EPA Region 5 Records Ctr.
277866

REMEDIAL ACTION QUARTERLY MONITORING REPORT

THIRD QUARTER – 2003 (1 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
SSO	Site Safety Officer
SVE	Soil Vapor Extraction
SVOC	Semi-Volatile Organic Compound
SZ	Support Zone
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 begins 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 2003, which is the 1st 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 baseline monitoring report period. Groundwater flow direction is to the south-southeast directly toward the East Fork of Mill Creek with an average gradient of 0.13 ft/ft.

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. The groundwater level remains above the bottom of waste at piezometer P-10. P-9 could not be measured due to an obstruction or possible pinching of the casing.

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/or 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. The sample collected from groundwater monitoring well GW-61 contained a concentration of bis (2-ethyl) phthalate above the CRQL, however, it did not exceed the Trigger Level.

Two of sixteen TAL parameters were detected above the CRQL. Detections of iron (present in four groundwater monitoring wells) and barium (present in one groundwater monitoring well) were detected above the CRQL, but below the revised modified trigger levels.

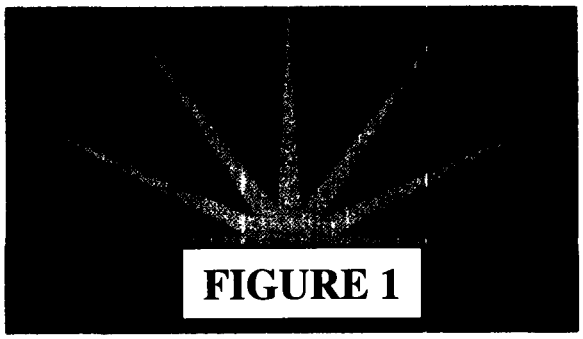
3.4 SURFACE WATER ANALYTICAL RESULTS

Surface water analyzed consisted of sampling surface runoff from the site and surface water directly from the East Fork of Mill Creek. A summary of TCL and TAL parameter concentrations encountered above the contract required detection limit and/or 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.

One of sixteen TAL parameters was detected above the CRQL. Two surface-water runoff sample locations, and one creek surface water sample location contained zinc in excess of the CRQL, however, the concentrations did not exceed the revised modified trigger levels.

FIGURES



SITE VICINITY MAP

FIGURE 1

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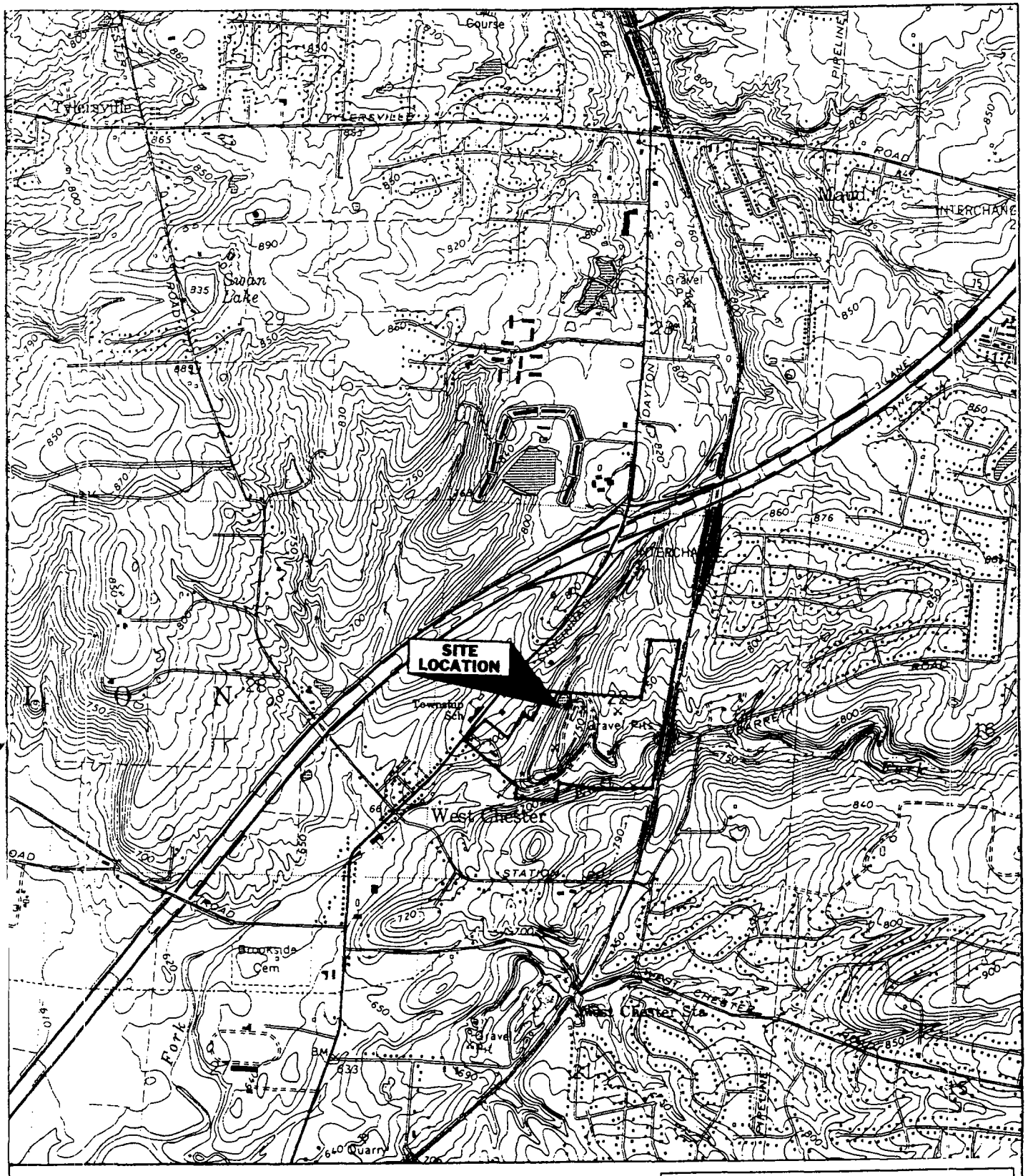

Base taken from USGS Glendale, Ohio
7.5' Topographic Quadrangle, photorevised 1987

0 2000
FEET

EARTH TECH

N

SKINNER LANDFILL

SITE VICINITY MAP

BUTLER COUNTY, OHIO

TALBES

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TALBES

TALBE 1

TABLE 1

GROUNDWATER ELEVATION

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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)	August 13, 2003 Depth to Water (feet from top of casing)	August 13, 2003 Groundwater Elevation (MSL-feet)
Piezometers	P-1	G	685.42	687.65	9.36	678.29
	P-2	G	688.54	690.42	11.89	678.53
	P-3R	G	691.83	693.69	25.12	668.57
	P-4	G	700.32	702.63	7.52	695.11
	P-5	G	708.20	710.65	14.47	696.18
	P-6	G	707.45	710.59	12.77	697.82
	P-7	G	719.08	721.83	Dry	Dry
	P-8	G	747.70	749.91	29.85	720.06
	P-9	G	760.68	763.90	—	--
	P-10	G	761.34	764.16	25.70	738.46
	P-11	G	760.34	762.76	27.02	735.74
	P-12	G	743.50	746.17	40.75	705.42
Groundwater Monitoring Wells	GW-06R	S	683.89	685.91	10.42	675.49
	GW-07R	S	683.46	683.06	8.33	674.73
	GW-24	G	693.32	695.21	16.47	678.74
	GW-26	G	696.61	698.28	29.96	668.32
	GW-30	G	675.63	677.62	10.00	667.62
	GW-58	S	684.03	686.53	12.41	674.12
	GW-59	S	684.35	687.38	7.58	679.80
	GW-60	S	689.12	692.38	13.56	678.82
	GW-61	S	687.38	690.86	13.62	677.24
	GW-62A	S	690.19	692.38	30.11	662.27
	GW-62B	S	690.57	693.13	12.44	680.69
	GW-63	S	698.87	702.50	11.13	691.37
	GW-64	S	700.45	703.88	12.63	691.25
	GW-65	S	703.83	706.88	16.28	690.60
	GW-66	G	686.82	689.41	8.02	681.39
Gas Probes	GP-6	G	772.18	774.65	16.28	758.37
	GP-7	G	749.83	752.65	9.39	743.26

Notes:
MSL - Mean Sea Level
G - Gauging
S - Sampling and Gauging
— No Gauging Data Available

TABLE 2

GROUNDWATER/WASTE ELEVATIONS

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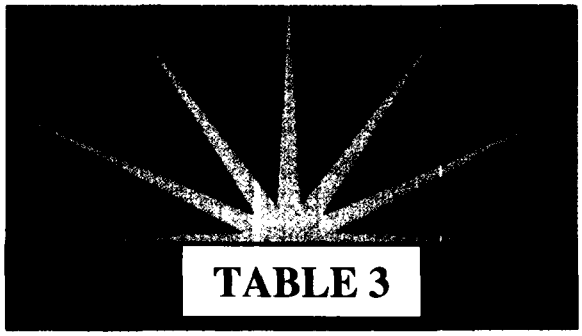
TABLE 2

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 (March 2002) (feet)	Water Elevation (June 2002) (feet)	Water Elevation (September 2002) (feet)	Water Elevation (December 2002) (feet)	Water Elevation (February 2003) (feet)	Water Elevation (May 2003) (feet)	Water Elevation (August 2003) (feet)
P-9	25	737	**745.00**	742.63	745.05	744.73	741.83	744.66	744.75	-
P-10	30	734	**744.50**	738.41	738.90	738.13	737.68	743.66	744.71	738.46
P-11	17	745	**744.30**	734.29	737.30	734.53	733.11	733.12	734.82	735.74
P-12	35	707	**713.50**	703.27	705.60	704.86	705.72	705.84	705.83	705.42

Notes:
Waste elevations determined during piezometer installation on June 28 and 29, 2001.
Shaded cells indicate water level elevations below the elevation of waste.



GROUNDWATER RESULTS SUMMARY

TABLE 3

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Table 3

Groundwater Summary

Skinner Landfill
West Chester, Ohio
Third Quarter 2003

Sample ID	VOCs	SVOCs	Dissolved Metals	Pesticides/PCBs
GW-06R	-	-	*barium*	-
GW-07R	-	-	*iron*	-
GW-58	-	-	*iron*	-
GW-59	-	-	-	-
GW-60	-	*	*	*
GW-61	*bis (2-ethlyhexyl) phthalate*	-	*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

TABLE 4

SURFACE WATER RESULTS SUMMARY

TABLE 4

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Table 4

Surface Water Summary

Skinner Landfill
West Chester, Ohio
Third Quarter 2003

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

- all parameters below report limits
italic - above Contract Required Quantitation Levels (CRQL's)
bold - above 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

