-92-1	Lead	2.4	U	✓	P	
7439-95-4	Magnesium	27300		✓	P	
7439-96-5	Manganese	12.2	B	✓	P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	3890	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	1.1	B		P	
7440-23-5	Sodium	49400			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	
57-12-5	Cyanide	0.5	U		AS	

9/2/05
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.

SKSW521011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200407

Level: (low / med) Date Received: 09/18/04

% 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	R
7440-39-3	Barium	53.3	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	98000			P	
7440-47-3	Chromium	3.0	B		P	
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	88.8	B		P	
7439-92-1	Lead	2.4	U		P	
7439-95-4	Magnesium	26200			P	
7439-96-5	Manganese	28.1			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	3700	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	1.2	B		P	
7440-23-5	Sodium	51100			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	
57-12-5	Cyanide	0.5	U		AS	

9/2/05
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.

SKSWEB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200408

Level: (low / med) Date Received: 09/18/04

% 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	R
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	45.8	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	
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	R
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	340	U		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	
57-12-5	Cyanide	0.5	U		AS	

9/2/05
MSW

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.

SKFB1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200410

Level: (low / med) Date Received: 09/18/04

% 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	0.5	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	652	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	24.8	B		P	
7439-92-1	Lead	2.4	U		P	
7439-95-4	Magnesium	76.3	B		P	
7439-96-5	Manganese	2.1	B		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	E	P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	1.1	U		P	
7440-66-6	Zinc	3.1	B		P	J

9/2/05
MSR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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RESUBMITTED

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

EPA SAMPLE NO.

SKSW501011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200411

Level: (low / med) Date Received: 09/18/04

% 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	9.9	B		P	
7440-38-2	Arsenic	5.4	U		P	
7440-39-3	Barium	56.3	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	95700			P	
7440-47-3	Chromium	3.5	B		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	
7439-95-4	Magnesium	28500			P	
7439-96-5	Manganese	27.1			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	4340	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	1.3	B		P	
7440-23-5	Sodium	49200		E	P	J
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	4.0	B		P	
7440-66-6	Zinc	0.7	U		P	

9/2/05
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.

SKSW50MS1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200412

Level: (low / med) Date Received: 09/18/04

% 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	114			P	
7440-38-2	Arsenic	33.1			P	
7440-39-3	Barium	2080			P	
7440-41-7	Beryllium	52.3			P	
7440-43-9	Cadmium	49.1			P	
7440-70-2	Calcium	92300			P	
7440-47-3	Chromium	208			P	
7440-48-4	Cobalt	491			P	
7440-50-8	Copper	259			P	
7439-89-6	Iron	1040			P	
7439-92-1	Lead	16.7			P	
7439-95-4	Magnesium	27800			P	
7439-96-5	Manganese	544			P	
7439-97-6	Mercury	5.4			AV	
7440-02-0	Nickel	494			P	
7440-09-7	Potassium	4160	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	54.6			P	
7440-23-5	Sodium	47300		E	P	J
7440-28-0	Thallium	54.0			P	J
7440-62-2	Vanadium	527			P	
7440-66-6	Zinc	500			P	J

9/2/05
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.

SKSW50DUP1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200413

Level: (low / med) Date Received: 09/18/04

% 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	6.2	B		P	
7440-38-2	Arsenic	5.4	U		P	
7440-39-3	Barium	56.6	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	92900			P	
7440-47-3	Chromium	2.9	B		P	
7440-48-4	Cobalt	0.6	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	11.0	B		P	
7439-92-1	Lead	2.4	U		P	
7439-95-4	Magnesium	28500			P	
7439-96-5	Manganese	26.7			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	4230	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	1.1	B		P	
7440-23-5	Sodium	47700		E	P	J
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	4.5	B		P	
7440-66-6	Zinc	0.7	U		P	

9/2/05
MSK

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.

SKSW511011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200414

Level: (low / med) Date Received: 09/18/04

% 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	51.0	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	89300			P	
7440-47-3	Chromium	3.1	B		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	
7439-95-4	Magnesium	29300			P	
7439-96-5	Manganese	2.6	B		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	3960	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	1.2	B		P	
7440-23-5	Sodium	49200		E	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	

9/2/05
MSK

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.

SKSW521011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200415

Level: (low / med) Date Received: 09/18/04

% 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	8.8	B		P	
7440-38-2	Arsenic	5.4	U		P	
7440-39-3	Barium	54.3	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	96400			P	
7440-47-3	Chromium	3.0	B		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	
7439-95-4	Magnesium	27300			P	
7439-96-5	Manganese	24.0			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	3600	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	1.5	B		P	
7440-23-5	Sodium	49600		E	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	

9/2/05
MGW

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.

SKSWEB1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Matrix: (soil / water) Water Lab Sample ID: 20409200416

Level: (low / med) Date Received: 09/18/04

% 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	0.3	U		P
7440-70-2	Calcium	41.4	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
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
7440-22-4	Silver	0.9	U		P
7440-23-5	Sodium	340	U	E	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

R

9/2/05
MSW

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.: 204092004

Calibration Source: 125-10-1 CPI Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 09/29/04 Time: 1420

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	120	126	105	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	22.6	113	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	9.70	97	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	10.4	104	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	20.3	102	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	101	101	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	51.5	103	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	6.50	108	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	32.5	108	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	84.6	106	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	8.20	82	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	21.0	105	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	24.1	121	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	101	101	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	55.8	139	ug/L	ILM04.1 - CLP Metals	P

000407A

RESUBMITTED

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No : 204092004

Calibration Source: 125-10-1 CPI Instrument ID: ICP5 ICAL ID: 2

Date Analyzed: 09/29/04 Time: 1716

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	120	114	95	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	17.9	90	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	9.20	92	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	9.30	93	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	20.3	101	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	95.9	96	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	50.0	100	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	4.80	80	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	30.1	100	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	80.4	101	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	8.30	83	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	21.4	107	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	23.3	116	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	96.6	97	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	37.2	93	ug/L	ILM04.1 - CLP Metals	P

000407B

RESUBMITTED

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No : 204092004
Calibration Source: 125-10-1 CPI
Instrument ID: ICP5 ICAL ID: 3
Date Analyzed: 10/14/04 Time: 1725

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	120	120	100	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	18.4	92	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	9.50	95	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	9.90	99	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	20.0	100	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	102	102	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	54.2	108	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	5.00	84	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	33.1	110	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	86.7	108	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	9.00	90	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	22.0	110	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	16.9	85	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	100	100	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	47.2	118	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.: 204092004
Calibration Source: 125-10-1 CPI
Instrument ID: ICP5 ICAL ID: 3
Date Analyzed: 10/14/04 Time: 1957

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	120	120	100	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	18.1	90	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	9.40	94	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	9.40	94	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	20.4	102	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	99.0	99	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	52.2	104	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	6.30	104	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	34.1	114	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	84.3	105	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	9.70	97	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	21.5	108	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	16.7	83	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	98.9	99	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	54.5	136	ug/L	ILM04.1 - CLP Metals	P

000407D

RESUBMITTED

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Calibration Source: 125-10-1 CPI Instrument ID: ICP5 ICAL ID: 3

Date Analyzed: 10/14/04 Time: 2222

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	120	115	96	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	17.5	88	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	8.70	87	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	8.80	88	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	20.5	103	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	96.3	96	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	50.1	100	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	8.40	139	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	32.2	107	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	80.9	101	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	10.0	100	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	22.1	110	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	18.1	91	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	95.9	96	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	53.3	133	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.: 204092004
Calibration Source: 125-3-1 EXAXOL
Instrument ID: FIMS1 ICAL ID: 1
Date Analyzed: 09/25/04 Time: 0859

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Mercury	0.200	0.200	113	ug/L	ILM04.1 CLP HG	AV

000407F

ADDITION

U.S. EPA - CLP
3
BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

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	7.0	B	5.6	B	5.1	B	7.2	B	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	B	0.3	U	0.3	U	0.3	U	0.300	U	P
Calcium	7.3	U	7.3	U	7.3	U	7.3	U	56.492	B	P
Chromium	1.5	U	1.5	U	1.5	U	1.9	B	1.500	U	P
Cobalt	0.6	U	0.6	U	0.6	U	-0.6	B	0.600	U	P
Copper	1.2	U	1.2	U	1.2	U	1.2	U	1.200	U	P
Iron	9.1	U	9.1	U	9.1	U	-12.1	B	9.100	U	P
Lead	2.4	U	2.4	U	2.4	U	2.4	U	-3.017		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	-1.3	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	4.4	U	4.400	U	P
Silver	0.9	U	0.9	U	0.9	B	2.8	B	0.900	U	P
Sodium	339.7	U	339.7	U	339.7	U	339.7	U	-370.116	B	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	1.1	U	1.1	U	1.100	U	P
Zinc	0.7	U	-0.7	B	0.7	U	0.7	U	-0.897	B	P
Cyanide	0.5	U	0.5	U	0.5	U			0.500	U	AS

U.S. EPA - CLP
3
BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

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											P
Antimony											P
Arsenic											P
Barium											P
Beryllium											P
Cadmium											P
Calcium											P
Chromium											P
Cobalt											P
Copper											P
Iron											P
Lead											P
Magnesium											P
Manganese											P
Mercury			0.1	U	0.1	U					AV
Nickel											P
Potassium											P
Selenium											P
Silver											P
Sodium											P
Thallium											P
Vanadium											P
Zinc											P
Cyanide											AS

RESUBMITTED

U.S. EPA - CLP

3

BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

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) 7	C	8	C	9	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	5.0	B	4.8	B	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	B	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	B	0.3	U	0.300	U	P
Calcium	7.3	U	7.3	U	7.3	U	7.3	U	-12.951	B	P
Chromium	1.5	U	1.5	U	1.5	U	1.5	U	1.500	U	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	1.2	U	-1.3	B	1.200	U	P
Iron	9.1	U	9.1	U	-10.3	B	9.1	U	9.100	U	P
Lead	2.4	U	2.4	U	2.4	U	2.4	U	-3.501		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									0.100	U	
Nickel	1.1	U	1.1	U	1.1	U	1.1	U	1.102	B	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	12.3		4.400	U	P
Silver	0.9	U	0.9	U	0.9	U	0.9	U	0.900	U	P
Sodium	339.7	U	339.7	U	339.7	U	339.7	U	340.000	U	P
Thallium	8.9	B	6.3	U	6.3	U	6.3	U	6.300	U	P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Zinc	0.7	U	0.7	U	0.7	U	0.7	U	0.700	U	P
Cyanide											

RESUBMITTED

U.S. EPA - CLP
3
BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

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) 10	C	11	C	12	C	Prepa-ration Blank	C	M
Aluminum			55.3	U	55.3	U					P
Antimony			3.9	U	3.9	U					P
Arsenic			5.4	U	5.4	U					P
Barium			0.3	U	0.3	B					P
Beryllium			0.2	U	0.2	U					P
Cadmium			-0.4	B	-0.4	B					P
Calcium			11.0	B	7.3	U					P
Chromium			1.5	U	1.5	U					P
Cobalt			0.6	U	0.6	U					P
Copper			-1.4	B	-1.5	B					P
Iron			-13.4	B	-16.5	B					P
Lead			2.4	U	2.4	U					P
Magnesium			66.9	U	66.9	U					P
Manganese			0.6	U	0.6	U					P
Mercury											
Nickel			1.1	U	-1.7	B					P
Potassium			167.5	B	97.8	U					P
Selenium			5.7		10.2						P
Silver			0.9	U	1.1	B					P
Sodium			365.3	B	364.2	B					P
Thallium			6.3	U	7.0	B					P
Vanadium			1.1	U	1.1	U					P
Zinc			0.7	U	0.7	U					P
Cyanide											

RESUBMITTED

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSW50MS1011

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204092004

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20409200402 Original Lab Sample ID: 20409200403

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	2070		55.3	U	2000	103		P
Antimony	75	125	116		3.9	U	100	116		P
Arsenic	75	125	9.7	B	5.4	U	40.0	24	N	P
Barium	75	125	2180		57.6	B	2000	106		P
Beryllium	75	125	52.8		0.2	U	50.0	106		P
Cadmium	75	125	52.0		0.3	U	50.0	104		P
Chromium	75	125	213		2.9	B	200	105		P
Cobalt	75	125	504		0.6	U	500	101		P
Copper	75	125	263		1.2	U	250	105		P
Iron	75	125	1070		9.1	U	1000	107		P
Lead	75	125	21.1		2.4	U	20.0	105		P
Manganese	75	125	586		43.3		500	108		P
Mercury	75	125	5.1		0.1	U	5.0	103		AV
Nickel	75	125	518		1.1	U	500	104		P
Selenium	75	125	4.4	U	4.4	U	10.0	0	N	P
Silver	75	125	54.7		0.9	U	50.0	109		P
Thallium	75	125	46.3		6.3	U	50.0	93		P
Vanadium	75	125	532		1.1	U	500	106		P
Zinc	75	125	526		0.7	U	500	105		P
Cyanide	75	125	91.0		0.5	U	100	91		AS

Comments:

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKGW61MS1011

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204092004

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20409090316 Original Lab Sample ID: 20409090317

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	10100		7740		2000	119		P
Antimony	75	125	92.9		3.9	U	100	93		P
Arsenic	75	125	5.4	U	5.4	U	40.0	0	N	P
Barium	75	125	2290		155	B	2000	107		P
Beryllium	75	125	53.5		0.2	U	50.0	107		P
Cadmium	75	125	51.3		0.3	U	50.0	103		P
Chromium	75	125	229		15.0		200	107		P
Cobalt	75	125	505		8.2	B	500	99		P
Copper	75	125	277		12.6	B	250	106		P
Iron			28300		26200		1000	210		P
Lead	75	125	35.0		10.3		20.0	124		P
Manganese	75	125	1760		1190		500	113		P
Mercury	75	125	4.9		0.1	U	5.0	98		AV
Nickel	75	125	530		19.3	B	500	102		P
Selenium	75	125	4.4	U	4.4	U	10.0	0	N	P
Silver	75	125	51.6		0.9	U	50.0	103		P
Thallium	75	125	43.7		6.3	U	50.0	87		P
Vanadium	75	125	543		6.6	B	500	107		P
Zinc	75	125	593		56.9		500	107		P
Cyanide	75	125	85.8		0.5	U	100	85		AS

Comments:

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSW50MS1011 (DISS)

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204092004

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20409200411 Original Lab Sample ID: 20409200412

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		55.3	U	2000	106		P
Antimony	75	125	114		9.9	B	100	104		P
Arsenic	75	125	33.1		5.4	U	40.0	83		P
Barium	75	125	2080		56.3	B	2000	101		P
Beryllium	75	125	52.3		0.2	U	50.0	105		P
Cadmium	75	125	49.1		0.3	U	50.0	98		P
Chromium	75	125	208		3.5	B	200	102		P
Cobalt	75	125	491		0.6	U	500	98		P
Copper	75	125	259		1.2	U	250	104		P
Iron	75	125	1040		9.1	U	1000	104		P
Lead	75	125	16.7		2.4	U	20.0	83		P
Manganese	75	125	544		27.1		500	103		P
Mercury	75	125	5.4		0.1	U	5.0	108		AV
Nickel	75	125	494		1.1	U	500	99		P
Selenium	75	125	4.4	U	4.4	U	10.0	0	N	P
Silver	75	125	54.6		1.3	B	50.0	107		P
Thallium	75	125	54.0		6.3	U	50.0	108		P
Vanadium	75	125	527		4.0	B	500	105		P
Zinc	75	125	500		0.7	U	500	100		P

Comments:

RESUBMITTED

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKGW61MS1011 (DISS)

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204092004

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20409090322 Original Lab Sample ID: 20409090323

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		55.3	U	2000	106		P
Antimony	75	125	127		7.5	B	100	119		P
Arsenic	75	125	32.8		5.4	U	40.0	82		P
Barium	75	125	2170		65.0	B	2000	105		P
Beryllium	75	125	53.0		0.2	U	50.0	106		P
Cadmium	75	125	50.5		0.3	U	50.0	101		P
Chromium	75	125	216		3.8	B	200	106		P
Cobalt	75	125	505		1.3	B	500	101		P
Copper	75	125	266		1.2	U	250	106		P
Iron			5580		4410		1000	118		P
Lead	75	125	17.2		2.4	U	20.0	86		P
Manganese	75	125	1230		686		500	108		P
Mercury	75	125	4.4		0.1	U	5.0	89		AV
Nickel	75	125	511		4.0	B	500	101		P
Selenium	75	125	5.2		4.4	U	10.0	52	N	P
Silver	75	125	56.1		0.9	U	50.0	112		P
Thallium	75	125	53.8		8.2	B	50.0	91		P
Vanadium	75	125	550		4.4	B	500	109		P
Zinc	75	125	525		0.7	U	500	105		P

Comments:

000416B

ADDITION

U.S. EPA - CLP
5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSW501011 (DISS)PDS

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204092004

% Solids for Sample: Level: (low / med)

Original Lab Sample ID: 20409200411 Lab Sample ID:: 194212

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		9.9	B	120	95		P
Arsenic			6.7	B	5.4	U	20.0	33		P
Beryllium			9.2		0.2	U	10.0	92		P
Cadmium			8.3		0.3	U	10.0	83		P
Chromium			21.8		3.5	B	20.0	92		P
Cobalt			87.5		0.6	U	100	87		P
Copper			47.5		1.2	U	50.0	95		P
Lead			2.4	U	2.4	U	6.0	0		P
Manganese			55.6		27.1		30.0	95		P
Nickel			72.4		1.1	U	80.0	90		P
Selenium			6.0		4.4	U	10.0	60		P
Silver			20.1		1.3	B	20.0	94		P
Thallium			22.6		6.3	U	20.0	113		P
Vanadium			99.1		4.0	B	100	95		P
Zinc			32.0		0.7	U	40.0	80		P

Comments:

RESUBMITTED

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSW501011PDS

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204092004

% Solids for Sample: Level: (low / med)

Original Lab Sample ID: 20409200402 Lab Sample ID:: 200693

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			128		3.9	U	120	107		P
Arsenic			5.4	U	5.4	U	20.0	0		P
Beryllium			9.8		0.2	U	10.0	98		P
Cadmium			9.0		0.3	U	10.0	90		P
Chromium			24.2		2.9	B	20.0	107		P
Cobalt			98.1		0.6	U	100	98		P
Copper			51.6		1.2	U	50.0	103		P
Lead			7.6		2.4	U	6.0	127		P
Manganese			73.8		43.3		30.0	102		P
Nickel			78.0		1.1	U	80.0	97		P
Selenium			12.4		4.4	U	10.0	124		P
Silver			23.2		0.9	U	20.0	116		P
Thallium			16.4		6.3	U	20.0	82		P
Vanadium			104		1.1	U	100	104		P
Zinc			36.1		0.7	U	40.0	90		P

Comments:

RESUBMITTED

U.S. EPA - CLP
6
DUPLICATES

EPA SAMPLE NO
SKSW50DUP1011

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204092004

Level: (low / med)

% Solids for Sample: % Solids for Duplicate:

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	6.3	B	200		P
Arsenic	-	5.4	U	5.4	U	0		P
Barium	-	57.6	B	57.1	B	.9		P
Beryllium	-	0.2	U	0.2	U	0		P
Cadmium	-	0.3	U	0.3	U	0		P
Calcium	0 - 20	93400		94700		1		P
Chromium	-	2.9	B	2.7	B	7		P
Cobalt	-	0.6	U	0.6	U	0		P
Copper	-	1.2	U	1.2	U	0		P
Iron	-	9.1	U	9.4	B	200		P
Lead	-	2.4	U	2.4	U	0		P
Magnesium	0 - 20	26800		27300		2		P
Manganese	0 - 15	43.3		43.3		.03184		P
Mercury	-	0.1	U	0.1	U	0		AV
Nickel	-	1.1	U	1.1	U	0		P
Potassium	-	3910	B	3940	B	.8		P
Selenium	-	4.4	U	4.4	U	0		P
Silver	-	0.9	U	1.1	B	200		P
Sodium	0 - 20	48100		48900		2		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
Cyanide	-	0.5	U	0.5	U	0		AS

RESUBMITTED

U.S. EPA - CLP
6
DUPLICATES

EPA SAMPLE NO
SKSW50DUP1011 (DISS)

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204092004

Level: (low / med)

% Solids for Sample: % Solids for Duplicate:

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	-	9.9	B	6.2	B	46		P
Arsenic	-	5.4	U	5.4	U	0		P
Barium	-	56.3	B	56.6	B	.5		P
Beryllium	-	0.2	U	0.2	U	0		P
Cadmium	-	0.3	U	0.3	U	0		P
Calcium	0 - 20	95700		92900		3		P
Chromium	-	3.5	B	2.9	B	19		P
Cobalt	-	0.6	U	0.6	U	0		P
Copper	-	1.2	U	1.2	U	0		P
Iron	-	9.1	U	11.0	B	200		P
Lead	-	2.4	U	2.4	U	0		P
Magnesium	0 - 20	28500		28500		0		P
Manganese	0 - 15	27.1		26.7		.42746		P
Mercury	-	0.1	U	0.1	U	0		AV
Nickel	-	1.1	U	1.1	U	0		P
Potassium	-	4340	B	4230	B	3		P
Selenium	-	4.4	U	4.4	U	0		P
Silver	-	1.3	B	1.1	B	17		P
Sodium	0 - 20	49200		47700		3		P
Thallium	-	6.3	U	6.3	U	0		P
Vanadium	-	4.0	B	4.5	B	12		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.: 204092004