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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	October-01	March-02	June-02	September-02	December-02	February-03	May-03	August-03	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]										
Antimony	3.2 U	3.0 U	6.3 B	13.3 B	6.0 B	3.0	7.0	3.7	60	60
Arsenic	3.9 U	3.6 U	8.3 B	8.1 B	3.6 U	3.6	2.9	2.9	20	10
Barium	182.0 B	216.0	244.0	266.0	254.0	256.0	224.0	309.0 J	1,000	200
Beryllium	0.1 U	0.1 U	0.5 B	0.1 U	0.1 U	0.1	0.1	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2	0.2	5	5
Chromium	0.6 J	0.7 U	0.7 U	1.1 B	3.5 B	2.1	2.6	2.6	11	10
Copper	0.6 U	2.0 B	1.0 U	1.0 U	1.0 U	1.0 UJ	1.9	1.3	25	25
Iron	11.4 J	17.7 B	79.8 B	92.2 B	4.9 U	79.2	14.1	14.1	7,000	100
Lead	1.5 U	1.3 UJ	1.3 U	1.3 U	1.3 UJ	1.3 R	1.5 UJ	1.5	4.2	3
Mercury	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1	0.1	0.2	0.2
Nickel	3.0 B	3.6 B	0.5 U	3.6 B	1.6 B	1.8	1.8	1.7	96	40
Selenium	0.9 U	4.0 R	11.0 J	8.5 J	4.0 U	4.0 R	4.4	4.4	8.5	5
Silver	1.1 J	0.5 U	4.5 B	1.9 B	5.5 B	0.5	0.4	0.4	10	10
Thallium	2.5 U	3.6 UJ	9.0 J	3.7 B	3.6 UJ	3.6	2.6 UJ	2.6	40	10
Zinc	7.8 J	46.4	8.2 J	0.8 U	10.7 B	0.8 UJ	1.5	13.5	86	20
Inorganics - Metals and Cyanide (Total)										
Antimony	—	—	—	—	28.7 B	3.0	6.9	3.7		
Arsenic	—	—	—	—	73.2	38.8	2.9	13.2		
Barium	—	—	—	—	1,120.0	852.0	336.0	493.0		
Beryllium	—	—	—	—	3.3 B	2.5	0.1	0.3		
Cadmium	—	—	—	—	2.0 B	0.2 UJ	0.2	0.2		
Chromium	—	—	—	—	82.3	64.2	12.3	21.4 J		
Copper	—	—	—	—	138.0	108.0 J	16.7	32.1		
Cyanide	—	4.0 U	4.0 U	4.0 U	4.0 UJ	4.0	3.0	3.0	10	10
Iron	—	—	—	—	123,000.0	94,100.0	13,100.0	27,200.0 J		
Lead	—	—	—	—	95.4 J	100.0 J	9.6 J	26.0 J		
Mercury	—	—	—	—	0.2	0.2 J	0.1	0.1		
Nickel	—	—	—	—	114.0	88.2	14.1	26.0		
Selenium	—	—	—	—	65.7	4.0 R	4.4	4.4 R		
Silver	—	—	—	—	10.6	0.5	0.4	0.4		
Thallium	—	—	—	—	3.6 UJ	4.9 J	2.6 UJ	2.6 UJ		
Zinc	—	—	—	—	379.0	279.0 J	61.5	87.8 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Bis (2-ethlyhexyl) phthalate	10.0 U	10.0 U	10.0 U	12.0 U	10.0 U	906.0	10.0 U	10.0 U	49	
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) — = Not Sampled or 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	**October-01**	**March-02**	**June-02**	**September-02**	**December-02**	**February-03**	**May-03**	**August-03**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]										
Antimony	3.2 U	3.0 U	7.1 B	5.6 B	12.4 B	3.3	3.7	3.7	60	60
Arsenic	37.7	3.6 U	12.6	10.6	7.7 B	3.6	2.9	2.9	20	10
Barium	360.0 J	75.3 B	89.8 B	100.0 B	123.0 B	99.9	98.8	152.0 J	1,000	200
Beryllium	0.4 J	0.1 U	0.4 B	0.1 U	0.1 U	0.1	0.1	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2	0.2	5	5
Chromium	8.0 J	0.7 U	0.7 U	0.7 U	2.9 B	2.7	2.0	2.9	11	10
Copper	13.6 B	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.2	1.2	25	25
Iron	14,200.0 J	3,480.0	3,580.0	1,760.0	1,250.0	241.0	146.0	301.0 J	7,000	100
Lead	9.9 J	1.3 UJ	1.3 U	1.3 U	1.3 UJ	1.3 R	1.5 J	1.5	4.2	3
Mercury	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1	0.1	0.2	0.2
Nickel	13.0 B	2.5 B	0.9 B	3.1 B	1.9 B	3.4	3.2	2.4	96	40
Selenium	3.7 UJ	4.0 R	11.0 J	11.3 J	4.0 U	4.0 R	4.4	4.4	8.5	5
Silver	2.5 B	0.5 U	4.4 B	0.9 B	4.7 B	0.5	0.4	0.4	10	10
Thallium	2.5 UJ	3.6 UJ	15.8 J	10.5	3.6 UJ	3.6	2.6 J	2.6	40	10
Zinc	52.1	45.0	0.8 UJ	10.1 B	11.3 B	0.8 UJ	10.2	10.9	86	20
Inorganics - Metals and Cyanide (Total)										
Antimony	—	—	—	—	14.2 B	3.0	3.7	3.7		
Arsenic	—	—	—	—	9.8 B	3.6	2.9	14.6		
Barium	—	—	—	—	454.0	260.0	132.0	699.0		
Beryllium	—	—	—	—	0.2 B	0.1	0.1	0.3		
Cadmium	—	—	—	—	0.2 U	0.2 UJ	0.2	0.2		
Chromium	—	—	—	—	19.3	9.1	3.7	21.5 J		
Copper	—	—	—	—	21.8 B	8.2 J	4.2	30.4		
Cyanide	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0	3.0	3.0	10.0	10.0
Iron	—	—	—	—	24,800.0	10,200.0	2,380.0	29,000.0 J		
Lead	—	—	—	—	9.1 J	1.3 R	1.5 UJ	16.8 J		
Mercury	—	—	—	—	0.1 U	0.1 UJ	0.1	0.1		
Nickel	—	—	—	—	21.3 B	10.4	4.7	25.3		
Selenium	—	—	—	—	4.0 U	4.0 R	4.4	4.4 R		
Silver	—	—	—	—	5.2 B	0.5	0.4	0.4		
Thallium	—	—	—	—	3.6 UJ	3.6 UJ	2.6 UJ	2.6 UJ		
Zinc	—	—	—	—	63.1	27.6 J	50.7	90.3 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	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) — = Not Sampled or 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	**October-01**	**March-02**	**June-02**	**September-02**	**December-02**	**February-03**	**May-03**	**August-03**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]										
Antimony	3.2 U	3.0 U	5.0 B	5.5 B	9.7 B	3.0	4.9	3.7	60	60
Arsenic	25.0	3.6 U	10.5	8.2 B	3.6 U	3.6	2.9	3.1	20	10
Barium	439.0	167.0 B	146.0 B	170.0 B	50.9 B	163.0	158.0	162.0 J	1,000	200
Beryllium	1.3 B	0.1 U	0.3 B	0.1 U	0.1 U	0.1	0.1	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2	0.2	5	5
Chromium	119.0	0.7 U	0.7 U	0.7 U	2.9 B	2.7	2.8	2.5	11	10
Copper	48.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.2	1.2	25	25
Iron	56,800.0	66.9 B	3,610.0	3,440.0	4.9 U	249.0	1,140.0	488.0 J	7,000	100
Lead	32.8	1.3 U	1.3 U	1.3 U	1.3 U	1.3 R	1.5 UJ	1.5	4.2	3
Mercury	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1	0.1	0.2	0.2
Nickel	94.8	2.2 B	2.7 B	2.6 B	1.7 B	2.2	2.4	1.2	96	40
Selenium	3.7 U	4.0 U	4.0 U	4.0 UJ	4.0 UJ	4.0 R	4.4	4.4	8.5	5
Silver	3.1 B	0.6 B	3.4 B	0.5 U	4.1 B	0.5	0.4	0.4	10	10
Thallium	2.5 U	3.6 U	14.3	6.3 B	3.6 U	3.6	2.6 UJ	2.6	40	10
Zinc	246.0	12.2 B	0.8 U	1.6 B	11.0 B	0.8 UJ	19.2	7.7	86	20
Inorganics - Metals and Cyanide (Total)										
Antimony	—	—	—	—	14.3 B	3.0	5.2	3.7		
Arsenic	—	—	—	—	17.5	17.1	3.2	20.6		
Barium	—	—	—	—	422.0	540.0	367.0	391.0		
Beryllium	—	—	—	—	1.0 B	1.3	0.3	0.7		
Cadmium	—	—	—	—	0.2 U	0.2 UJ	0.2	0.2		
Chromium	—	—	—	—	51.3	63.1	14.9	42.6 J		
Copper	—	—	—	—	47.7	42.5 J	27.8	43.2		
Cyanide	8.5 B	—	4.0 U	4.0 U	4.0	4.0	3.0	3.0	10	10
Iron	—	—	—	—	54,500.0	61,900.0	17,000.0	40,800.0 J		
Lead	—	—	—	—	19.8 J	38.5 UJ	23.0 J	26.8 J		
Mercury	—	—	—	—	0.1 U	0.1 UJ	0.1	0.1		
Nickel	—	—	—	—	56.2	66.5	20.1	50.6		
Selenium	—	—	—	—	4.0 U	4.0 R	4.4	4.4 R		
Silver	—	—	—	—	5.9 B	0.5	0.4	0.4		
Thallium	—	—	—	—	3.6 UJ	3.6 UJ	2.6 UJ	2.6 UJ		
Zinc	—	—	—	—	153.0	164.0 J	78.7	137.0 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
acetone								8.0		10
Semi-Volatile Organic Compounds (SVOCs)	BRL	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) — = Not Sampled or 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-59