Solid LCS Source: Lab Sample ID: 193141

Aqueous LCS Source: 310006 HIGH PURITY~323003 HIGH

Analyte	Aqueous (ug/L) True	Found	% R	Solid (mg/kg) True	Found	C	% R
Aluminum	2000	2040	102				
Antimony	500	501	100				
Arsenic	2000	1980	99				
Barium	2000	2010	101				
Beryllium	50.0	50.2	100				
Cadmium	50.0	49.3	99				
Calcium	10000	10100	101				
Chromium	200	201	101				
Cobalt	500	482	96				
Copper	250	254	102				
Iron	1000	999	100				
Lead	500	499	100				
Magnesium	10000	9630	96				
Manganese	500	516	103				
Nickel	500	499	100				
Potassium	10000	10400	104				
Selenium	2000	1970	98				
Silver	50.0	51.9	104				
Sodium	10000	10700	107				
Thallium	2000	2080	104				
Vanadium	500	508	102				
Zinc	500	492	98				

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7

LABORATORY CONTROL SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Solid LCS Source: Lab Sample ID: 193143

Aqueous LCS Source: 310006 HIGH PURITY~323003 HIGH

Analyte	Aqueous (ug/L) True	Found	% R	Solid (mg/kg) True	Found	C	% R
Aluminum	2000	2140	107				
Antimony	500	534	107				
Arsenic	2000	2090	105				
Barium	2000	2060	103				
Beryllium	50.0	52.2	104				
Cadmium	50.0	51.9	104				
Calcium	10000	10700	107				
Chromium	200	212	106				
Cobalt	500	511	102				
Copper	250	264	106				
Iron	1000	1060	106				
Lead	500	523	105				
Magnesium	10000	10700	107				
Manganese	500	525	105				
Nickel	500	523	105				
Potassium	10000	10300	103				
Selenium	2000	2060	103				
Silver	50.0	55.3	111				
Sodium	10000	10200	102				
Thallium	2000	2130	107				
Vanadium	500	533	107				
Zinc	500	516	103				

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SKSW501011SD

Lab Name: GCAL

Lab Code: LA024 Case No. Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204092004

Lab Sample ID 194206

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	57.6	B	56.4	B	2.1		P
Beryllium	0.2	U	1.0	U			P
Cadmium	0.3	U	1.5	U			P
Calcium	93400		92600		0.9		P
Chromium	2.9	B	7.5	U	158.6		P
Cobalt	0.6	U	3.0	U			P
Copper	1.2	U	6.0	U			P
Iron	9.1	U	45.5	U			P
Lead	2.4	U	12.0	U			P
Magnesium	26800		27500		2.6		P
Manganese	43.3		42.7	B	1.4		P
Nickel	1.1	U	5.5	U			P
Potassium	3910	B	4050	B	3.6		P
Selenium	4.4	U	22.0	U			P
Silver	0.9	U	4.5	U			P
Sodium	48100		48200		0.2		P
Thallium	6.3	U	31.5	U			P
Vanadium	1.1	U	5.5	U			P
Zinc	0.7	U	3.9	B	457.1		P

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SKSW501011 (DISS)SD

Lab Name: GCAL

Lab Code: LA024 Case No. Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204092004

Lab Sample ID 194211

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	9.9	B	75.4	B	661.6		P
Arsenic	5.4	U	53.2		885.2		P
Barium	56.3	B	55.9	B	0.7		P
Beryllium	0.2	U	1.0	U			P
Cadmium	0.3	U	1.5	U			P
Calcium	95700		94600		1.1		P
Chromium	3.5	B	7.5	U	114.3		P
Cobalt	0.6	U	3.0	U			P
Copper	1.2	U	6.0	U			P
Iron	9.1	U	45.5	U			P
Lead	2.4	U	12.0	U			P
Magnesium	28500		28000		1.8		P
Manganese	27.1		28.2	B	4.1		P
Nickel	1.1	U	5.5	U			P
Potassium	4340	B	3480	B	19.8	E	P
Selenium	4.4	U	22.0	U			P
Silver	1.3	B	5.0	B	284.6		P
Sodium	49200		43700		11.2	E	P
Thallium	6.3	U	31.5	U			P
Vanadium	4.0	B	5.5	U	37.5		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.: 204092004

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

ICP CLP SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	9-21-04 13:55	BATCH NO:	280262
MATRIX:	WATER ☑ SOIL ☐	METHOD:	ILM04.1 CLP

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOL/WT (mL) g	FINAL VOLUME (mL)	SAMPLE DESCRIPTION (S) Color/Texture (W)Color/Clarity Before	After	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 280262 [DIGM/7144]	193142	50	50	colorless/clear	colorless/clear	HNO3
2	QC ACCOUNT	LCS for HBN 280262 [DIGM/7144]	193143			colorless/clear	colorless/clear	334-32-1
3	4342	SKGW06R1011 (DISS)	20409090309			colorless/clear	colorless/clear	HCL
4	4342	SKGW07R1011 (DISS)	20409090310			colorless/clear	colorless/clear	334-31-2.2
5	4342	SKGW631011 (DISS)	20409090311			colorless/clear	colorless/clear	H2O2
6	4342	SKGW63FD1011 (DISS)	20409090312			colorless/clear	colorless/clear	
7	4342	SKGW591011 (DISS)	20409090313			colorless/clear	colorless/clear	SPIKING SOLUTIONS (LCS)
8	4342	SKGW62A1011 (DISS)	20409090314			colorless/clear	colorless/clear	
9	4342	SKGW641011 (DISS)	20409090315			colorless/clear	colorless/clear	CLP1-A 50uL
10	4342	SKGW611011 (DISS)	20409090322			colorless/clear	colorless/clear	310006
11	4342	SKGW61MS1011 (DISS)	20409090323			colorless/clear	colorless/clear	CLP1-B 50uL
12	4342	SKGW61DUP1011 (DISS)	20409090324			colorless/clear	colorless/clear	310006
13	4342	SKGWEB1011 (DISS)	20409090325			colorless/clear	colorless/clear	CLP2 50uL
14	4342	SKFB1011 (DISS)	20409200410			colorless/clear	colorless/clear	323082
15	4342	SKSW501011 (DISS)	20409200411			colorless/clear	colorless/clear	CLP3 50uL
16	4342	SKSW50MS1011 (DISS)	20409200412			colorless/clear	colorless/clear	323003
17	4342	SKSW50DUP1011 (DISS)	20409200413			colorless/clear	colorless/clear	H1 Ca,Mg,K,Na 2500uL
18	4342	SKSW511011 (DISS)	20409200414			colorless/clear	colorless/clear	125-9-2
19	4342	SKSW521011 (DISS)	20409200415			colorless/clear	colorless/clear	SPIKING SOLUTIONS (MS)
20	4342	SKSWEB1011 (DISS)	20409200416			colorless/clear	colorless/clear	
21								CLP1-A 50uL
22								310006
23								CLP1-B 50uL
24								310006
25								CLP4 50uL
26								INCICP12131
27								
28								

COMMENTS: Diss were filtered in the field

BLOCK ID	TECHNICIAN	DATE
A	JE	9-21-04
REPIPET BOTTLES VERIFIED	REVIEW	DATE
JE	MAP	9-21-04

000540

RESUBMITTED

ICP CLP SAMPLE PREPARATION FORM

EXTRACTION DATE/TIME:	9-21-04 14:50	BATCH NO:	280261
MATRIX:	WATER ☑ SOIL ☐	METHOD:	ILM04.1 CLP

	CLIENT	CLIENT ID	GCAL ID	INITIAL VOLUME (mL) g	FINAL VOLUME (mL)	SAMPLE DESCRIPTION (S) Color/Texture (W)Color/Clarity Before	After	REAGENTS/ STANDARDS
1	QC ACCOUNT	MB for HBN 280261 [DIGM/7143]	193140	50	50	colorless/clear	colorless/clear	HNO3
2	QC ACCOUNT	LCS for HBN 280261 [DIGM/7143]	193141			colorless/clear	colorless/clear	334-32-1
3	4342	SKGW06R1011	20409090301			Brn/clear	Brn/clear	HCL
4	4342	SKGW07R1011	20409090302			Lt yellow	Lt yellow/clear	334-31-22
5	4342	SKGW631011	20409090303			Dr.brn/clear	Dr.brn/clear	H2O2
6	4342	SKGW63FD1011	20409090304			Dr.brn/clear	Dr.brn/clear	
7	4342	SKGW591011	20409090305			Lt yellow	Lt yellow/clear	SPIKING SOLUTIONS (LCS)
8	4342	SKGW62A1011	20409090306			colorless/cloudy	colorless/cloudy	
9	4342	SKGW641011	20409090307			Lt yellow/clear	Lt yellow/clear	CLP1-A 50uL
10	4342	SKGW611011	20409090316			Lt yellow/clear	Lt yellow/clear	310006
11	4342	SKGW61MS1011	20409090317			Lt yellow/clear	Lt yellow/clear	CLP1-B 50uL
12	4342	SKGWEB1011	20409090319			Lt yellow/clear	Lt yellow/clear	310006
13	4342	SKGW61DUP1011	20409090321			colorless/clear	colorless/clear	CLP2 50uL
14	4342	SKFB1011	20409200401			colorless/clear	colorless/clear	322002
15	4342	SKSW501011	20409200402			colorless/clear	colorless/clear	CLP3 50uL
16	4342	SKSW50MS1011	20409200403			colorless/clear	colorless/clear	322003
17	4342	SKSW50DUP1011	20409200405			colorless/clear	colorless/clear	IH Ca,Mg,K,Na 2500uL
18	4342	SKSW511011	20409200406			colorless/clear	colorless/clear	125-9-2
19	4342	SKSW521011	20409200407			colorless/clear	colorless/clear	SPIKING SOLUTIONS (MS)
20	4342	SKSWEB1011	20409200408			colorless/clear	colorless/clear	
21								CLP1-A 50uL
22								310006
23								CLP1-B 50uL
24								310006
25								CLP4 50uL
26								N-CICP12131
27								
28								

COMMENTS:

BLOCK ID	TECHNICIAN	DATE
B	JEL	9-21-04
REPIPET BOTTLES VERIFIED	REVIEW	DATE
JEL	MAT	9-21-04

000541
RESUBMITTED

U.S. EPA - CLP
14
ANALYSIS RUN LOG

000444
RESUBMITTED

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Instrument ID Number: ICP5 Method Type: P

Start Date: 09/29/04 End Date: 09/29/04

				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	1407		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICB	1	1413		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL	1	1420			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	1427		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1	1433		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1440		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1	1446		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MB193142	1	1454		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	1	1501																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	1507		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	5	1513																									
SKSW501011 (DISS)	1	1520		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW50DUP1011 (DISS)	1	1527		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW501011 (DISS)SD	5	1535		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKFB1011 (DISS)	1	1542		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSWEB1011 (DISS)	1	1549		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCS193143	1	1556		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1603		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1	1610		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	1	1625		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	1	1631																									
SKSW50MS1011 (DISS)	1	1637		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW501011 (DISS)PDS	1	1644		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	1	1651																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	1658																									
CRDL	1	1716			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	1723		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	

000445 RESUBMITTED

U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Instrument ID Number: ICP5 Method Type: P

Start Date: 09/29/04 End Date: 09/29/04

				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	1729		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1735		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1	1744		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

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ANALYSIS RUN LOG

000446 RESUBMITTED

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Instrument ID Number: ICP5 Method Type: P

Start Date: 10/14/04 End Date: 10/14/04

				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	1713		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICB	1	1719		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL	1	1725			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	1735		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1	1742		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1750		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1	1757		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MB193140	1	1802		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	1	1809																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	1815		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	5	1821																									
SKSW501011	1	1827		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW50DUP1011	1	1833		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW501011SD	5	1839		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKFB1011	1	1845		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSWEB1011	1	1851		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
LCS193141	1	1856		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1902		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1	1909		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	1	1914		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW50MS1011	1	1927		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	1	1939																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	1945																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	1951																									
CRDL	1	1957			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	2003		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1	2009		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

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ANALYSIS RUN LOG

000447 RESUBMITTED

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204092004

Instrument ID Number: ICP5 Method Type: P

Start Date: 10/14/04 End Date: 10/14/04

				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
CCV	1	2015		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1	2022		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	1	2028																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	2034																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	2040																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	2046																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	2052																									
SKSW511011	1	2058		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW521011	1	2104		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	1	2110																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	2116																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	2122																									
CCV	1	2128		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1	2134		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	1	2140																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	2146																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	2152																									
SKSW511011 (DISS)	1	2158		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKSW521011 (DISS)	1	2204		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	1	2210																									
SKSW501011PDS	1	2216																									
CRDL	1	2222			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	2228		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1	2234		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	2240		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1	2246		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 204090903

PROJECT MANAGER: Ron Rolker

Date: December 7, 2004

Revised Report Dated: August 31, 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 204090903 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in September 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) 204090903.

GCAL #	Sample Description
20409090301	SKGW06R1011
20409090302	SKGW07R1011
20409090303	SKGW631011
20409090304	SKGW63FD1011
20409090305	SKGW591011
20409090306	SKGW62A1011
20409090307	SKGW641011
20409090309	SKGW06R1011 (DISS)
20409090310	SKGW07R1011 (DISS)
20409090311	SKGW631011 (DISS)
20409090312	SKGW63FD1011 (DISS)
20409090313	SKGW591011 (DISS)
20409090314	SKGW62A1011 (DISS)
20409090315	SKGW641011 (DISS)
20409090316	SKGW611011
20409090317	SKGW611011 MS
20409090319	SKGWEB1011
20409090321	SKGW61DUP1011
20409090322	SKGW611011 (DISS)
20409090323	SKGW61MS1011 (DISS)
20409090324	SKGW61DUP1011 (DISS)
20409090325	SKGWEB1011 (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. The laboratory to denote specific information regarding the analytical results uses various qualifier codes.

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 Selenium in the CCB's 9, 10, and 11 and Lead in the PB. 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 samples should have been re-digested and re-analyzed for Lead and Selenium. The Selenium results were rejected do to the 0% recovery associated with the matrix spike therefore further data qualification was not warranted. If any analyte concentration in the PB is above the CRDL, the lowest concentration of that analyte in the associated samples must be 10 times the PB concentration. Otherwise, all samples associated with that PB with the analyte's concentration less than 10 times the PB concentration, and above the CRDL, should have been re-digested and re-analyzed for that analyte. The sample concentration is not to be corrected for the blank value.

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 SKGW611011 for the duplicate sample. 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, Copper, Lead, and Zinc. The Relative Percent Difference (RPD) between the sample and duplicate results in the dissolved fraction were within the acceptance criteria (<20%). As per the National Functional Guidelines, if the results from a duplicate analysis for a particular analyte fall outside the appropriate fixed control windows qualify the results for that analyte in all associated samples of the same matrix as estimated (J).

7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SKGW611011 for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) with the exception of Arsenic (0%) and Selenium (0%) in the total fraction and Selenium (52%) in the dissolved fraction. As per the National Functional Guidelines: if the percent recovery is greater than 10% but less than the lower acceptance criteria then qualify detected results for that analyte with "J" and non-detected results with "UJ". If the percent is less than 10% then qualify detected results 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 with the exception of Potassium and Sodium in the 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 groundwater results (totals) for Iron, Magnesium, and Manganese based on the RPD for duplicate samples. The RPD was within the acceptance criteria therefore the data validator crossed out the "*" qualifier associated with the Iron, Magnesium, and Manganese results (total).

GCAL qualified the groundwater results for Zinc (totals) based on the percent difference for the serial dilution. The percent difference was within the acceptance criteria therefore the data validator crossed out the "E" qualifier associated with the total Zinc results.

11. OVERALL ASSESSMENT

The percent recoveries for Lead in the Contract Required Detection Limit (CRDL) standards were 108%, 80%, 84%, 104%, and 139%.

The percent recoveries for Thallium in the Contract Required Detection Limit (CRDL) standards were 121%, 116%, 85%, 83%, and 91%.

The percent recoveries for Zinc in the Contract Required Detection Limit (CRDL) standards were 139%, 93.3%, 118%, 136%, and 133%.

If the CRDL is greater than 120% then detected results greater than the IDL but less than two times the CRDL are qualified as estimated with "J". If the CRDL is below 80% then detected results are qualified 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 204090903 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 September 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 204090903.

GCAL #	Sample Description
20409090301	SKGW06R1011
20409090302	SKGW07R1011
20409090303	SKGW631011
20409090304	SKGW63FD1011
20409090305	SKGW591011
20409090306	SKGW62A1011
20409090307	SKGW641011
20409090316	SKGW611011
20409090317	SKGW611011 MS
20409090318	SKGW611011 MSD
20409090319	SKGWEB1011

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. The laboratory to denote specific information regarding the analytical results uses various data qualifier codes. 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 9/22/04 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 Hexachlorocyclopentadiene (38.2%). The lowest point of the calibration curve was dropped for Hexachlorocyclopentadiene and the %RSD were recalculated. The recalculated %RSD were within the acceptance criteria of less than 30%. Hexachlorocyclopentadiene 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

Two CC's dated 9/22/04 and 9/27/04 were analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC's 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 9/22/04 were within the acceptance criteria. The percent difference (%D) between the average RRF's and the CC Response Factors for the CC dated 9/27/04 were within the acceptance criteria with the exception the %D for Di-n-octylphthalate. 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

One laboratory semivolatile method blank and Equipment Blank were analyzed with this SDG. The results are summarized below.

Method Blank (0913SBLK)

Bis-(2-ethylhexyl) phthalate (0.704 ppb) and Di-n-butylphthalate (0.684 ppb) were detected in method blank extracted on 9/13/04.

Equipment Blank (SKGWEB1011)

Bis-(2-ethylhexyl) phthalate (1.34 ppb) and Di-n-butylphthalate (0.84 ppb) were detected in the Equipment Blank collected on 9/9/04.

5. SYSTEM MONITORING COMPOUND RECOVERY

All reported semivolatile system monitoring compounds (SMC) were recovered within acceptable control limits with the exception of Trephenyl-d14 associated with samples SKGW631011 (31%) and SKGW63FD1011 (29%). As per the National Functional Guidelines, no action is taken when only one SMC is outside of the acceptance criteria.

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

Sample SKGW611011 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of the 4-Nitorphenol (95%) in the MS and 4-Nitorphenol (107 %) and Pentachlorophenol (104%) 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.

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 and the Date Extracted off of the CLP Form 1'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 compounds Bis-(2-ethylhexyl) phthalate and 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

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 204090903 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 September 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 204090903.

GCAL #	Sample Description
20409090301	SKGW06R1011
20409090302	SKGW07R1011
20409090303	SKGW631011
20409090304	SKGW63FD1011
20409090305	SKGW591011
20409090306	SKGW62A1011
20409090307	SKGW641011
20409090308	SKTB1011 (9/8/04)
20409090316	SKGW611011
20409090317	SKGW611011 MS
20409090318	SKGW611011 MSD
20409090319	SKGWEB1011
20409090320	SKTB1011 (9/9/04)

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. The laboratory to denote specific information regarding the analytical results uses various qualifier codes. 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 MSV0. Two bromofluorobenzene (BFB) tunes were run. The BFB tunes are acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 9/11/04 was analyzed on instrument MSV0 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 9/11/04 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone and. The %RSD's were within the acceptance criteria specified in the method for all target analytes. 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 9/11/04 and 9/12/04 were analyzed on instrument MSV0 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

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

MB1919955

Methylene chloride (0.12 ppb) was detected in the method blank analyzed on 9/11/04/04.

MB191996

There was no target compounds detected in the method blank analyzed on 9/12/04.

Storage Blank (VHBLK01)

Methylene chloride (0.12 ppb) was detected in the storage blank analyzed on 9/12/04.

Equipment Blank (SKEB1011)

Acetone (2.5 ppb), Methylene chloride (0.41 ppb), Toluene (0.20) and Xylenes (0.064 ppb) were detected in the Equipment Blank associated with the samples that were collected on 9/9/04. 2-Methyl-1-Propene was detected as a TIC at a concentration of 0.43 ppb.

Trip Blank SKTB1011 (20409090308)

Acetone (3.5 ppb), 2-Butanone (2.5 ppb), Methylene chloride (0.88 ppb), and Styrene (0.040 ppb) were detected in the Trip Blank associated with the samples that were collected on 9/8/04. 2-Methyl-1-Propene was detected as a TIC at a concentration of 0.46 ppb.

Trip Blank SKTB1011 (20409090320)

2-Butanone (2.7 ppb) and Methylene chloride (0.91 ppb) were detected in the Trip Blank associated with the samples that were collected on 9/9/04. 2-Methyl-1-Propene was detected as a TIC at a concentration of 0.45 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 SKGW611011 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria.

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 204090903 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 September 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 204090903.

GCAL #	Sample Description
20409090301	SKGW06R1011
20409090302	SKGW07R1011
20409090303	SKGW631011
20409090304	SKGW63FD1011
20409090305	SKGW591011
20409090306	SKGW62A1011
20409090307	SKGW641011
20409090316	SKGW611011
20409090317	SKGW611011 MS
20409090318	SKGW611011 MSD
20409090319	SKGWEB1011

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. The laboratory to denote specific information regarding the analytical results uses various qualifier codes.

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%. 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. The percent difference for each of the pesticides and surrogates in the midpoint concentration of the Individual Standard Mixtures A and B was within the acceptance criteria of ±25.0 percent with the exception of Heptachlor and Endrin. As per the National Functional Guidelines, if the percent difference is greater than 25 percent for the compound(s) being quantified, qualify all associated detected results with "J" and non-detects with "UJ".

5. BLANKS

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

<u>Method Blank 192012</u>

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 9/13/04.

Equipment Blank (SKGWEB1011)

No constituents were detected above the laboratory-reporting limit in the Equipment Blank collected on 9/9/04.

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 SKGW611011 was submitted for MS/MSD analysis. The MS/MSD percent recoveries were within the acceptance criteria with the exception of Endrin (128%) associated with the MSD. The %RPD between the MS/MSD are within the acceptance criteria. As per the National Functional Guidelines, no action is taken on the 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 therefore the data validator inserted the preparation method 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 10/15/2004

GCAL Report 204090903

Deliver To	Earth Tech 200 Vine Street Wilder, KY 41076 859-442-2300
Attn	Pat Higgins

Customer Earth Tech

Project Skinner Landfill

000001
RESUBMITTED

CASE NARRATIVE

Client: Earth Tech **Report:** 204090903

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.