	Sampling Event (All Results Expressed in Units of µg/l)									
	Baseline Results							Quarterly Results		
Compound	**October-01**	**March-02**	**June-02**	**September-02**	**December-02**	**February-03**	**May-03**	**August-03**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]										
Antimony	*3.2 U*	*3.0 U*	*7.1 B*	*9.9 B*	*13.1 B*	*3.0*	*8.0*	7.2	*60*	*60*
Arsenic	28.8 J	3.6 U	14.0	13.0	5.9 B	3.6	2.9	2.9	20	10
Barium	81.3 B	63.8 B	112.0 B	142.0 B	65.6 B	35.7	37.2	38.1 J	1,000	200
Beryllium	0.1 U	0.1 U	0.4 B	0.1 U	0.1 U	0.1	0.1	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2	0.2	5	5
Chromium	8.9 B	1.0 B	4.1 B	9.6 B	4.6 B	4.9	4.4	3.3	11	10
Copper	15.8 B	1.0 U	3.4 B	2.2 B	1.0 U	1.0 UJ	3.5	3.0	25	25
Iron	3,330.0	16.4 B	3,360.0	4,900.0	4.9 U	591.0	14.1	14.1	7,000	100
Lead	6.7 J	1.3 UJ	1.3 U	1.5 B	1.3 UJ	1.3 R	1.5 UJ	1.5	4.2	3
Mercury	0.1 UJ	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1	0.1	0.2	0.2
Nickel	9.1 B	5.7 B	8.1 B	12.3 B	1.8 B	3.5	3.5	3.0	96	40
Selenium	3.7 R	4.0 R	13.7 J	15.8 J	18.2	4.0 R	4.4	4.4	8.5	5
Silver	2.9 B	0.5 U	4.0 B	2.7 B	7.2 B	0.5	0.4	0.4	10	10
Thallium	*2.5 UJ*	*3.6 UJ*	*12.9 J*	*8.8 B*	*3.6 UJ*	*3.6 UJ*	*2.6 UJ*	*2.6*	40	10
Zinc	97.5	8.6 B	18.2 J	7.9 B	7.2 B	0.8 J	1.2	18.4	86	20
Inorganics - Metals and Cyanide (Total)										
Antimony	—	—	—	—	19.5 B	3.0	3.7	3.7		
Arsenic	—	—	—	—	36.5	3.6	2.9	3.6		
Barium	—	—	—	—	215.0	202.0	55.2	62.1		
Beryllium	—	—	—	—	1.9 B	0.1	0.1	0.1		
Cadmium	—	—	—	—	0.7 B	0.2 UJ	0.2	0.2		
Chromium	—	—	—	—	82.4	18.8	5.4	8.3 J		
Copper	—	—	—	—	45.0	1.0 UJ	3.6	6.0		
Cyanide	—	4.0 U	4.0 U	4.0 U	4.0	4.0	3.0	3.0	10	10
Iron	—	—	—	—	79,700.0	9,810.0	1,390.0	2,240.0 J		
Lead	—	—	—	—	36.7 J	1.3 R	1.5 UJ	5.7 J		
Mercury	—	—	—	—	0.1 B	0.1 UJ	0.1	0.1		
Nickel	—	—	—	—	77.2	16.0	4.8	6.5		
Selenium	—	—	—	—	21.6	4.0 R	4.4	4.4 R		
Silver	—	—	—	—	7.6 B	0.5	0.4	0.4		
Thallium	—	—	—	—	3.6 UJ	3.6 UJ	2.6 UJ	2.6 UJ		
Zinc	—	—	—	—	238.0	18.9 J	16.3	21.2 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
1,1-Dichloroethane							0.2 J			
Semi-Volatile Organic Compounds (SVOCs)	BRL	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) — = Not Sampled or 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	**October-01**	**March-02**	**June-02**	**September-02**	**December-02**	**February-03**	**May-03**	**August-03**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]	Well is Dry	Well is Dry	Insufficient Volume	Insufficient Volume		Insufficient Volume	Insufficient Volume	Insufficient Volume		
Antimony	—	—	—	—	11.3 B	—	6.7	—	60	60
Arsenic	—	—	—	—	3.6 U	—	2.9	—	20	10
Barium	—	—	—	—	43.3 B	—	60.9	—	1,000	200
Beryllium	—	—	—	—	0.1 U	—	0.1	—	5	5
Cadmium	—	—	—	—	0.2 U	—	0.2	—	5	5
Chromium	—	—	—	—	4.6 B	—	2.7	—	11	10
Copper	—	—	—	—	1.0 U	—	3.0	—	25	25
Iron	—	—	—	—	1.3 UJ	—	14.1	—	7,000	100
Lead	—	—	—	—	0.1 U	—	1.5 UJ	—	4.2	3
Mercury	—	—	—	—	3.4 B	—	0.1	—	0.2	0.2
Nickel	—	—	—	—	13.3	—	1.1	—	96	40
Selenium	—	—	—	—	5.8 B	—	4.4	—	8.5	5
Silver	—	—	—	—	3.6 UJ	—	0.4	—	10	10
Thallium	—	—	—	—	10.4 B	—	2.6 UJ	—	40	10
Zinc	—	—	—	—	10.4 B	—	4.5	—	86	20
Inorganics - Metals and Cyanide (Total)										
Antimony	—	—	—	—	8.4 B	—	3.7	—		
Arsenic	—	—	—	—	5.7 B	—	2.9	—		
Barium	—	—	—	—	88.5 B	—	73.1	—		
Beryllium	—	—	—	—	0.1 U	—	0.1	—		
Cadmium	—	—	—	—	0.2 U	—	0.2	—		
Chromium	—	—	—	—	7.3 B	—	10.9	—		
Copper	—	—	—	—	1.0 U	—	7.5	—		
Cyanide	—	—	—	—	4.0 U	—	3.0	—	10	10
Iron	—	—	—	—	2,780.0	—	7,830.0	—		
Lead	—	—	—	—	1.3 UJ	—	1.5 UJ	—		
Mercury	—	—	—	—	0.1 U	—	0.1	—		
Nickel	—	—	—	—	7.4 B	—	7.8	—		
Selenium	—	—	—	—	14.3	—	4.4	—		
Silver	—	—	—	—	5.0 B	—	0.4	—		
Thallium	—	—	—	—	3.6 UJ	—	2.6 UJ	—		
Zinc	—	—	—	—	28.3	—	34.2	—		
Volatile Organic Compounds (VOCs)	—	—	BRL	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	—	—	BRL	—	BRL	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) — = Not Sampled or 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	**October-01**	**March-02**	**June-02**	**September-02**	**December-02**	**February-03**	**May-03**	**August-03**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]										
Antimony	3.2 U	3.0 U	7.3 B	6.3 B	6.7 B	3.0	7.3	3.7	60	60
Arsenic	29.0	3.6 U	12.5	10.6	13.7	3.6	2.9	4.7	20	10
Barium	190.0 J	93.2 B	107.0 B	104.0 B	98.2 B	64.7	67.7	77.7 J	1,000	200
Beryllium	0.1 J	0.1 U	0.1 U	0.1 U	0.1 U	0.1	0.1	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2	0.2	5	5
Chromium	9.4 J	1.1 B	0.9 B	0.7 U	4.4 B	1.6	3.3	3.8	11	10
Copper	1.6 B	1.0 U	3.6 B	1.0 U	1.0 U	1.0 UJ	1.2	1.2	25	25
Iron	14,500 J	4,120	9,070	2,770	12,500	3,270	1,940	6,100 J	7,000	100
Lead	1.5 UJ	1.3 UJ	1.3 U	1.3 U	1.3 UJ	1.3 R	1.5 UJ	1.5	4.2	3
Mercury	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 UJ	0.1	0.1	0.2	0.2
Nickel	22.2 B	9.2 B	4.5 B	3.1 B	5.0 B	2.4	4.2	4.0	96	40
Selenium	4.0 J	4.0 R	4.0 U	5.3 J	4.0 U	4.0 R	4.4	4.4	8.5	5
Silver	3.3 B	0.5 U	2.7 B	0.7 B	3.4 B	0.5	0.4	0.4	10	10
Thallium	2.5 UJ	3.6 UJ	9.7 J	5.6 B	3.6 UJ	3.6	2.6 UJ	2.6	40	10
Zinc	34.6	18.2 B	12.9 J	4.1 B	18.5 B	0.8 UJ	7.4	13.1	86	20
Inorganics - Metals and Cyanide (Total)										
Antimony	—	—	—	—	6.7 B	3.0	4.5	3.7		
Arsenic	—	—	—	—	13.7	3.6	3.2	17.9		
Barium	—	—	—	—	98.2 B	84.4	69.5	202.0		
Beryllium	—	—	—	—	0.1 U	0.1	0.1	0.2		
Cadmium	—	—	—	—	0.2 U	0.2 UJ	0.2	0.2		
Chromium	—	—	—	—	4.4 B	5.6	2.9	23.2 J		
Copper	—	—	—	—	1.0 U	1.0 UJ	1.2	28.2		
Cyanide	4.0 B	4.0 U	4.0 U	4.0 U	4.0 U	4.0	3.0	3.0	10	10
Iron	—	—	—	—	12,500.0	8,720.0	2,330.0	33,400.0 J		
Lead	—	—	—	—	1.3 UJ	1.3 R	1.5 UJ	19.7 J		
Mercury	—	—	—	—	0.1 U	0.1 UJ	0.1	0.1		
Nickel	—	—	—	—	5.0 B	6.6	4.1	29.5		
Selenium	—	—	—	—	4.0 U	4.0 R	4.4	4.4 R		
Silver	—	—	—	—	3.4 B	0.5	0.4	0.4		
Thallium	—	—	—	—	3.6 UJ	3.8 UJ	2.6 UJ	2.6 UJ		
Zinc	—	—	—	—	18.5 B	9.9 J	18.3	96.7 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Carbon disulfide	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4		10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Bis (2-ethlyhexyl) phthalate	23.6 U	10.0 U	12.2 U	12.0 U	57.0 J	10.0 U	10.0 U	40.6	49	10
Pesticides / PCBs	BRL	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) — = Not Sampled or 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	**October-01**	**March-02**	**June-02**	**September-02**	**December-02**	**February-03**	**May-03**	**August-03**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]										
Antimony	—	3.0 U	3.7 B	7.3 B	12.7 B	3.0	9.6	3.7	60	60
Arsenic	—	3.6 U	3.6 U	4.9 B	3.6 U	3.6	2.9	2.9	20	10
Barium	—	84.2 B	145.0 B	174.0 B	157.0 B	162.0	146.0	145.0 J	1,000	200
Beryllium	—	0.1 U	0.3 B	0.1 U	0.1 U	0.1	0.1	0.1	5	5
Cadmium	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2	0.2	5	5
Chromium	—	0.7 U	0.7 U	1.5 B	4.1 B	3.5	3.5	3.5	11	10
Copper	—	1.0 U	6.3 B	1.1 B	5.2 B	1.0 UJ	4.4	2.4	25	25
Iron	—	72.7 B	36.1 B	6.2 B	4.9 U	317	14.1	14.1	7,000	100
Lead	—	*1.3 UJ*	*1.3 U*	*1.3 U*	*1.3 UJ*	*1.3 R*	*1.5 UJ*	*1.5*	4.2	3
Mercury	—	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 UJ	0.1	0.1	0.2	0.2
Nickel	—	12.4 B	1.5 B	3.2 B	2.7 B	1.8	2.1	0.7	56	40
Selenium	—	4.0 R	4.0 U	4.0 U	4.0 U	4.0 R	4.4	4.4	8.5	5
Silver	—	0.5 U	1.9 B	0.5 U	6.0 B	0.5	0.5	0.4	10	10
Thallium	—	3.6 UJ	5.1 J	7.9 B	3.6 UJ	3.6	2.6 UJ	2.6	40	10
Zinc	—	16.7 B	4.3 J	0.8 U	11.4 B	0.8 UJ	7.4	11.0	86	20
Inorganics - Metals and Cyanide (Total)										
Antimony	—	—	—	—	18.4 B	3.0	4.7	3.7		
Arsenic	—	—	—	—	17.0	20.7	8.7	18.3		
Barium	—	—	—	—	471	1,170	615	800		
Beryllium	—	—	—	—	0.5 B	1.7	0.8	1.1		
Cadmium	—	—	—	—	0.2 U	0.2 UJ	0.2	0.2		
Chromium	—	—	—	—	38.6	85.5	49.3	68.6 J		
Copper	—	—	—	—	42.3	76.1 UJ	45.2	68.0		
Cyanide	—	4.0 U	4.0 U	4.0 U	4.0 U	4.0	—	3.0	10.0	10.0
Iron	—	—	—	—	*34,000*	*85,100*	*51,500*	*65,400 J*		
Lead	—	—	—	—	33.3 J	68.0 UJ	33.6 J	65.2 J		
Mercury	—	—	—	—	0.1 U	0.1 UJ	0.1	0.1		
Nickel	—	—	—	—	38.1 B	86.4	53.4	75.7		
Selenium	—	—	—	—	13.7	4.0 R	4.4	4.4 R		
Silver	—	—	—	—	5.4 B	0.5	0.4	0.4		
Thallium	—	—	—	—	3.6 UJ	3.6 UJ	2.6 UJ	2.6 UJ		
Zinc	—	—	—	—	119	242 J	179	234 J		
Volatile Organic Compounds (VOCs)	BRL	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) — = Not Sampled or 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	October-01	March-02	June-02	September-02	December-02	February-03	May-03	August-03	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]	Well is Dry	Well is Dry	Well is Dry	Well is Dry	Well is Dry	Well is Dry	Insufficient Volume	Well is Dry		
Inorganics - Metals and Cyanide (Total)	—	—	—	—	—	—	—	—		
Volatile Organic Compounds (VOCs)	—	—	—	—	—	—	BRL	—		
Benzene	—	—	—	—	—	—	3.0	—	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) — = Not Sampled or 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-63