SEMI-VOLATILES MASS SPECTROMETRY

In the OLM04.2 - CLP Semi-Volatiles analysis sample 20409090303 (SKGW631011) and 20409090304 (SKGW63FD1011) had one surrogate outside of control limits in the acid fraction.

In the OLM04.2 - CLP Semi-Volatiles analysis prep batch 279905 the MS/MSD exhibited sporadic recovery failures. These recoveries were within limits in the LCS. This is attributed to a matrix interference.

GC-SEMI-VOLATILES

In the analysis of the standard INDAM02 on the confirmatory column, Heptachlor and Endrin were high. No results were reported from this column.

In the analysis of sample 20409090318 (MSD), the recovery for Endrin was above the advisory QC limits. There were no target hits for this compound in the associated samples.

METALS

Selenium was detected in the continuing calibration blank for analytical batch 280835; however, Selenium was not detected above the reporting limit for samples associated with this QC; therefore, the data is reportable.

In the ILM04.1 - CLP Metals analysis for prep batch 280262, 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 a matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 119%.

In the ILM04.1 - CLP Metals analysis for prep batch 280261, 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 a matrix

interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 63%.

The MS recovery is not applicable for Iron for prep batch 280261 because the sample concentration is greater than four times the spike concentration.

The Sample/Duplicate RPD for Cyanide, Total for prep batch 279920 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

The Sample/Duplicate RPD for Antimony and Thallium for prep batch 280262 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

The Sample/Duplicate RPD for Chromium, Copper, Lead, Nickel, and Zinc for prep batch 280261 is not applicable because the sample and/or duplicate concentration is less than five times the reporting limit.

RESUBMITTED

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

EPA SAMPLE NO.

SKGW06R1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090301

Level: (low / med) Date Received: 09/09/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	37200		*	P	J
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	5.4	U	N	P	R
7440-39-3	Barium	821			P	
7440-41-7	Beryllium	2.1	B		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	576000			P	
7440-47-3	Chromium	58.5			P	
7440-48-4	Cobalt	46.5	B		P	
7440-50-8	Copper	97.2		*	P	J
7439-89-6	Iron	90600			P	
7439-92-1	Lead	88.1		*	P	J
7439-95-4	Magnesium	184000			P	
7439-96-5	Manganese	5750			P	
7439-97-6	Mercury	0.1	B		AV	
7440-02-0	Nickel	80.5			P	
7440-09-7	Potassium	9100			P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	24300			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	84.3			P	
7440-66-6	Zinc	283		*	P	J
57-12-5	Cyanide	0.7	B		AS	

9/1/05
MSM

Color Before: BROWN Clarity Before: CLEAR Texture:

Color After: BROWN Clarity After: CLEAR Artifacts:

Comments:

000582
RESUBMITTED

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

EPA SAMPLE NO.

SKGW07R1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090302

Level: (low / med) Date Received: 09/09/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	8270		*	P	J
7440-36-0	Antimony	5.1	B		P	
7440-38-2	Arsenic	5.4	U	N	P	R
7440-39-3	Barium	469			P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	250000			P	
7440-47-3	Chromium	13.4			P	
7440-48-4	Cobalt	6.2	B		P	
7440-50-8	Copper	15.3	B	*	P	J
7439-89-6	Iron	20200			P	
7439-92-1	Lead	11.4		*	P	J
7439-95-4	Magnesium	45900			P	
7439-96-5	Manganese	1400			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	12.7	B		P	
7440-09-7	Potassium	4770	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	32400			P	
7440-28-0	Thallium	7.0	B		P	
7440-62-2	Vanadium	9.2	B		P	
7440-66-6	Zinc	46.9		*	P	J
57-12-5	Cyanide	0.7	B		AS	

9/15/05
msa

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

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

Comments:

RESUBMITTED

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW631011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090303

Level: (low / med) Date Received: 09/09/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	37200		*	P	J
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	5.4	U	N	P	R
7440-39-3	Barium	279			P	
7440-41-7	Beryllium	1.4	B		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	569000			P	
7440-47-3	Chromium	52.0			P	
7440-48-4	Cobalt	41.1	B		P	
7440-50-8	Copper	64.0		*	P	J
7439-89-6	Iron	84700			P	
7439-92-1	Lead	57.4		*	P	J
7439-95-4	Magnesium	121000			P	
7439-96-5	Manganese	5250			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	83.3			P	
7440-09-7	Potassium	15500			P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	100000			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	58.7			P	
7440-66-6	Zinc	243		*E	P	J
57-12-5	Cyanide	0.7	B		AS	

9/1/05
MSL

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

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

Comments:

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

EPA SAMPLE NO.

SKGW63FD1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090304

Level: (low / med) Date Received: 09/09/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	32800		*	P	J
7440-36-0	Antimony	11.7	B		P	
7440-38-2	Arsenic	5.4	U	N	P	R
7440-39-3	Barium	256			P	
7440-41-7	Beryllium	1.2	B		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	658000			P	
7440-47-3	Chromium	45.8			P	
7440-48-4	Cobalt	37.8	B		P	
7440-50-8	Copper	48.8		*	P	J
7439-89-6	Iron	77400			P	
7439-92-1	Lead	50.1		*	P	J
7439-95-4	Magnesium	133000			P	
7439-96-5	Manganese	5410			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	72.5			P	
7440-09-7	Potassium	15900			P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	104000			P	
7440-28-0	Thallium	9.2	B		P	
7440-62-2	Vanadium	52.1			P	
7440-66-6	Zinc	223		*E	P	J
57-12-5	Cyanide	0.8	B		AS	

spike
msu

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

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

Comments:

000585
RESUBMITTED

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

EPA SAMPLE NO.

SKGW591011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090305

Level: (low / med) Date Received: 09/09/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	4300		*	P	J
7440-36-0	Antimony	4.9	B		P	
7440-38-2	Arsenic	5.4	U	~~N~~	P	R
7440-39-3	Barium	214			P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	276000			P	
7440-47-3	Chromium	22.8			P	
7440-48-4	Cobalt	8.4	B		P	
7440-50-8	Copper	6.5	B	*	P	J
7439-89-6	Iron	14000		/	P	
7439-92-1	Lead	11.7		*	P	J
7439-95-4	Magnesium	58000		/	P	
7439-96-5	Manganese	1180		/	P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	19.0	B		P	
7440-09-7	Potassium	28600			P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	184000			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	1.2	B		P	
7440-66-6	Zinc	34.4		* ~~E~~	P	J
57-12-5	Cyanide	0.5	B		AS	

9/1/05
MSL

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

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

Comments:

RESUBMITTED

U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW62A1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090306

Level: (low / med) Date Received: 09/09/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	5690		*	P	J
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	5.4	U	N	P	R
7440-39-3	Barium	237			P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	200000			P	
7440-47-3	Chromium	17.8			P	
7440-48-4	Cobalt	6.2	B		P	
7440-50-8	Copper	9.6	B	*	P	J
7439-89-6	Iron	14200			P	
7439-92-1	Lead	16.8		*	P	J
7439-95-4	Magnesium	57400			P	
7439-96-5	Manganese	608			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	12.3	B		P	
7440-09-7	Potassium	12000			P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	121000			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	1.9	B		P	
7440-66-6	Zinc	42.9		* E	P	J
57-12-5	Cyanide	0.6	B		AS	

9/1/05
MSK

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000587
RESUBMITTED

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

EPA SAMPLE NO.

SKGW641011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090307

Level: (low / med) Date Received: 09/09/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	14600		*	P	J
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	5.4	U	N	P	R
7440-39-3	Barium	59.8	B		P	
7440-41-7	Beryllium	0.3	B		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	224000			P	
7440-47-3	Chromium	24.3			P	
7440-48-4	Cobalt	13.6	B		P	
7440-50-8	Copper	14.9	B	*	P	J
7439-89-6	Iron	34500		~~*~~	P	
7439-92-1	Lead	14.4		*	P	J
7439-95-4	Magnesium	67300		~~*~~	P	
7439-96-5	Manganese	1460		~~*~~	P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	32.3	B		P	
7440-09-7	Potassium	23500			P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	63100			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	16.0	B		P	
7440-66-6	Zinc	70.3		~~*E~~	P	J
57-12-5	Cyanide	1.2	B		AS	

9/1/05
MSA

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.

SKGW06R1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090309

Level: (low / med) Date Received: 09/09/04

% 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	10.6	B		P	
7440-38-2	Arsenic	5.4	U		P	
7440-39-3	Barium	329			P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	205000			P	
7440-47-3	Chromium	3.7	B		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	
7439-95-4	Magnesium	32100			P	
7439-96-5	Manganese	124			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.2	B		P	
7440-09-7	Potassium	3340	B	E	P	J
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	2.5	B		P	
7440-23-5	Sodium	20900		E	P	J
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	3.5	B		P	
7440-66-6	Zinc	0.7	U		P	

9/1/05
nsh

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.

SKGW07R1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090310

Level: (low / med) Date Received: 09/09/04

% 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	118	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	205000			P	
7440-47-3	Chromium	3.3	B		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	
7439-95-4	Magnesium	29400			P	
7439-96-5	Manganese	418			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	3010	B	E	P	J
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.9	B		P	
7440-23-5	Sodium	32600		E	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	

9/1/05 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.

SKGW631011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090311

Level: (low / med) Date Received: 09/09/04

% 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	5.7	B		P	
7440-38-2	Arsenic	5.4	U		P	
7440-39-3	Barium	50.6	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	292000			P	
7440-47-3	Chromium	4.7	B		P	
7440-48-4	Cobalt	2.9	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	1150			P	
7439-92-1	Lead	2.4	U		P	
7439-95-4	Magnesium	63300			P	
7439-96-5	Manganese	2610			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	4.0	B		P	
7440-09-7	Potassium	9090		E	P	J
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.9	B		P	
7440-23-5	Sodium	99800		E	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	

9/1/05
mcc

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.

SKGW63FD1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090312

Level: (low / med) Date Received: 09/09/04

% 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	6.3	B		P	
7440-38-2	Arsenic	5.4	U		P	
7440-39-3	Barium	48.6	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	293000			P	
7440-47-3	Chromium	4.9	B		P	
7440-48-4	Cobalt	2.7	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	1150			P	
7439-92-1	Lead	2.4	U		P	
7439-95-4	Magnesium	69700			P	
7439-96-5	Manganese	2360			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	3.8	B		P	
7440-09-7	Potassium	9360		E	P	J
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	1.1	B		P	
7440-23-5	Sodium	96800		E	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	

9/1/05 MR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000592
RESUBMITTED

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

EPA SAMPLE NO.

SKGW591011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090313

Level: (low / med) Date Received: 09/09/04

% 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	28.6	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	238000			P	
7440-47-3	Chromium	4.4	B		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	
7439-95-4	Magnesium	53500			P	
7439-96-5	Manganese	13.6	B		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	25200		E	P	J
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	1.2	B		P	
7440-23-5	Sodium	179000		E	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	

9/10/05
MSM

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.

SKGW62A1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090314

Level: (low / med) Date Received: 09/09/04

% 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	5.4	B		P	
7440-38-2	Arsenic	5.4	U		P	
7440-39-3	Barium	111	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	132000			P	
7440-47-3	Chromium	4.5	B		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	
7439-95-4	Magnesium	49400			P	
7439-96-5	Manganese	29.2			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.1	U		P	
7440-09-7	Potassium	10000		E	P	J
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	1.6	B		P	
7440-23-5	Sodium	120000		E	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	

9/1/05
MSK

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.

SKGW641011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090315

Level: (low / med) Date Received: 09/09/04

% 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	7.1	B		P	
7440-38-2	Arsenic	5.4	U		P	
7440-39-3	Barium	26.6	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	184000			P	
7440-47-3	Chromium	6.0	B		P	
7440-48-4	Cobalt	0.9	B		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	
7439-95-4	Magnesium	59600			P	
7439-96-5	Manganese	100			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.8	B		P	
7440-09-7	Potassium	20400		E	P	J
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	1.1	B		P	
7440-23-5	Sodium	64400		E	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	

9/1/05
MSA

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.

SKGW611011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090316

Level: (low / med) Date Received: 09/10/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	7740		*	P	J
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	5.4	U	N	P	R
7440-39-3	Barium	155	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	278000			P	
7440-47-3	Chromium	15.0			P	
7440-48-4	Cobalt	8.2	B		P	
7440-50-8	Copper	12.6	B	*	P	J
7439-89-6	Iron	26200			P	
7439-92-1	Lead	10.3		*	P	J
7439-95-4	Magnesium	59700			P	
7439-96-5	Manganese	1190			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	19.3	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	32800			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	6.6	B		P	
7440-66-6	Zinc	56.9		*	P	
57-12-5	Cyanide	0.8	B		AS	

9/1/05
MSE

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

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

Comments:

000596

RESUBMITTED

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

EPA SAMPLE NO.

SKGW61MS1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090317

Level: (low / med) Date Received: 09/10/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	10100		*	P	J
7440-36-0	Antimony	92.9			P	
7440-38-2	Arsenic	5.4	U	N	P	R
7440-39-3	Barium	2290			P	
7440-41-7	Beryllium	53.5			P	
7440-43-9	Cadmium	51.3			P	
7440-70-2	Calcium	292000			P	
7440-47-3	Chromium	229			P	
7440-48-4	Cobalt	505			P	
7440-50-8	Copper	277		*	P	J
7439-89-6	Iron	28300		~~*~~	P	
7439-92-1	Lead	35.0		*	P	J
7439-95-4	Magnesium	64800		~~*~~	P	
7439-96-5	Manganese	1760		~~*~~	P	
7439-97-6	Mercury	4.9			AV	
7440-02-0	Nickel	530			P	
7440-09-7	Potassium	11200			P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	51.6			P	
7440-23-5	Sodium	33700			P	
7440-28-0	Thallium	43.7			P	
7440-62-2	Vanadium	543			P	
7440-66-6	Zinc	593		~~*E~~	P	J
57-12-5	Cyanide	85.8			AS	

9/1/05
MSR

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.

SKGWEB1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090319

Level: (low / med) Date Received: 09/10/04

% 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	R
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	54.7	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	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	R
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	340	U		P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	1.1	U		P	
7440-66-6	Zinc	0.7	U	*,E	P	
57-12-5	Cyanide	0.5	B		AS	

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.

SKGW61DUP1011

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090321

Level: (low / med) Date Received: 09/10/04

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	11800		*	P	J
7440-36-0	Antimony	3.9	U		P	
7440-38-2	Arsenic	5.4	U	N	P	R
7440-39-3	Barium	176	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	286000			P	
7440-47-3	Chromium	18.7			P	
7440-48-4	Cobalt	8.2	B		P	
7440-50-8	Copper	71.8		*	P	J
7439-89-6	Iron	30100			P	
7439-92-1	Lead	14.6		*	P	J
7439-95-4	Magnesium	62200			P	
7439-96-5	Manganese	1260			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	24.8	B		P	
7440-09-7	Potassium	12800			P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	33500			P	
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	12.2	B		P	
7440-66-6	Zinc	110		*~~E~~	P	J
57-12-5	Cyanide	1.7	B		AS	

9/1/05
MGA

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.

SKGW611011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090322

Level: (low / med) Date Received: 09/10/04

% 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	7.5	B		P	
7440-38-2	Arsenic	5.4	U		P	
7440-39-3	Barium	65.0	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	199000			P	
7440-47-3	Chromium	3.8	B		P	
7440-48-4	Cobalt	1.3	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	4410			P	
7439-92-1	Lead	2.4	U		P	
7439-95-4	Magnesium	40500			P	
7439-96-5	Manganese	686			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	4.0	B		P	
7440-09-7	Potassium	8690		E	P	J
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	28400		E	P	J
7440-28-0	Thallium	8.2	B		P	
7440-62-2	Vanadium	4.4	B		P	
7440-66-6	Zinc	0.7	U		P	

9/1/05
MSL

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.

SKGW61MS1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090323

Level: (low / med) Date Received: 09/10/04

% 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	127			P	
7440-38-2	Arsenic	32.8			P	
7440-39-3	Barium	2170			P	
7440-41-7	Beryllium	53.0			P	
7440-43-9	Cadmium	50.5			P	
7440-70-2	Calcium	203000			P	
7440-47-3	Chromium	216			P	
7440-48-4	Cobalt	505			P	
7440-50-8	Copper	266			P	
7439-89-6	Iron	5580			P	
7439-92-1	Lead	17.2			P	
7439-95-4	Magnesium	40600			P	
7439-96-5	Manganese	1230			P	
7439-97-6	Mercury	4.4			AV	
7440-02-0	Nickel	511			P	
7440-09-7	Potassium	9280		E	P	J
7782-49-2	Selenium	5.2		N	P	UJ
7440-22-4	Silver	56.1			P	
7440-23-5	Sodium	29700		E	P	J
7440-28-0	Thallium	53.8			P	
7440-62-2	Vanadium	550			P	
7440-66-6	Zinc	525			P	

9/1/05
MSL

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000601
RESUBMITTED

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

EPA SAMPLE NO.

SKGW61DUP1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090324

Level: (low / med) Date Received: 09/10/04

% 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	15.5	B		P	
7440-38-2	Arsenic	5.4	U		P	
7440-39-3	Barium	64.5	B		P	
7440-41-7	Beryllium	0.2	U		P	
7440-43-9	Cadmium	0.3	U		P	
7440-70-2	Calcium	203000			P	
7440-47-3	Chromium	3.5	B		P	
7440-48-4	Cobalt	1.5	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	4570			P	
7439-92-1	Lead	2.4	U		P	
7439-95-4	Magnesium	41800			P	
7439-96-5	Manganese	689			P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	3.6	B		P	
7440-09-7	Potassium	8980		E	P	J
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.9	U		P	
7440-23-5	Sodium	29200		E	P	J
7440-28-0	Thallium	6.3	U		P	
7440-62-2	Vanadium	4.6	B		P	
7440-66-6	Zinc	0.7	U		P	

9/1/05
MSL

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.

SKGWEB1011 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Matrix: (soil / water) Water Lab Sample ID: 20409090325

Level: (low / med) Date Received: 09/10/04

% 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		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	94.9	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
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	E	P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.9	U		P
7440-23-5	Sodium	340	U	E	P
7440-28-0	Thallium	6.3	U		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	1.0	B		P

4J

9/1/05
MR

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.: 204090903
Calibration Source: 125-10-1 CPI
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 09/29/04 Time: 1420

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	120	126	105	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	22.6	113	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	9.70	97	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	10.4	104	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	20.3	102	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	101	101	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	51.5	103	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	6.50	108	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	32.5	108	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	84.6	106	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	8.20	82	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	21.0	105	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	24.1	121	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	101	101	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	55.8	139	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.: 204090903
Calibration Source: 125-10-1 CPI
Instrument ID: ICP5 ICAL ID: 2
Date Analyzed: 09/29/04 Time: 1716

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	120	114	95	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	17.9	90	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	9.20	92	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	9.30	93	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	20.3	101	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	95.9	96	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	50.0	100	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	4.80	80	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	30.1	100	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	80.4	101	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	8.30	83	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	21.4	107	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	23.3	116	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	96.6	97	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	37.2	93	ug/L	ILM04.1 - CLP Metals	P

000607B
ADDITION

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: GCAL
Contract:
Lab Code: LA024 Case No.:
SAS No.: SDG No : 204090903
Calibration Source: 125-10-1 CPI
Instrument ID: ICP5 ICAL ID: 3
Date Analyzed: 10/14/04 Time: 1725

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	120	120	100	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	18.4	92	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	9.50	95	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	9.90	99	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	20.0	100	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	102	102	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	54.2	108	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	5.00	84	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	33.1	110	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	86.7	108	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	9.00	90	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	22.0	110	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	16.9	85	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	100	100	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	47.2	118	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.: 204090903
Calibration Source: 125-10-1 CPI
Instrument ID: ICP5 ICAL ID: 3
Date Analyzed: 10/14/04 Time: 1957

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	120	120	100	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	18.1	90	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	9.40	94	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	9.40	94	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	20.4	102	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	99.0	99	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	52.2	104	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	6.30	104	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	34.1	114	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	84.3	105	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	9.70	97	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	21.5	108	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	16.7	83	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	98.9	99	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	54.5	136	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.: 204090903

Calibration Source: 125-10-1 CPI Instrument ID: ICP5 ICAL ID: 3

Date Analyzed: 10/14/04 Time: 2222

CRDL STANDARD

Analyte	True	Found	CAL %R	Units	Method	Type
Antimony	120	115	96	ug/L	ILM04.1 - CLP Metals	P
Arsenic	20.0	17.5	88	ug/L	ILM04.1 - CLP Metals	P
Beryllium	10.0	8.70	87	ug/L	ILM04.1 - CLP Metals	P
Cadmium	10.0	8.80	88	ug/L	ILM04.1 - CLP Metals	P
Chromium	20.0	20.5	103	ug/L	ILM04.1 - CLP Metals	P
Cobalt	100	96.3	96	ug/L	ILM04.1 - CLP Metals	P
Copper	50.0	50.1	100	ug/L	ILM04.1 - CLP Metals	P
Lead	6.00	8.40	139	ug/L	ILM04.1 - CLP Metals	P
Manganese	30.0	32.2	107	ug/L	ILM04.1 - CLP Metals	P
Nickel	80.0	80.9	101	ug/L	ILM04.1 - CLP Metals	P
Selenium	10.0	10.0	100	ug/L	ILM04.1 - CLP Metals	P
Silver	20.0	22.1	110	ug/L	ILM04.1 - CLP Metals	P
Thallium	20.0	18.1	91	ug/L	ILM04.1 - CLP Metals	P
Vanadium	100	95.9	96	ug/L	ILM04.1 - CLP Metals	P
Zinc	40.0	53.3	133	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.: 204090903
Calibration Source: 125-3-1 EXAXOL
Instrument ID: FIMS1 ICAL ID: 1
Date Analyzed: 09/25/04 Time: 0859