	Sampling Event (All Results Expressed in Units of µg/l)									
	Baseline Results							Quarterly Results		
Compound	**October-01**	**March-02**	**June-02**	**September-02**	**December-02**	**February-03**	**May-03**	**August-03**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]										
Antimony	8.5 B	3.0 U	9.2 B	11.4 B	13.8 B	3.0	8.9	7.1	60	60
Arsenic	15.3	3.6 U	18.3	15.9	9.5 B	3.6	2.9	2.9	20	10
Barium	137.0 B	152.0 B	76.7 B	97.5 B	76.2 B	72.2	50.1	58.8 J	1,000	200
Beryllium	0.1 U	0.1 U	0.2 B	0.1 U	0.1 U	0.1	0.1	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2	0.2	5	5
Chromium	0.5 U	0.9 B	0.7 U	1.2 B	3.0 B	3.6	3.4	3.2	11	10
Copper	0.6 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.2	1.2	25	25
Iron	4.5 U	4.9 U	729	592	758	622	297	1,890 J	7,000	100
Lead	*1.5 UJ*	*1.3 UJ*	*1.3 U*	*1.3 U*	*1.3 UJ*	*1.3 R*	*1.5 UJ*	*1.5*	4.2	3
Mercury	0.1 UJ	0.1 U	0.1 U	0.1 UJ	0.1 U	0.1 UJ	0.1	0.1	0.2	0.2
Nickel	21.6 B	2.6 B	9.8 B	12.8 B	7.4 B	6.6	5.9	8.3	96	40
Selenium	3.7 R	4.0 R	18.7	15.3	8.7	4.0 R	4.4	4.4	8.5	5
Silver	4.3 B	0.5 U	4.9 B	2.0 B	3.6 B	0.5	0.4	0.4	10	10
Thallium	2.5 UJ	3.6 UJ	22.9 J	15.9	3.6 UJ	3.6	2.6 UJ	2.6	40	10
Zinc	51.5	13.8 B	0.8 UJ	0.8 U	7.8 B	0.8 UJ	12.9	10.8	86	20
Inorganics - Metals and Cyanide (Total)										
Antimony	—	—	—	—	20.2 B	3.0	4.6	3.7		
Arsenic	—	—	—	—	22.8	30.4	12.6	12.6		
Barium	—	—	—	—	234	390	178	217		
Beryllium	—	—	—	—	1.0 B	2.3	0.9	0.9		
Cadmium	—	—	—	—	*0.2 U*	*0.2 UJ*	0.2	0.2		
Chromium	—	—	—	—	39.2	70.8	30.8	36.1 J		
Copper	—	—	—	—	35.7	77.8 J	29.3	33.0		
Cyanide	—	4.0 U	4.0 U	4.0 U	4.0 U	4.0	3.0	3.0	10	10
Iron	—	—	—	—	55,500	109,000	44,100	53,900 J		
Lead	—	—	—	—	21.2 J	70.2 UJ	28.5 J	36.0 J		
Mercury	—	—	—	—	0.1 U	0.1 UJ	0.1	0.1		
Nickel	—	—	—	—	56.6	104	47.5	59.6		
Selenium	—	—	—	—	27.8	4.0 R	4.4	4.4 R		
Silver	—	—	—	—	7.3 B	0.5	0.4	0.4		
Thallium	—	—	—	—	3.6 U	3.6 UJ	2.6 UJ	2.6 UJ		
Zinc	—	—	—	—	160	267 J	129	182 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Acetone	5.0 U	5.0 U	5.0 U	5.0 U	5.0 R	5.0 U	78.0 J	5.0 U		10
Carbon disulfide	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3		10
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Pesticides / PCBs	BRL	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) — = Not Sampled or 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	October-01	March-02	June-02	September-02	December-02	February-03	May-03	August-03	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]										
Antimony	4.8 B	3.0 U	6.6 B	5.9 B	12.3 B	3.0	5.3	4.2	60	60
Arsenic	32.3	3.6 U	12.7	9.2 B	7.3 B	3.6	2.9	2.9	20	10
Barium	75.2 J	40.8 B	34.5 B	34.6 B	53.5 B	31.0	28.9	31.5 J	1,000	200
Beryllium	0.1 U	0.1 U	0.4 B	0.1 U	0.1 U	0.1	0.1	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2	0.2	5	5
Chromium	8.6 J	1.2 B	0.7 U	1.2 B	20.4	4.9	6.5	3.8	11	10
Copper	6.2 B	3.8 B	3.0 B	1.8 B	10.4 B	1.0 UJ	4.9	4.5	25	25
Iron	8,220 J	4.9 U	1,010	4.9 U	19,500.0	63.2 R	52.6	14.1	7,000	100
Lead	3.5 J	1.3 UJ	1.3 U	1.3 U	3.7 J	1.3 UJ	1.5 UJ	1.5	4.2	3
Mercury	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1	0.1	0.1	0.2	0.2
Nickel	34.5 B	18.0 B	14.0 B	10.9 B	33.6 B	12.8 R	13.4	9.4	96	40
Selenium	3.7 UJ	4.0 R	15.1 J	6.6 J	4.6 B	4.0	4.4	4.4	8.5	5
Silver	4.7 B	1.5 B	4.6 B	0.8 B	5.7 B	0.5	0.4	0.4	10	10
Thallium	2.5 UJ	3.6 UJ	11.1 J	3.9 B	3.6 UJ	3.6	2.6 UJ	2.6	40	10
Zinc	19.6 B	21.4	23.9 J	0.8 U	64.5	0.8 UJ	9.1	16.1	86	20
Inorganics - Metals and Cyanide (Total)										
Antimony	—	—	—	—	12.3 B	3.0	5.6	3.7		
Arsenic	—	—	—	—	7.3 B	4.3	2.9	6.2		
Barium	—	—	—	—	53.5 B	59.5	47.9	58.3		
Beryllium	—	—	—	—	0.1 U	0.5	0.1	0.2		
Cadmium	—	—	—	—	0.2 U	0.2 UJ	0.2	0.2		
Chromium	—	—	—	—	20.4	22.9	14.8	22.4 J		
Copper	—	—	—	—	10.4 B	2.2 J	9.6	16.0		
Cyanide	5.0 B	4.0 U	4.0 U	4.0 U	4.0 U	4.0	3.0	3.0	10	10
Iron	—	—	—	—	19,500	25,900	14,700	24,300 J		
Lead	—	—	—	—	3.7 J	8.1 UJ	1.7 J	9.7 J		
Mercury	—	—	—	—	0.1 U	0.1 UJ	0.1	0.1		
Nickel	—	—	—	—	33.6 B	38.3	26.1	33.9		
Selenium	—	—	—	—	4.6 B	4.0 R	4.4	4.4 R		
Silver	—	—	—	—	5.7 B	0.5	0.4	0.4		
Thallium	—	—	—	—	3.6 UJ	3.6 UJ	2.6 UJ	2.6 UJ		
Zinc	—	—	—	—	64.5	51.3 J	69.1	73.6 J		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Bis (2-ethlyhexyl) phthalate	10.0 U	474 B	10.0 U	12.0 U	10.0 U	10.0 U	10.0 U	10.0	49	
Pesticides / PCBs	BRL	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) — = Not Sampled or Not Analyzed
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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	**October-01**	**March-02**	**June-02**	**September-02**	**December-02**	**February-03**	**May-03**	**August-03**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]		Insufficient Volume	Insufficient Volume	Insufficient Volume	Insufficient Volume	Insufficient Volume	Insufficient Volume	Insufficient Volume		
Antimony	5.7 B	—	—	—	—	—	—	—	60	60
Arsenic	24.0	—	—	—	—	—	—	—	20	10
Barium	163.0 J	—	—	—	—	—	—	—	1,000	200
Beryllium	0.5 J	—	—	—	—	—	—	—	5	5
Cadmium	*0.2 U*	—	—	—	—	—	—	—	5	5
Chromium	40.0 J	—	—	—	—	—	—	—	11	10
Copper	22.8 B	—	—	—	—	—	—	—	25	25
Iron	29,700 J	—	—	—	—	—	—	—	7,000	100
Lead	15.5 J	—	—	—	—	—	—	—	4.2	3
Mercury	0.1 U	—	—	—	—	—	—	—	0.2	0.2
Nickel	33.3 B	—	—	—	—	—	—	—	96	40
Selenium	3.7 UJ	—	—	—	—	—	—	—	8.5	5
Silver	2.0 B	—	—	—	—	—	—	—	10	10
Thallium	2.5 UJ	—	—	—	—	—	—	—	40	10
Zinc	78.6	—	—	—	—	—	—	—	86	20
Inorganics - Metals and Cyanide (Total)										
Antimony	—	—	—	—	—	—	—	—		
Arsenic	—	—	—	—	—	—	—	—		
Barium	—	—	—	—	—	—	—	—		
Beryllium	—	—	—	—	—	—	—	—		
Cadmium	—	—	—	—	—	—	—	—		
Chromium	—	—	—	—	—	—	—	—		
Copper	—	—	—	—	—	—	—	—		
Cyanide	*4.0 U*	—	—	—	—	—	—	—	*10*	*10*
Iron	—	—	—	—	—	—	—	—		
Lead	—	—	—	—	—	—	—	—		
Mercury	—	—	—	—	—	—	—	—		
Nickel	—	—	—	—	—	—	—	—		
Selenium	—	—	—	—	—	—	—	—		
Silver	—	—	—	—	—	—	—	—		
Thallium	—	—	—	—	—	—	—	—		
Zinc	—	—	—	—	—	—	—	—		
Volatile Organic Compounds (VOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	BRL	BRL	BRL	BRL	BRL	BRL	BRL	—		
4-Nitrophenol	34.2	—	*62.5 U*	*50.0 U*	*29.8 UJ*	*10.0 U*	*10.0 U*	—	*150*	
Bis (2-ethlyhexyl) phthalate	18.0	—	25.0 U	20.0 U	11.9 U	10.0 U	10.0 U	—	49	
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) — = Not Sampled or 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 Creek Surface Water Sample Location SW-50