CRDL STANDARD

Analyte	*True*	*Found*	*CAL %R*	*Units*	*Method*	*Type*
Mercury	0.200	0.200	113	ug/L	ILM04.1 CLP HG	AV

U.S. EPA - CLP
3
BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

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	7.0	B	5.6	B	5.1	B	7.2	B	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	B	0.3	U	0.3	U	0.3	U	0.300	U	P
Calcium	7.3	U	7.3	U	7.3	U	7.3	U	56.492	B	P
Chromium	1.5	U	1.5	U	1.5	U	1.9	B	1.500	U	P
Cobalt	0.6	U	0.6	U	0.6	U	-0.6	B	0.600	U	P
Copper	1.2	U	1.2	U	1.2	U	1.2	U	1.200	U	P
Iron	9.1	U	9.1	U	9.1	U	-12.1	B	9.100	U	P
Lead	2.4	U	2.4	U	2.4	U	2.4	U	-3.017		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	-1.3	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	4.4	U	4.400	U	P
Silver	0.9	U	0.9	U	0.9	B	2.8	B	0.900	U	P
Sodium	339.7	U	339.7	U	339.7	U	339.7	U	-370.116	B	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	1.1	U	1.1	U	1.100	U	P
Zinc	0.7	U	-0.7	B	0.7	U	0.7	U	-0.897	B	P
Cyanide	0.0	B	0.0	B	0.0	B	0.0	B	0.250	B	AS

000608
RESUBMITTED

U.S. EPA - CLP
3
BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

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											P
Antimony											P
Arsenic											P
Barium											P
Beryllium											P
Cadmium											P
Calcium											P
Chromium											P
Cobalt											P
Copper											P
Iron											P
Lead											P
Magnesium											P
Manganese											P
Mercury			0.1	U	0.1	U					AV
Nickel											P
Potassium											P
Selenium											P
Silver											P
Sodium											P
Thallium											P
Vanadium											P
Zinc											P
Cyanide			0.0	B							AS

000609
RESUBMITTED

U.S. EPA - CLP
3
BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

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) 7	C	8	C	9	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	5.0	B	4.8	B	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	B	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	B	0.3	U	0.300	U	P
Calcium	7.3	U	7.3	U	7.3	U	7.3	U	-12.951	B	P
Chromium	1.5	U	1.5	U	1.5	U	1.5	U	1.500	U	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	1.2	U	-1.3	B	1.200	U	P
Iron	9.1	U	9.1	U	-10.3	B	9.1	U	9.100	U	P
Lead	2.4	U	2.4	U	2.4	U	2.4	U	-3.501		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									0.100	U	
Nickel	1.1	U	1.1	U	1.1	U	1.1	U	1.102	B	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	12.3		4.400	U	P
Silver	0.9	U	0.9	U	0.9	U	0.9	U	0.900	U	P
Sodium	339.7	U	339.7	U	339.7	U	339.7	U	340.000	U	P
Thallium	8.9	B	6.3	U	6.3	U	6.3	U	6.300	U	P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Zinc	0.7	U	0.7	U	0.7	U	0.7	U	0.700	U	P
Cyanide											

RESUBMITTED

U.S. EPA - CLP
3
BLANKS

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

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) 10	C	11	C	12	C	Prepa-ration Blank	C	M
Aluminum			55.3	U	55.3	U					P
Antimony			3.9	U	3.9	U					P
Arsenic			5.4	U	5.4	U					P
Barium			0.3	U	0.3	B					P
Beryllium			0.2	U	0.2	U					P
Cadmium			-0.4	B	-0.4	B					P
Calcium			11.0	B	7.3	U					P
Chromium			1.5	U	1.5	U					P
Cobalt			0.6	U	0.6	U					P
Copper			-1.4	B	-1.5	B					P
Iron			-13.4	B	-16.5	B					P
Lead			2.4	U	2.4	U					P
Magnesium			66.9	U	66.9	U					P
Manganese			0.6	U	0.6	U					P
Mercury											
Nickel			1.1	U	-1.7	B					P
Potassium			167.5	B	97.8	U					P
Selenium			5.7		10.2						P
Silver			0.9	U	1.1	B					P
Sodium			365.3	B	364.2	B					P
Thallium			6.3	U	7.0	B					P
Vanadium			1.1	U	1.1	U					P
Zinc			0.7	U	0.7	U					P
Cyanide											

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKGW61MS1011

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204090903

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20409090316 Original Lab Sample ID: 20409090317

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	10100		7740		2000	119		P
Antimony	75	125	92.9		3.9	U	100	93		P
Arsenic	75	125	5.4	U	5.4	U	40.0	0	N	P
Barium	75	125	2290		155	B	2000	107		P
Beryllium	75	125	53.5		0.2	U	50.0	107		P
Cadmium	75	125	51.3		0.3	U	50.0	103		P
Chromium	75	125	229		15.0		200	107		P
Cobalt	75	125	505		8.2	B	500	99		P
Copper	75	125	277		12.6	B	250	106		P
Iron			28300		26200		1000	210		P
Lead	75	125	35.0		10.3		20.0	124		P
Manganese	75	125	1760		1190		500	113		P
Mercury	75	125	4.9		0.1	U	5.0	98		AV
Nickel	75	125	530		19.3	B	500	102		P
Selenium	75	125	4.4	U	4.4	U	10.0	0	N	P
Silver	75	125	51.6		0.9	U	50.0	103		P
Thallium	75	125	43.7		6.3	U	50.0	87		P
Vanadium	75	125	543		6.6	B	500	107		P
Zinc	75	125	593		56.9		500	107		P
Cyanide	75	125	85.8		0.8	B	100	85		AS

Comments:

RESUBMITTED

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKGW61MS1011 (DISS)

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204090903

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20409090322 Original Lab Sample ID: 20409090323

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		55.3	U	2000	106		P
Antimony	75	125	127		7.5	B	100	119		P
Arsenic	75	125	32.8		5.4	U	40.0	82		P
Barium	75	125	2170		65.0	B	2000	105		P
Beryllium	75	125	53.0		0.2	U	50.0	106		P
Cadmium	75	125	50.5		0.3	U	50.0	101		P
Chromium	75	125	216		3.8	B	200	106		P
Cobalt	75	125	505		1.3	B	500	101		P
Copper	75	125	266		1.2	U	250	106		P
Iron			5580		4410		1000	118		P
Lead	75	125	17.2		2.4	U	20.0	86		P
Manganese	75	125	1230		686		500	108		P
Mercury	75	125	4.4		0.1	U	5.0	89		AV
Nickel	75	125	511		4.0	B	500	101		P
Selenium	75	125	5.2		4.4	U	10.0	52	N	P
Silver	75	125	56.1		0.9	U	50.0	112		P
Thallium	75	125	53.8		8.2	B	50.0	91		P
Vanadium	75	125	550		4.4	B	500	109		P
Zinc	75	125	525		0.7	U	500	105		P

Comments:

RESUBMITTED

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSW50MS1011

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204090903

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20409200402 Original Lab Sample ID: 20409200403

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	2070		55.3	U	2000	103		P
Antimony	75	125	116		3.9	U	100	116		P
Arsenic	75	125	9.7	B	5.4	U	40.0	24	N	P
Barium	75	125	2180		57.6	B	2000	106		P
Beryllium	75	125	52.8		0.2	U	50.0	106		P
Cadmium	75	125	52.0		0.3	U	50.0	104		P
Chromium	75	125	213		2.9	B	200	105		P
Cobalt	75	125	504		0.6	U	500	101		P
Copper	75	125	263		1.2	U	250	105		P
Iron	75	125	1070		9.1	U	1000	107		P
Lead	75	125	21.1		2.4	U	20.0	105		P
Manganese	75	125	586		43.3		500	108		P
Mercury	75	125	5.1		0.1	U	5.0	103		AV
Nickel	75	125	518		1.1	U	500	104		P
Selenium	75	125	4.4	U	4.4	U	10.0	0	N	P
Silver	75	125	54.7		0.9	U	50.0	109		P
Thallium	75	125	46.3		6.3	U	50.0	93		P
Vanadium	75	125	532		1.1	U	500	106		P
Zinc	75	125	526		0.7	U	500	105		P
Cyanide	75	125	91.0		0.5	U	100	91		AS

Comments:

RESUBMITTED

U.S. EPA - CLP

5A

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKSW50MS1011 (DISS)

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204090903

% Solids for Sample: Level (low/med) :

Lab Sample ID: 20409200411 Original Lab Sample ID: 20409200412

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		55.3	U	2000	106		P
Antimony	75	125	114		9.9	B	100	104		P
Arsenic	75	125	33.1		5.4	U	40.0	83		P
Barium	75	125	2080		56.3	B	2000	101		P
Beryllium	75	125	52.3		0.2	U	50.0	105		P
Cadmium	75	125	49.1		0.3	U	50.0	98		P
Chromium	75	125	208		3.5	B	200	102		P
Cobalt	75	125	491		0.6	U	500	98		P
Copper	75	125	259		1.2	U	250	104		P
Iron	75	125	1040		9.1	U	1000	104		P
Lead	75	125	16.7		2.4	U	20.0	83		P
Manganese	75	125	544		27.1		500	103		P
Mercury	75	125	5.4		0.1	U	5.0	108		AV
Nickel	75	125	494		1.1	U	500	99		P
Selenium	75	125	4.4	U	4.4	U	10.0	0	N	P
Silver	75	125	54.6		1.3	B	50.0	107		P
Thallium	75	125	54.0		6.3	U	50.0	108		P
Vanadium	75	125	527		4.0	B	500	105		P
Zinc	75	125	500		0.7	U	500	100		P

Comments:

U.S. EPA - CLP
5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.
SKGW611011PDS

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204090903

% Solids for Sample: Level: (low / med)

Original Lab Sample ID: 200855

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			126		3.9	U	120	105		P
Arsenic			5.4	U	5.4	U	20.0	0		P
Barium			157	B	155	B	200	1		P
Beryllium			9.9		0.2	U	10.0	99		P
Cadmium			8.0		0.3	U	10.0	80		P
Chromium			37.7		15.0		20.0	113		P
Cobalt			105		8.2	B	100	97		P
Copper			62.9		12.6	B	50.0	101		P
Lead			20.1		10.3		6.0	164		P
Manganese			1160		1190		30.0	-98		P
Nickel			97.1		19.3	B	80.0	97		P
Selenium			6.3		4.4	U	10.0	63		P
Silver			19.5		0.9	U	20.0	98		P
Thallium			16.4		6.3	U	20.0	82		P
Vanadium			112		6.6	B	100	106		P
Zinc			95.9		56.9		40.0	98		P

Comments:

RESUBMITTED

U.S. EPA - CLP

5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

SKGW611011 (DISS)PDS

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204090903

% Solids for Sample: Level: (low / med)

Original Lab Sample ID: 20409090322 Lab Sample ID:: 194209

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			126		7.5	B	120	99		P
Arsenic			17.1		5.4	U	20.0	85		P
Beryllium			9.0		0.2	U	10.0	90		P
Cadmium			8.0		0.3	U	10.0	80		P
Chromium			22.8		3.8	B	20.0	95		P
Cobalt			88.1		1.3	B	100	87		P
Copper			44.4		1.2	U	50.0	89		P
Lead			2.4	U	2.4	U	6.0	0		P
Manganese			702		686		30.0	52		P
Nickel			72.0		4.0	B	80.0	85		P
Selenium			11.9		4.4	U	10.0	119		P
Silver			20.7		0.9	U	20.0	103		P
Thallium			22.1		8.2	B	20.0	70		P
Vanadium			99.8		4.4	B	100	95		P
Zinc			36.3		0.7	U	40.0	91		P

Comments:

000620

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U.S. EPA - CLP
6
DUPLICATES

EPA SAMPLE NO
SKGW61DUP1011

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204090903

Level: (low / med)

% Solids for Sample: % Solids for Duplicate:

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	7740		11800		42	*	P
Antimony	-	3.9	U	3.9	U	0		P
Arsenic	-	5.4	U	5.4	U	0		P
Barium	-	155	B	176	B	13		P
Beryllium	-	0.2	U	0.2	U	0		P
Cadmium	-	0.3	U	0.3	U	0		P
Calcium	0 - 20	278000		286000		3		P
Chromium	0 - 10	15.0		18.7		3.7082		P
Cobalt	-	8.2	B	8.2	B	0		P
Copper	0 - 25	12.6	B	71.8		59.195	*	P
Iron	0 - 20	26200		30100		14		P
Lead	0 - 3	10.3		14.6		4.3412	*	P
Magnesium	0 - 20	59700		62200		4		P
Manganese	0 - 20	1190		1260		6	*	P
Mercury	-	0.1	U	0.1	U	0		AV
Nickel	-	19.3	B	24.8	B	25		P
Potassium	0 - 5000	10900		12800		1921.6		P
Selenium	-	4.4	U	4.4	U	0		P
Silver	-	0.9	U	0.9	U	0		P
Sodium	0 - 20	32800		33500		2		P
Thallium	-	6.3	U	6.3	U	0		P
Vanadium	-	6.6	B	12.2	B	60		P
Zinc	0 - 20	56.9		110		64	*	P
Cyanide	-	0.8	B	1.7	B	72		AS

8/31/05
MSW

000621
RESUBMITTED

U.S. EPA - CLP
6
DUPLICATES

EPA SAMPLE NO
SKGW61DUP1011 (DISS)

Lab Name: GCAL

Lab Code: LA024 Case No.: Contract:

Matrix: (soil / water) Water SAS No.: SDG No.. 204090903

Level: (low / med)

% Solids for Sample: % Solids for Duplicate:

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	-	7.5	B	15.5	B	70		P
Arsenic	-	5.4	U	5.4	U	0		P
Barium	-	65.0	B	64.5	B	.8		P
Beryllium	-	0.2	U	0.2	U	0		P
Cadmium	-	0.3	U	0.3	U	0		P
Calcium	0 - 20	199000		203000		2		P
Chromium	-	3.8	B	3.5	B	8		P
Cobalt	-	1.3	B	1.5	B	14		P
Copper	-	1.2	U	1.2	U	0		P
Iron	0 - 20	4410		4570		4		P
Lead	-	2.4	U	2.4	U	0		P
Magnesium	0 - 20	40500		41800		3		P
Manganese	0 - 20	686		689		.4		P
Mercury	-	0.1	U	0.1	U	0		AV
Nickel	-	4.0	B	3.6	B	11		P
Potassium	0 - 5000	8690		8980		293.32		P
Selenium	-	4.4	U	4.4	U	0		P
Silver	-	0.9	U	0.9	U	0		P
Sodium	0 - 20	28400		29200		3		P
Thallium	-	8.2	B	6.3	U	200		P
Vanadium	-	4.4	B	4.6	B	4		P
Zinc	-	0.7	U	0.7	U	0		P

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LABORATORY CONTROL SAMPLE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Solid LCS Source: Lab Sample ID: 193141

Aqueous LCS Source: 310006 HIGH PURITY~323003 HIGH

Analyte	Aqueous (ug/L) True	Found	% R	Solid (mg/kg) True	Found	C	% R
Aluminum	2000	2040	102				
Antimony	500	501	100				
Arsenic	2000	1980	99				
Barium	2000	2010	101				
Beryllium	50.0	50.2	100				
Cadmium	50.0	49.3	99				
Calcium	10000	10100	101				
Chromium	200	201	101				
Cobalt	500	482	96				
Copper	250	254	102				
Iron	1000	999	100				
Lead	500	499	100				
Magnesium	10000	9630	96				
Manganese	500	516	103				
Nickel	500	499	100				
Potassium	10000	10400	104				
Selenium	2000	1970	98				
Silver	50.0	51.9	104				
Sodium	10000	10700	107				
Thallium	2000	2080	104				
Vanadium	500	508	102				
Zinc	500	492	98				

000623
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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.: 204090903

Solid LCS Source: Lab Sample ID: 193143

Aqueous LCS Source: 310006 HIGH PURITY~323003 HIGH

Analyte	Aqueous (ug/L)			Solid (mg/kg)			
	True	Found	% R	True	Found	C	% R
Aluminum	2000	2140	107				
Antimony	500	534	107				
Arsenic	2000	2090	105				
Barium	2000	2060	103				
Beryllium	50.0	52.2	104				
Cadmium	50.0	51.9	104				
Calcium	10000	10700	107				
Chromium	200	212	106				
Cobalt	500	511	102				
Copper	250	264	106				
Iron	1000	1060	106				
Lead	500	523	105				
Magnesium	10000	10700	107				
Manganese	500	525	105				
Nickel	500	523	105				
Potassium	10000	10300	103				
Selenium	2000	2060	103				
Silver	50.0	55.3	111				
Sodium	10000	10200	102				
Thallium	2000	2130	107				
Vanadium	500	533	107				
Zinc	500	516	103				

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SKGW611011SD

Lab Name: GCAL

Lab Code: LA024 Case No. Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204090903

Lab Sample ID 194204

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	7740		7740		0.0		P
Antimony	3.9	U	19.5	U			P
Arsenic	5.4	U	27.0	U			P
Barium	155	B	157	B	1.3		P
Beryllium	0.2	U	1.0	U			P
Cadmium	0.3	U	1.5	U			P
Calcium	278000		289000		4.0		P
Chromium	15.0		17.5	B	16.7		P
Cobalt	8.2	B	6.4	B	22.0		P
Copper	12.6	B	9.6	B	23.8		P
Iron	26200		26500		1.1		P
Lead	10.3		13.3	B	29.1		P
Magnesium	59700		57100		4.4		P
Manganese	1190		1210		1.7		P
Nickel	19.3	B	15.7	B	18.7		P
Potassium	10900		10800	B	0.9		P
Selenium	4.4	U	22.0	U			P
Silver	0.9	U	4.5	U			P
Sodium	32800		33200		1.2		P
Thallium	6.3	U	31.5	U			P
Vanadium	6.6	B	5.5	U	16.7		P
Zinc	56.9		51.2	B	10.0	E	P

8/31/05
MCW

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9

ICP SERIAL DILUTIONS

EPA SAMPLE NO.

SKGW611011 (DISS)SD

Lab Name: GCAL

Lab Code: LA024 Case No. Contract:

Matrix: (soil / water) Water SAS No.: SDG No.: 204090903

Lab Sample ID 194208

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	7.5	B	77.0	B	926.7		P
Arsenic	5.4	U	47.1	B	772.2		P
Barium	65.0	B	65.2	B	0.3		P
Beryllium	0.2	U	1.0	U			P
Cadmium	0.3	U	1.5	U			P
Calcium	199000		202000		1.5		P
Chromium	3.8	B	7.5	U	97.4		P
Cobalt	1.3	B	3.0	U	130.8		P
Copper	1.2	U	6.0	U			P
Iron	4410		4560		3.4		P
Lead	2.4	U	12.0	U			P
Magnesium	40500		41100		1.5		P
Manganese	686		695		1.3		P
Nickel	4.0	B	5.5	U	37.5		P
Potassium	8690		7350	B	15.4	E	P
Selenium	4.4	U	22.0	U			P
Silver	0.9	U	4.5	U			P
Sodium	28400		24900	B	12.3	E	P
Thallium	8.2	B	31.5	U	284.1		P
Vanadium	4.4	B	6.8	B	54.5		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.: 204090903

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.: 204090903

Instrument ID Number: ICP5 Method Type: P

Start Date: 09/29/04 End Date: 09/29/04

				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	1407		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICB	1	1413		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL	1	1420			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	1427		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1	1433		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1440		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1	1446		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MB193142	1	1454		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW611011 (DISS)	1	1501		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW61DUP1011 (DISS)	1	1507		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW611011 (DISS)SD	5	1513		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	1	1520																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	1527		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	5	1535																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	1542																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	1549																									
LCS193143	1	1556		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1603		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1	1610		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW61MS1011 (DISS)	1	1625		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW611011 (DISS)PDS	1	1631																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	1637		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	1	1644																									
SKGWEB1011 (DISS)	1	1651		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW06R1011 (DISS)	1	1658		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL	1	1716			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	1723		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

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Instrument ID Number: ICP5 Method Type: P

Start Date: 09/29/04 End Date: 09/29/04

				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	1729		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1735		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1	1744		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

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Instrument ID Number: ICP5 Method Type: P

Start Date: 10/14/04 End Date: 10/14/04

				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	1713		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICB	1	1719		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL	1	1725			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	1735		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1	1742		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1750		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1	1757		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
MB193140	1	1802		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW611011	1	1809		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW61DUP1011	1	1815		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW611011SD	5	1821		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	1	1827																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	1833																									
ZZZZZZZZZZZZZZZZZZZZZZ	5	1839																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	1845																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	1851																									
LCS193141	1	1856		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	1902		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1	1909		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW61MS1011	1	1914		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	1	1927		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW06R1011	1	1939		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW07R1011	1	1945		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW631011	1	1951		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CRDL	1	1957			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	2003		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1	2009		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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000649

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14

ANALYSIS RUN LOG

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 204090903

Instrument ID Number: ICP5 Method Type: P

Start Date: 10/14/04 End Date: 10/14/04

				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
CCV	1	2015		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1	2022		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGWEB1011	1	2028		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW63FD1011	1	2034		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW591011	1	2040		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW62A1011	1	2046		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW641011	1	2052		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	1	2058																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	2104																									
SKGW07R1011 (DISS)	1	2110		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW631011 (DISS)	1	2116		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW63FD1011 (DISS)	1	2122		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	2128		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1	2134		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW591011 (DISS)	1	2140		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW62A1011 (DISS)	1	2146		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
SKGW641011 (DISS)	1	2152		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	1	2158																									
ZZZZZZZZZZZZZZZZZZZZZZ	1	2204																									
SKGW611011PDS	1	2210		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ZZZZZZZZZZZZZZZZZZZZZZ	1	2216																									
CRDL	1	2222			X	X		X	X		X	X	X		X		X		X		X	X		X	X	X	
ICSA	1	2228		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
ICSAB	1	2234		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCV	1	2240		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X	
CCB	1	2246		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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