	Sampling Event (All Results Expressed in Units of µg/l)								
	Baseline Results						Quarterly Results		
Compound	March-02	June-02	September-02	December-02	February-03	May-03	August-03	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Antimony	3.0 U	4.9 B	3.9 B	9.7 B	3.0 U	9.7 B	3.7	60	60
Arsenic	3.6 U	8.3 B	3.6 U	3.6 U	3.6 U	3.6 U	7.1	20	10
Barium	39.9 B	48.3 B	69.3 B	50.9 B	57.7 B	50.9 B	55.2	1,000	200
Beryllium	0.1 U	0.5 B	0.1 U	0.1 U	0.1 U	0.1 U	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2	5	5
Chromium	0.7 U	0.7 U	0.7 U	2.9 B	2.1 B	2.9 B	1.8	11	10
Copper	*1.7 J*	*1.0 U*	*1.0 U*	*1.0 U*	*1.0 UJ*	*1.0 U*	*3.1*	25	25
Iron	12.0 B	83.4 B	56.0 B	4.9 U	129.0	4.9 U	14.1	7,000	100
Lead	1.3 UJ	1.3 U	1.3 U	1.3 U	1.3 R	1.3 U	1.5	4.2	3
Mercury	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1	0.2	0.2
Nickel	0.6 J	0.9 B	0.8 B	1.7 B	0.8 B	1.7 B	0.7	96	40
Selenium	4.0 R	4.0 U	4.0 UJ	4.0 UJ	4.0 R	4.0 UJ	4.4	8.5	5
Silver	0.6 B	4.2 B	0.7 B	4.1 B	0.5 U	4.1 B	0.4	10	10
Thallium	*3.6 UJ*	*9.1 J*	*4.0 B*	*3.6 U*	*4.3 J*	*3.6 U*	*6.8 J*	40	10
Zinc	11.8 B	36.2 J	1.3 B	11.0 B	0.8 UJ	11.0 B	13.8	86	20
Inorganics - Metals and Cyanide (Total)									
Antimony	—	—	—	9.3 B	3.0 U	9.3 B	3.7		
Arsenic	—	—	—	3.6 U	3.6 U	3.6 U	2.9		
Barium	—	—	—	50.7 B	58.1 B	50.7 B	55.4		
Beryllium	—	—	—	0.1 U	0.1 U	0.1 U	0.1		
Cadmium	—	—	—	0.2 U	0.2 UJ	0.2 U	0.2		
Chromium	—	—	—	3.2 B	2.3 B	3.2 B	1.7		
Copper	—	—	—	4.4 B	5.7 J	4.4 B	2.5		
Cyanide	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	3.0	10	10
Iron	—	—	—	4.9 U	141.0	4.9 U	23.5		
Lead	—	—	—	1.3 U	1.3 R	1.3 U	1.5		
Mercury	—	—	—	0.1 U	0.1 U	0.1 U	0.1		
Nickel	—	—	—	1.3 B	0.5 U	1.3 B	1.5		
Selenium	—	—	—	4.0 U	4.0 R	4.0 U	4.4 UJ		
Silver	—	—	—	4.3 B	0.5 U	4.3 B	0.4		
Thallium	—	—	—	3.6 UJ	3.6 UJ	3.6 UJ	5.5 J		
Zinc	—	—	—	13.1 B	2.0 J	13.1 B	10.9		
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) — = Not Sampled or 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	**March-02**	**June-02**	**September-02**	**December-02**	**February-03**	**May-03**	**August-03**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]									
Antimony	3.0 U	5.6 B	5.3 B	8.7 B	3.0 U	8.7 B	3.7	60	60
Arsenic	3.6 U	7.1 B	5.8 U	3.6 U	3.6 U	3.6 U	5.3	20	10
Barium	41.7 B	49.1 B	60.2 B	54.8 B	59.4 B	54.8 B	49.9	1,000	200
Beryllium	0.1 U	0.3 B	0.1 U	0.1 U	0.1 U	0.1 U	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2	5	5
Chromium	1.0 B	0.7 U	0.7 U	2.7 B	2.5 B	2.7 B	0.8	11	10
Copper	1.5 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	2.2	25	25
Iron	19.6 B	86.6 B	6.4 B	4.9 U	11.9 B	4.9 U	14.1	7,000	100
Lead	1.3 UJ	1.3 U	1.3 U	1.3 U	1.3 R	1.3 U	1.5	4.2	3
Mercury	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.1 U*	*0.1*	0.2	0.2
Nickel	1.5 J	0.5 U	0.7 B	1.7 B	0.5 U	1.7 B	0.7	96	40
Selenium	4.0 R	4.0 U	4.0 UJ	4.0 UJ	4.0 R	4.0 UJ	4.4	8.5	5
Silver	0.5 U	4.1 B	0.5 U	3.3 B	0.5 U	3.3 B	0.4	10	10
Thallium	3.6 UJ	10.8 J	3.6 U	3.6 U	3.6 UJ	3.6 U	10.6	40	10
Zinc	26.3	0.8 UJ	0.8 U	26.8	0.8 UJ	26.8	13.9	86	20
Inorganics - Metals and Cyanide (Total)									
Antimony	—	—	—	7.8 B	3.0 U	7.8 B	3.7		
Arsenic	—	—	—	3.6 U	3.6 U	3.6 U	2.9		
Barium	—	—	—	51.8 B	59.3 B	51.8 B	50.9		
Beryllium	—	—	—	0.1 U	0.1 U	0.1 U	0.1		
Cadmium	—	—	—	0.2 U	0.2 UJ	0.2 U	0.2		
Chromium	—	—	—	2.7 B	2.8 B	2.7 B	1.7		
Copper	—	—	—	1.0 U	1.0 UJ	1.0 U	1.9		
Cyanide	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	3.0	10	10
Iron	—	—	—	10.0 B	74.8 B	10.0 B	49.5		
Lead	—	—	—	1.3 U	1.3 R	1.3 U	1.5		
Mercury	—	—	—	0.1 U	0.1 U	0.1 U	0.1		
Nickel	—	—	—	1.1 B	0.5 U	1.1 B	0.7		
Selenium	—	—	—	4.0 U	4.0 R	4.0 U	4.4 UJ		
Silver	—	—	—	3.0 B	0.5 U	3.0 B	0.4		
Thallium	—	—	—	3.6 UJ	3.6 U	3.6 UJ	5.9 J		
Zinc	—	—	—	12.7 B	7.8 J	12.7 B	9.7		
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) — = Not Sampled or 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	March-02	June-02	September-02	December-02	February-03	May-03	August-03	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]									
Antimony	3.0 U	3.7 B	4.6 B	6.5 B	3.0 U	6.5 B	3.7	60	60
Arsenic	3.6 U	7.3 B	5.0 B	3.6 U	3.6 U	3.6 U	4.9	20	10
Barium	41.0 B	46.1 B	64.3 B	52.8 B	57.7 B	52.8 B	54.2	1,000	200
Beryllium	0.1 U	0.5 B	0.1 U	0.1 U	0.1 U	0.1 U	0.1	5	5
Cadmium	0.2 U	0.2 U	0.2 U	0.2 U	0.2 UJ	0.2 U	0.2	5	5
Chromium	0.7 U	0.7 U	0.8 B	2.8 B	3.5 B	2.8 B	2.1	11	10
Copper	1.4 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	2.3	25	25
Iron	18.8 B	81.7 B	4.9 U	4.9 U	575	4.9 U	14.1	7,000	100
Lead	1.3 UJ	1.3 U	1.3 U	1.3 U	1.3 R	1.3 U	1.5	4.2	3
Mercury	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1	0.2	0.2
Nickel	1.5 J	0.5 U	0.5 U	1.2 B	1.5 B	1.2 B	1.1	96	40
Selenium	4.0 R	4.0 U	4.0 UJ	4.0 UJ	4.0 R	4.0 UJ	4.4	8.5	5
Silver	1.1 B	3.6 B	0.5 U	3.5 B	0.5 U	3.5 B	0.4	10	10
Thallium	3.6 UJ	10.1 J	3.6 U	3.6 U	3.6 UJ	3.6 U	6.2 J	40	10
Zinc	16.3 B	2.6 J	0.8 U	15.8 B	0.8 UJ	15.8 B	26.5	86	20
Inorganics - Metals and Cyanide (Total)									
Antimony	—	—	—	5.9 B	3.0 U	5.9 B	3.7		
Arsenic	—	—	—	3.6 U	3.6 U	3.6 U	2.9		
Barium	—	—	—	53.2 B	58.4 B	53.2 B	54.4		
Beryllium	—	—	—	0.1 U	0.1 U	0.1 U	0.1		
Cadmium	—	—	—	0.2 U	0.2 UJ	0.2 U	0.2		
Chromium	—	—	—	3.7 B	2.4 B	3.7 B	1.5		
Copper	—	—	—	1.0 U	1.0 UJ	1.0 U	1.7		
Cyanide	4.0 U	4.0 U	4.0 U	4.0 U	4.0 B	4.0 U	3.0	10	10
Iron	—	—	—	28.2 B	76.7 R	28.2 B	45.9		
Lead	—	—	—	1.3 U	1.3 R	1.3 U	1.5		
Mercury	—	—	—	0.1 U	0.1 U	0.1 U	0.1		
Nickel	—	—	—	1.9 B	0.5 U	1.9 B	0.7		
Selenium	—	—	—	4.0 U	4.0 R	4.0 U	4.4 UJ		
Silver	—	—	—	3.3 B	0.5 U	3.3 B	0.4		
Thallium	—	—	—	3.6 UJ	3.6 U	3.6 UJ	6.0 J		
Zinc	—	—	—	12.6 B	6.0 J	12.6 B	8.7		
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) — = Not Sampled or 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	**April-01**	**May-01**	**June-01**	**July-01**	**August-01**	**September-01**	**October-01**	**March-02**	**June-02**	**September-02**	**December-02**	**February-03**	**May-03**	**August-03**	**TRIGGER LEVEL**	**CRQL**
Inorganics - Metals (Dissolved)[13]	Location is Dry		Location is Dry	Location is Dry	Location is Dry	Location is Dry	Location is Dry	Location is Dry	Location is Dry			Location is Dry				
Antimony	—	3.2 U	—	—	—	—	—	—	—	6.9 B	3.3 B	—	5.7 B	3.7	60	60
Arsenic	—	17.7 J	—	—	—	—	—	—	—	3.6 U	4.3 B	—	2.9 U	2.9	20	10
Barium	—	46.5 U	—	—	—	—	—	—	—	29.1 B	33.0 B	—	22.0 B	20.8	1,000	200
Beryllium	—	0.1 U	—	—	—	—	—	—	—	0.1 U	0.1 U	—	0.1 U	0.1	5	5
Cadmium	—	0.2 B	—	—	—	—	—	—	—	0.2 U	0.2 U	—	0.2 U	0.2	5	5
Chromium	—	0.8 B	—	—	—	—	—	—	—	0.7 U	2.1 B	—	2.0 B	0.8	11	10
Copper	—	5.5 J	—	—	—	—	—	—	—	2.5 B	2.4 B	—	9.0 B	5.1	25	25
Iron	—	512.0	—	—	—	—	—	—	—	1.3 U	4.9 U	—	14.1 U	14.1	7,000	100
Lead	—	1.5 UJ	—	—	—	—	—	—	—	0.1 U	1.3 U	—	1.5 UJ	1.5	4.2	3
Mercury	—	0.1 U	—	—	—	—	—	—	—	0.1 U	0.1 U	—	0.1 U	0.1	0.2	0.2
Nickel	—	0.8 B	—	—	—	—	—	—	—	2.6 B	1.7 B	—	1.3 B	1.5	96	40
Selenium	—	39.4	—	—	—	—	—	—	—	4.0 R	4.0 U	—	4.4 U	4.4	8.5	5
Silver	—	1.1 J	—	—	—	—	—	—	—	0.5 U	2.6 B	—	0.4 U	0.4	10	10
Thallium	—	2.5 U	—	—	—	—	—	—	—	3.6 U	3.6 U	—	2.6 UJ	2.6	40	10
Zinc	—	35.1	—	—	—	—	—	—	—	86.6 J	93.7	—	76.2	48.0 J	86	20
Inorganics - Metals and Cyanide (Total)																
Antimony	—	—	—	—	—	—	—	—	—	—	6.7 B	—	5.8 B	3.7		
Arsenic	—	—	—	—	—	—	—	—	—	—	7.2 B	—	2.9 U	2.9		
Barium	—	—	—	—	—	—	—	—	—	—	36.1 B	—	26.4 B	21.7		
Beryllium	—	—	—	—	—	—	—	—	—	—	0.1 U	—	0.1 U	0.1		
Cadmium	—	—	—	—	—	—	—	—	—	—	0.2 U	—	0.1 U	0.2		
Chromium	—	—	—	—	—	—	—	—	—	—	1.9 B	—	0.2 B	0.8		
Copper	—	—	—	—	—	—	—	—	—	—	6.3 B	—	3.6 B	24.0		
Cyanide	—	4.0 U	—	—	—	—	—	—	—	4.0 B	4.0 U	—	3.0 U	3.0	10	10
Iron	—	—	—	—	—	—	—	—	—	—	768.0	—	461.0	72.2		
Lead	—	—	—	—	—	—	—	—	—	—	1.3 U	—	1.5 UJ	1.5		
Mercury	—	—	—	—	—	—	—	—	—	—	0.1 U	—	0.1 U	0.1		
Nickel	—	—	—	—	—	—	—	—	—	—	3.7 B	—	1.3 B	1.4		
Selenium	—	—	—	—	—	—	—	—	—	—	4.0 U	—	4.4 U	4.4 UJ		
Silver	—	—	—	—	—	—	—	—	—	—	2.0 B	—	0.4 U	0.4		
Thallium	—	—	—	—	—	—	—	—	—	—	3.6 UJ	—	2.6 U	2.6 UJ		
Zinc	—	—	—	—	—	—	—	—	—	—	102.0	—	167.0	91.1 J		
Volatile Organic Compounds (VOCs)	—	BRL	—	—	—	BRL	—	—	—	BRL	BRL	—	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	—	BRL	—	—	—	BRL	—	—	—	BRL	BRL	—	BRL	BRL		
Pesticides / PCBs	—	—	—	—	—	—	—	—	—	BRL	BRL	—	BRL	BRL		

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) — = Not Sampled or 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-2

	Sampling Event (All Results Expressed in Units of µg/l)															
	Baseline Results													Quarterly Results		
Compound	April-01	May-01	June-01	July-01	August-01	September-01	October-01	March-02	June-02	September-02	December-02	February-03	May-03	August-03	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]	Location is Dry						Location is Dry	Location is Dry	Location is Dry	Location is Dry	Location is Dry					
Antimony	—	3.2 U	3.2 U	3.2 U	8.5 B	90.1 J	—	—	—	—	—	3.9 B	4.6 B	3.7	60	60
Arsenic	—	8.6 J	15.5	27.3	8.5 B	14.7 J	—	—	—	—	—	3.6 U	2.9 U	2.9	20	10
Barium	—	53.5 B	63.0 B	170.0 B	61.0 B	1,050.0 J	—	—	—	—	—	15.9 B	20.4 B	29.1	1,000	200
Beryllium	—	0.1 U	0.1 U	0.4 B	0.1 U	13.6	—	—	—	—	—	0.1 B	0.1 U	0.1	5	5
Cadmium	—	0.2 U	0.2 U	0.2 U	0.2 U	6.0	—	—	—	—	—	0.2 U	0.2 U	0.2	5	5
Chromium	—	0.5 U	1.1 B	5.8 B	0.5 U	290.0	—	—	—	—	—	0.7 U	2.4 B	0.8	11	10
Copper	—	2.4 J	6.1 B	68.1	3.1 B	346.0	—	—	—	—	—	2.3 B	5.0 B	1.2	25	25
Iron	—	101.0	2,140.0	8,380.0	344.0	436,000.0	—	—	—	—	—	4.9 U	14.1 U	14.1	7,000	100
Lead	—	1.5 UJ	4.7	170.0	1.5 U	277.0	—	—	—	—	—	1.3 U	1.5 UJ	1.5	4.2	3
Mercury	—	0.1 U	0.1 B	0.1 U	0.1 U	0.1 UJ	—	—	—	—	—	0.1 U	0.1 U	0.1	0.2	0.2
Nickel	—	0.6 B	1.6 B	25.2 B	10.2 B	443.0 J	—	—	—	—	—	1.8 B	2.8 B	2.3	96	40
Selenium	—	4.5 B	13.0	20.1	3.7 U	3.7 R	—	—	—	—	—	4.0 U	4.4 U	4.4	8.5	5
Silver	—	1.0 J	0.4 U	0.4 U	0.4 U	2.9 B	—	—	—	—	—	0.5 U	0.4 U	0.4	10	10
Thallium	—	2.5 U	2.5 U	2.5 U	2.5 U	9.3 UJ	—	—	—	—	—	7.1 B	2.6 U	2.6	40	10
Zinc	—	21.7	283.0 J	307.0	0.9 U	1,310.0	—	—	—	—	—	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	4.0 U	4.0 U	14.5	5.5 J	—	—	—	—	—	4.0 U	—	3.0	10	10
Iron	—	—	—	—	—	—	—	—	—	—	—	20.6 B	131.0	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	BRL	—	—	—	—	—	—	—	—	BRL		
bis(2-Chloroethly) ether	—	—	—	13.2	10.0 U	—	—	—	—	—	—	—	—		13.6	10.0
Semi-Volatile Organic Compounds (SVOCs)	—	BRL	BRL	BRL	BRL	—	—	—	—	—	—	BRL	BRL	BRL		
Pesticides / PCBs	—	—	—	—	—	—	—	—	—	—	—	BRL	BRL	BRL		

Notes:
Laboratory Analytical data for July, August, and September of 2001 for SWD-2 is labeled as sample location "SWD-4" which was an alternate sample location in very close proximity to SWD-2 used when sample was not available at location of past SWD-2 sample collection.

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) — = Not Sampled or 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-3

	Sampling Event (All Results Expressed in Units of µg/l)															
	Baseline Results													Quarterly Results		
Compound	*April-01*	*May-01*	*June-01*	*July-01*	*August-01*	*September-01*	*October-01*	*March-02*	*June-02*	*September-02*	*December-02*	*February-03*	*May-03*	*August-03*	TRIGGER LEVEL	CRQL
Inorganics - Metals (Dissolved)[13]	Location is Dry	Location is Dry	Location is Dry			Location is Dry	Location is Dry		Location is Dry							
Antimony	—	—	—	3.2 U	5.6 B	—	—	3.0 U	—	5.0 B	6.5 B	3.5 B	3.7 U	3.7	60	60
Arsenic	—	—	—	22.5	11.6	—	—	3.6 U	—	4.2 B	3.6 U	3.6 U	2.9 U	2.9	20	10
Barium	—	—	—	112.0 B	154.0 B	—	—	38.6 B	—	23.4 B	13.3 B	34.1 B	26.6 B	19.1	1,000	200
Beryllium	—	—	—	0.3 B	0.1 U	—	—	0.1 U	—	0.2 B	0.1 U	0.3 B	0.1 U	0.1	5	5
Cadmium	—	—	—	0.2 U	0.2 U	—	—	0.2 U	—	0.2 U	0.2 U	0.2 U	0.2 U	0.2	5	5
Chromium	—	—	—	2.8 B	0.5 U	—	—	0.7 U	—	0.7 U	2.7 B	0.7 U	2.3 B	0.8	11	10
Copper	—	—	—	6.2 B	4.1 B	—	—	2.6 J	—	2.0 B	1.0 U	1.0 U	2.3 B	1.2	25	25
Iron	—	—	—	5,530.0	927.0	—	—	36.9 B	—	14.3 B	4.9 U	59.5 B	14.7 B	14.1	7,000	100
Lead	—	—	—	7.8	1.5 U	—	—	1.3 UJ	—	1.3 U	1.3 U	1.3 U	1.5 UJ	1.5	4.2	3
Mercury	—	—	—	0.1 U	0.1 U	—	—	0.1 U	—	0.1 U	0.1 U	0.1 U	0.1 U	0.1	0.2	0.2
Nickel	—	—	—	11.6 B	22.7 B	—	—	1.2 J	—	3.7 B	2.6 B	0.5 U	1.1 B	1.1	96	40
Selenium	—	—	—	16.2	3.7 U	—	—	4.0 R	—	4.0 U	4.0 U	4.0 R	4.4 U	4.4	8.5	5
Silver	—	—	—	0.4 U	0.4 U	—	—	0.8 B	—	0.5 U	2.4 B	0.6 B	0.4 U	0.4	10	10
Thallium	—	—	—	2.5 U	2.5 U	—	—	3.6 UJ	—	3.6 U	3.6 U	6.5 J	2.6 UJ	2.6	40	10
Zinc	—	—	—	35.6	3.7	—	—	21.2	—	6.7 B	14.9 B	3.2 B	2.2 B	19.0 J	86	20
Inorganics - Metals and Cyanide (Total)																
Antimony	—	—	—	—	—	—	—	—	—	—	6.5 B	4.0 B	4.1 B	3.7		
Arsenic	—	—	—	—	—	—	—	—	—	—	3.6 U	3.6 U	2.9 U	2.9		
Barium	—	—	—	—	—	—	—	—	—	—	24.3 B	41.8 B	37.7 B	29.0		
Beryllium	—	—	—	—	—	—	—	—	—	—	0.1 U	0.1 U	0.1 U	0.1		
Cadmium	—	—	—	—	—	—	—	—	—	—	0.2 U	0.2 U	0.2 U	0.2		
Chromium	—	—	—	—	—	—	—	—	—	—	5.0 B	6.4 B	4.2 B	0.8		
Copper	—	—	—	—	—	—	—	—	—	—	4.4 B	8.8 B	6.0 B	8.6		
Cyanide	—	—	—	6.0 B	5.0 B	—	—	4.0 U	—	4.0 B	4.0 U	4.0 U	3.0 U	3.0	10	10
Iron	—	—	—	—	—	—	—	—	—	—	3,380.0	1,620.0	3,290.0	3,360.0		
Lead	—	—	—	—	—	—	—	—	—	—	1.3 U	1.4 B	1.5 UJ	1.5		
Mercury	—	—	—	—	—	—	—	—	—	—	0.1 U	0.1 U	0.1 U	0.1		
Nickel	—	—	—	—	—	—	—	—	—	—	5.1 B	2.5 B	3.4 B	4.2		
Selenium	—	—	—	—	—	—	—	—	—	—	4.0 U	4.0 UJ	4.4 U	4.4 UJ		
Silver	—	—	—	—	—	—	—	—	—	—	2.6 B	0.5 U	0.4 U	0.4		
Thallium	—	—	—	—	—	—	—	—	—	—	3.6 UJ	3.6 U	2.6 UJ	2.6 UJ		
Zinc	—	—	—	—	—	—	—	—	—	—	35.4	59.0	32.3	42.9 J		
Volatile Organic Compounds (VOCs)	—	—	—	BRL	BRL	—	—	BRL	—	BRL	BRL	BRL	BRL	BRL		
Semi-Volatile Organic Compounds (SVOCs)	—	—	—	BRL	BRL	—	—	BRL	—	BRL	BRL	BRL	BRL	BRL		
Pesticides / PCBs	—	—	—	—	—	—	—	BRL	—	BRL	BRL	BRL	BRL	BRL		

Notes:
1) All results expressed in micrograms per liter (µg/L).
2) Standard Inorganic Data Qualifiers have been used.
3) *Yellow shading indicate a detection above the Contract Required Quantitation Limit (CRQL)*
4) Bold red letters with a thick outline indicates a detection above the Trigger Level.
5) BRL = Below Report Limit; reported data values have a data qualifier of U. J, or UJ
6) — = Not Sampled or 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.

APPENDIX C

LABORATORY DATA VALIDATION REPORT

EarthTech
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APPENDIX C

DATA VALIDATION REPORT

FOR

SKINNER LANDFILL SITE

EARTH TECH: PROJECT NUMBER 38335

LABORATORY REPORT NUMBER 203081303

PROJECT MANAGER: Ron Rolker

Date: October 7, 2003

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 203081303 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in August 2003, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. These data were reported by GCAL under Sample Delivery Group (SDG) 203081303.

GCAL #	Sample Description
20308130301	SKGW641007
20308130302	SKGW591007
20308130303	SKGW62A1007
20308130304	SKGW601007
20308130305	SKGW651007
20308130307	SKGW641007 (DISS)
20308130308	SKGW591007 (DISS)
20308130309	SKGW62A1007 (DISS)
20308140701	SKGW07R1007
20308140702	SKGW06R1007
20308140710	SKGW581007
20308140711	SKGW58D1007
20308140712	SKGW611007
20308140713	SKGW611007MS
20308140715	SKGW611007DUP
20308140716	SKGW631007
20308140717	SKGWFB1007
20308140719	SKGW07R1007 (DISS)
20308140720	SKGW06R1007 (DISS)
20308140727	SKGW581007 (DISS)
20308140728	SKGW58D1007 (DISS)
20308140729	SKGW611007 (DISS)
20308140730	SKGW611007MS (DISS)
20308140731	SKGW611007DUP (DISS)
20308140732	SKGW631007 (DISS)
20308140733	SKGWFB1007 (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 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 inorganics data validation findings and conclusions are provided in the following sections of this report:

1. Holding Times
2. Calibration
   A. Initial Calibration (IC)
   B. Continuing Calibration (CC)
3. Blanks
4. Inductively Coupled Plasma (ICP) Interference Check Sample
5. Laboratory Control Sample (LCS)
6. Duplicate Analysis

7. Spike Sample Analysis
8. ICP Serial Dilution
9. System Performance
10. Documentation
11. Overall Assessment

1. HOLDING TIMES

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

2. CALIBRATION

A. Initial Calibration

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

B. Continuing Calibration

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

3. BLANKS

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

4. ICP INTERFERENCE CHECK SAMPLE

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

5. LABORATORY CONTROL SAMPLES

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

6. DUPLICATE ANALYSIS

The laboratory used sample SKGW611007 and SKGW611007 (Dissolved) for the duplicate sample. The RPD between the sample and duplicate were within the acceptance criteria for all target compounds in the total fraction with the exception of Chromium, Iron, Lead, and Zinc. The RPD between the sample and duplicate were within the acceptance criteria for all target compounds in the dissolved fraction with the exception of Iron. 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 SKGW611007 and SKGW611007 (Dissolved) for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) in the total fraction with the exception of Lead (136%), Selenium (0%), and Thallium (50%). The MS percent recoveries were within the acceptance criteria (75%-125%) in the dissolved fraction with the exception of Selenium (143%). As per the National Functional Guidelines: if spike recovery results is greater than 30% but less than the lower acceptance limit then qualify the detected results for that analyte with "J" and non-detected results with "UJ". If the spike recovery is greater than 125% then qualify detected results for that analyte with "J". If spike recovery results fall less than 30% and the sample results are less than IDL, qualify the data for these samples as unusable "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 percent differences were within the acceptance criteria for all target analytes in the total and dissolved fractions with the exception Barium associated with the dissolved fraction. As per the National Functional Guidelines; if the serial dilution acceptance is not meet then qualify the associated detected results with "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

The documentation appeared accurate and in order.

11. OVERALL ASSESSMENT

The percent recoveries for Selenium in the Contract Required Detection Limit (CRDL) standards were 188.8%, and 152.5%. The detected Selenium results were qualified with as estimated with "J".

Iron, Nickel, and Zinc were detected in the Field Blank (Total) at a concentration of 20.3 B, 0.7 B, and 11.4 B ppb respectively. Beryllium, Chromium, and Thallium were detected in the Field Blank (Dissolved) at a concentration of 0.1 B, 0.9 B, and 2.7 B ppb respectively. It should be noted that the laboratory supplied the water used for the Field Blank. The results that are greater than the IDL but less than the CRDL are flagged with a ("B") qualifier by the laboratory.

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 203081303
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 August 2003, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. These data were reported by GCAL under SDG 203081303.

GCAL #	Sample Description
20308130301	SKGW641007
20308130302	SKGW591007
20308130303	SKGW62A1007
20308130304	SKGW601007
20308130305	SKGW651007
20308140701	SKGW07R1007
20308140702	SKGW06R1007
20308140710	SKGW581007
20308140711	SKGW58D1007
20308140712	SKGW611007
20308140713	SKGW611007MS
20308140714	SKGW611007MSD
20308140716	SKGW631007
20308140717	SKGWFB1007

INTRODUCTION

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

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

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

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

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

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

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

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

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

1. HOLDING TIMES

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

2. GC/MS TUNING

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

3. CALIBRATION

A. Initial Calibration

One IC dated 8/20/03 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.

The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Diethylphthalate. The lowest point of the calibration curve was dropped and the %RSD was recalculated. The recalculated %RSD was 5.6%, which is within the acceptance criteria of less than 30%. Diethylphthalate results less than 50 ppb but greater than the IDL were qualified as estimated with a "J" by the data validator.

B. Continuing Calibration

One CC dated 8/20/03 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC dated 8/20/03 were within the acceptance criteria for all reported analytes. The percent difference (%D) between the average RRF's and the CC Response Factors were within the acceptance criteria for all reported analytes

4. BLANKS

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

Method Blank (114735)

Di-n-butyl phthalate (1.05 ppb) was detected in the method blank extracted on 8/14/03. The results for Di-n-butyl phthalate less than 10.5 ppb were qualified with "U" for samples extracted with method blank 114735.

Bis (2-Ethylhexyl) phthalate (0.78 J ppb) was also detected in the method blank extracted on 8/14/03. The results for bis (2-Ethylhexyl) phthalate less than 7.8 ppb were qualified with "U" for samples extracted with method blank 114735.

Field Blank (SKGWFB1007)

The presence of Di-n-butyl phthalate and bis (2-Ethylhexyl) phthalate detected in the field blank was mitigated because Di-n-butyl phthalate and bis (2-Ethylhexyl) phthalate were detected in the associated method blank.

5. SYSTEM MONITORING COMPOUND RECOVERY

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

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSW51 1007 was used for the matrix spike/matrix spike duplicate sample. The MS/MSD percent recoveries were within the acceptance criteria with the exception of 4-Nitrophenol in the MSD. The RPD between the MS and MSD were 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.

12. OVERALL ASSESSMENT

There was low-level Di-n-butylphthalate and bis (2-Ethylhexyl) phthalate contamination associated with the extraction/analysis of the ground water samples. It should be noted that phthalates are a common laboratory. The presence of Di-n-butylphthalate and bis (2-Ethylhexyl) phthalate was mitigated in all but two of the ground water samples. The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 203081303 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 August 2003, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. These data were reported by GCAL under SDG 203081303.

GCAL #	Sample Description
20308130301	SKGW641007
20308130302	SKGW591007
20308130303	SKGW62A1007
20308130304	SKGW601007
20308130305	SKGW651007
20308130306	SKGWTB1007
20308140701	SKGW07R1007
20308140702	SKGW06R1007
20308140710	SKGW581007
20308140711	SKGW58D1007
20308140712	SKGW611007
20308140713	SKGW611007MS
20308140714	SKGW611007MSD
20308140716	SKGW631007
20308140717	SKGWFB1007
20308140718	SKGWTB1007

INTRODUCTION

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

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

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

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

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

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

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

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

13. Overall Assessment

1. HOLDING TIMES

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

2. GC/MS TUNING

All samples were analyzed on a single GC/MS system, identified as MSV0. Four bromofluorobenzene (BFB) tunes were run. The BFB tunes were acceptable.

3. CALIBRATION

A. Initial Calibration

Three IC's dated 8/15/03, 8/19/03, and 8/20/03 were analyzed on Instrument MSV0 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards was 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's dated 8/15/03 and 8/20/03 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).

The RRF's and the average RRF for the IC dated 8/19/03 were within the acceptance criteria specified in the method for all target analytes.

B. Continuing Calibration

Four CC's dated 8/15/03, 8/19/30, 8/20/03, and 8/21/03 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 for the CC's dated 8/15/03, 8/20/03. The CC RRF's were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone and 1,2-Dibromo-3-chloropropane for the CC dated 8/21/03.

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).

4. BLANKS

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

Method Blanks

0815V0BLK01 (8/15/03 1353)

Chloroform was detected at a concentration of 0.66 ppb in the method blank analyzed on 8/15/03.

0819V2BLK01 (8/19/03 1942)

There was no target analytes detected in the method blank analyzed on 8/19/03.

0820V0BLK01 (8/20/03 1723)

Chloroform and Methylene chloride were detected at a concentration of 0.58 and 0.49 ppb respectively in the method blank analyzed on 8/20/03.

0821V0BLK01 (8/21/03 1225)

There was no target analytes detected in the method blank analyzed on 8/21/03.

Storage Blank (VHBLK01)

Chloroform and Methylene chloride were detected at a concentration of 0.64 and 0.44 ppb respectively in the storage blank.

Trip Blank (SKGWTB1007)

Methylene chloride was detected at a concentration of 0.96 ppb in Trip Blank SKGWTB1007 collected on 8/12/03. Sulfur dioxide was detected at a concentration of 38 ppb in Trip Blank SKGWTB1007 collected 8/12/03.

Trip Blank (SKGWTB1007)

Bromomethane and Methylene chloride were detected at a concentration of 8.3 and 1.2 ppb respectively in Trip Blank SKGWTB1007 collected on 8/13/03. Sulfur dioxide was also detected at a concentration of 0.4 ppb in Trip Blank SKGWTB1007 collected on 8/13/03.

Field Blank (SKGWFB1007)

Bromomethane and Methylene chloride were detected at a concentration of 17 and 0.96 ppb respectively in the Field Blank collected on 8/13/03.

5. SYSTEM MONITORING COMPOUND RECOVERY

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

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKGW06R 1006 was submitted for MS/MSD analysis. The percent recoveries and RDP between the MS/MSD were within the acceptance limits. A matrix spike/matrix spike duplicate is not required when analyzing samples under the CLP SOW OLC02.0

7. LABORATORY CONTROL SAMPLE

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

8. INTERNAL STANDARDS PERFORMANCE

Internal Standard 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

Acetone is a common laboratory contaminant and the low level of Acetone detected in samples SKGW581007 and SKGW58D1007 could be attributed to laboratory contamination. The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY - SAMPLE DELIVERY GROUP 203081303 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 August 2003, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. These data were reported by GCAL under SDG 203081303.

GCAL #	Sample Description
20308130301	SKGW641007
20308130302	SKGW591007
20308130303	SKGW62A1007
20308140701	SKGW07R1007
20308140702	SKGW06R1007
20308140710	SKGW581007
20308140711	SKGW58D1007
20308140712	SKGW611007
20308140713	SKGW611007MS
20308140714	SKGW611007MSD
20308140716	SKGW631007
20308140717	SKGWFB1007

INTRODUCTION

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

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

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

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

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

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

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

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

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

1. HOLDING TIMES

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

2. GC/ECD INSTRUMENT PERFORMANCE CHECK

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

The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check. The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM).

The percent breakdown for both 4,4-DDT and Endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4-DDT and Endrin in each PEM was less than 30.0% for both GC columns.

3. INITIAL CALIBRATION

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

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20% with the exception of 4,4'-DDT (20.3%) and Endrin (20.9%) analyzed on the secondary column. As per the National Functional Guidelines, up to two single component target pesticides (other than the surrogates) per column may exceed the 20.0 percent limit but the %RSD must be less than or equal to 30.0 percent.

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 between the calculated and true amount for each of the pesticides and surrogates were within 25% with the exception of the following:

<u>INDAM02 (primary column)</u>
Endrin (40%)

<u>INDAM03 (primary column)</u>
Endrin (75%)

As per the National Functional Guidelines, if the percent difference is greater than 25 percent for the compound(s) being quantified, qualify all associated positive quantitative results with "J" and the sample quantitation limits for non-detects with "UJ".

5. BLANKS

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

Method Blank 114792

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 8/15/03.

6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria (30%-150%) for all samples with the exception of the following:

Sample ID	TCX	DCB
SKGW641007	22%	19%
SKGW58D1007		24%/29%
SKGW631007		22%/25%

As per the National Functional Guidelines, if low recoveries (i.e., between 10 and 30 percent) are obtained, associated detected compounds should be qualified "J" and quantitation limits "UJ".

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKGW611007 as used for the matrix spike/matrix spike duplicate sample. The MS/MSD percent recoveries were within the acceptance criteria with the exception of Endrin in the MS. The RPD between the MS and MSD were within the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD data alone.

8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup. The results have been previously qualified therefore further data qualification is not required.

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.

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.*

APPENDIX D

LABORATORY ANALYTICAL RESULTS

EarthTech
A Tyco International Ltd Company

GCAL

GULF COAST ANALYTICAL LABORATORIES, INC

NELAP CERTIFICATE NUMBER 01955

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 09/05/2003

GCAL Report 203081303

PART 1 OF 2

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

Customer Earth Tech

Project Skinner Landfill

000001

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

CASE NARRATIVE

Client: Earth Tech **Report:** 203081303

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 prep batch 261300, the MS/MSD exhibited sporadic recovery failures. These recoveries were within limits in the LCS. This is attributed to matrix interference.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the secondary analysis for PEM04, INDAM02 and INDAM03, the response for Endrin was high in all three cases, however there was no Endrin reported in the samples and Endrin was not being confirmed on this column.

In the CLP analysis, several surrogate recoveries were outside advisory QC limits.

The MS recovery for Endrin is above the control limit.

METALS

Barium is flagged as estimated for samples associated with prep batch 261421 due to the fact that the percent difference between the original sample result and the serial dilution result is greater than ten. A chemical or physical interference is suspected. In the ILM04.1 - CLP Metals analysis the MS recovery was outside the control limits for Selenium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 86%. The MS recovery is not applicable for Iron because the sample concentration is greater than four times the spike concentration. The LCS was above the upper control limit for Antimony. The Sample/Duplicate RPD for Iron was outside the control limits. The heterogeneous nature of the QC sample is believed to be responsible for this.

In the ILM04.1 - CLP Metals analysis for prep batch 261419, the MS recovery was outside the control limits for Lead, Selenium, and Thallium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 92% for Lead, 0% for Selenium, and 30% for Thallium. The MS recovery is not applicable for Iron because the sample concentration is greater than four times the spike concentration. The Sample Duplicate RPD for Chromium, Iron, Lead, and

Zinc was outside the control limits. The heterogeneous nature of the QC sample is believed to be responsible for this.

Laboratory Endorsement

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

Common Abbreviations Utilized in this Report

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

Reporting Flags Utilized in this Report

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

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

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

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

SCOTT A. BAILEY
OPERATIONS MANAGER
GCAL REPORT 203081303

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20308130301	SKGW641007	Water	08/12/2003 15:30	08/13/2003 09:35
20308130302	SKGW591007	Water	08/12/2003 13:33	08/13/2003 09:35
20308130303	SKGW62A1007	Water	08/12/2003 14:07	08/13/2003 09:35
20308130304	SKGW601007	Water	08/12/2003 13:59	08/13/2003 09:35
20308130305	SKGW651007	Water	08/12/2003 15:50	08/13/2003 09:35
20308130306	SKGWTB1007	Water	08/12/2003 00:00	08/13/2003 09:35
20308130307	SKGW641007 (DISS)	Water	08/12/2003 15:30	08/13/2003 09:35
20308130308	SKGW591007 (DISS)	Water	08/12/2003 13:33	08/13/2003 09:35
20308130309	SKGW62A1007 (DISS)	Water	08/12/2003 14:07	08/13/2003 09:35
20308140701	SKGW07R1007	Water	08/13/2003 10:22	08/14/2003 09:20
20308140702	SKGW06R1007	Water	08/13/2003 09:52	08/14/2003 09:20
20308140710	SKGW581007	Water	08/13/2003 15:35	08/14/2003 09:20
20308140711	SKGW58D1007	Water	08/13/2003 16:15	08/14/2003 09:20
20308140712	SKGW611007	Water	08/13/2003 16:50	08/14/2003 09:20
20308140713	SKGW611007MS	Water	08/13/2003 17:10	08/14/2003 09:20
20308140714	SKGW611007MSD	Water	08/13/2003 17:32	08/14/2003 09:20
20308140715	SKGW611007DUP	Water	08/13/2003 17:32	08/14/2003 09:20
20308140716	SKGW631007	Water	08/13/2003 17:55	08/14/2003 09:20
20308140717	SKGWFB1007	Water	08/13/2003 18:30	08/14/2003 09:20
20308140718	SKGWTB1007	Water	08/13/2003 00:00	08/14/2003 09:20
20308140719	SKGW07R1007(DISS)	Water	08/13/2003 10:22	08/14/2003 09:20
20308140720	SKGW06R1007(DISS)	Water	08/13/2003 09:52	08/14/2003 09:20
20308140727	SKGW581007(DISS)	Water	08/13/2003 15:35	08/14/2003 09:20
20308140728	SKGW58D1007(DISS)	Water	08/13/2003 16:15	08/14/2003 09:20
20308140729	SKGW611007(DISS)	Water	08/13/2003 16:50	08/14/2003 09:20
20308140730	SKGW611007MS(DISS)	Water	08/13/2003 17:10	08/14/2003 09:20
20308140731	SKGW611007DUP(DISS)	Water	08/13/2003 17:32	08/14/2003 09:20
20308140732	SKGW631007(DISS)	Water	08/13/2003 17:55	08/14/2003 09:20
20308140733	SKGWFB1007(DISS)	Water	08/13/2003 18:50	08/14/2003 09:20

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SHGW641007

Lab Code: LA024 | Case No: | Contract:

Matrix: Water | SAS No.: | SDG No.: 203081303

Sample wt/vol: 25 | Units: mL | Lab Sample ID: 20308130301

Level: (low/med) | Lab File ID: 2030815/S5536

% Moisture: not dec. | Date Collected: 08/12/03 | Time: 1530

GC Column: DB-624-30M | ID: .53 (mm) | Date Received: 08/13/03

Instrument ID: MSV0 | Date Analyzed: 08/15/03 | Time: 1736

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

Soil Aliquot Volume: (µL) | Prep Method:

CONCENTRATION UNITS: ug/L | Analytical Method: OLC02.1 - CLP Vo

CAS NO.	COMPOUND	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	5.0	U	5.0	R
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
75-15-0	Carbon disulfide	1.0	U	1.0	
56-23-5	Carbon tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
75-09-2	Methylene chloride	2.0	U	2.0	
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene	1.0	U	1.0	

10/7/03

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKGW641007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308130301

Lab File ID: 2030815/S5536

Date Collected: 08/12/03 Time: 1530

Date Received: 08/13/03

Date Analyzed: 08/15/03 Time: 1736

Dilution Factor: 1 Analyst: RJO

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW641007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: Water Lab Sample ID: 20308130301

Sample wt/vol: Units: Lab File ID: 2030815/S5536

Level: (low/med) Date Collected: 08/12/03 Time: 1530

% Moisture: not dec. Date Received: 08/13/03

GC Column: DB-624-30M ID: 53 (mm) Date Analyzed: 08/15/03 Time: 1736

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q	
1.	7446-09-5	Sulfur dioxide	3.708	6.95		u

rcl 9/03 mc

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKGW591007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308130302

Lab File ID: 2030815/S5540

Date Collected: 08/12/03 Time: 1333

Date Received: 08/13/03

Date Analyzed: 08/15/03 Time: 1913

Dilution Factor: 1 Analyst: RJO

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0
75-34-3	1,1-Dichloroethane	1.0	U	1.0
75-35-4	1,1-Dichloroethene	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
540-59-0	1,2-Dichloroethene	1.0	U	1.0
78-87-5	1,2-Dichloropropane	1.0	U	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
78-93-3	2-Butanone	5.0	U	5.0
591-78-6	2-Hexanone	5.0	U	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0
67-64-1	Acetone	5.0	U	5.0
71-43-2	Benzene	1.0	U	1.0
75-27-4	Bromodichloromethane	1.0	U	1.0
75-25-2	Bromoform	1.0	U	1.0
74-83-9	Bromomethane	1.0	U	1.0
75-15-0	Carbon disulfide	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
75-00-3	Chloroethane	1.0	U	1.0
67-66-3	Chloroform	1.0	U	1.0
74-87-3	Chloromethane	1.0	U	1.0
124-48-1	Dibromochloromethane	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0
100-41-4	Ethylbenzene	1.0	U	1.0
75-09-2	Methylene chloride	2.0	U	2.0
100-42-5	Styrene	1.0	U	1.0
127-18-4	Tetrachloroethene	1.0	U	1.0

R

1-17-03 MM

FORM I VOA

VA

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentrated Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SMGM591007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308130302

Lab File ID: 2030815/S5540

Date Collected: 08/12/03 Time: 1333

Date Received: 08/13/03

Date Analyzed: 08/15/03 Time: 1913

Dilution Factor: 1 Analyst: RJO

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW591007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: Water Lab Sample ID: 20308130302

Sample wt/vol: Units: Lab File ID: 2030815/S5540

Level: (low/med) Date Collected: 08/12/03 Time: 1333

% Moisture: not dec. Date Received: 08/13/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 08/15/03 Time: 1913

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q	
1.	7446-09-5	Sulfur dioxide	2.388	5.2		u

10/7/03
[illegible]

FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGMSDA1007

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

Matrix: Water | SAS No.: | SDG No.: 203081303

Sample wt/vol: 25 | Units: mL | Lab Sample ID: 20308130303

Level: (low/med) | Lab File ID: 2030815/S5541

% Moisture: not dec. | Date Collected: 08/12/03 | Time: 1407

GC Column: DB-624-30M | ID: .53 (mm) | Date Received: 08/13/03

Instrument ID: MSV0 | Date Analyzed: 08/15/03 | Time: 1937

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

Soil Aliquot Volume: (µL) | Prep Method:

CONCENTRATION UNITS: ug/L | Analytical Method: OLC02.1 - CLP Vo

CAS NO.	COMPOUND	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	5.0	U	5.0	R
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
75-15-0	Carbon disulfide	1.0	U	1.0	
56-23-5	Carbon tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
75-09-2	Methylene chloride	2.0	U	2.0	
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene	1.0	U	1.0	

10/7/03

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKGW62A1007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308130303

Lab File ID: 2030815/S5541

Date Collected: 08/12/03 Time: 1407

Date Received: 08/13/03

Date Analyzed: 08/15/03 Time: 1937

Dilution Factor: 1 Analyst: RJO

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW62A1007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No. SDG No.: 203081303

Matrix: Water Lab Sample ID: 20308130303

Sample wt/vol: Units: Lab File ID: 20308155S5541

Level: (low/med) Date Collected: 08/12/03 Time: 1407

% Moisture: not dec. Date Received: 08/13/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 08/15/03 Time: 1937

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q	
1.	7446-09-5	Sulfur dioxide	2.299	4.17		U

10/17/03
mr

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKGW601007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308130304

Lab File ID: 2030815/S5542

Date Collected: 08/12/03 Time: 1359

Date Received: 08/13/03

Date Analyzed: 08/15/03 Time: 2001

Dilution Factor: 1 Analyst: RJO

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0
75-34-3	1,1-Dichloroethane	1.0	U	1.0
75-35-4	1,1-Dichloroethene	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
540-59-0	1,2-Dichloroethene	1.0	U	1.0
78-87-5	1,2-Dichloropropane	1.0	U	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
78-93-3	2-Butanone	5.0	U	5.0
591-78-6	2-Hexanone	5.0	U	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0
67-64-1	Acetone	5.0	U	5.0 R
71-43-2	Benzene	1.0	U	1.0
75-27-4	Bromodichloromethane	1.0	U	1.0
75-25-2	Bromoform	1.0	U	1.0
74-83-9	Bromomethane	1.0	U	1.0
75-15-0	Carbon disulfide	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
75-00-3	Chloroethane	1.0	U	1.0
67-66-3	Chloroform	1.0	U	1.0
74-87-3	Chloromethane	1.0	U	1.0
124-48-1	Dibromochloromethane	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0
100-41-4	Ethylbenzene	1.0	U	1.0
75-09-2	Methylene chloride	2.0	U	2.0
100-42-5	Styrene	1.0	U	1.0
127-18-4	Tetrachloroethene	1.0	U	1.0

10/7/03 mtec

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentrated Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKGW601007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308130304

Lab File ID: 2030815/S5542

Date Collected: 08/12/03 Time: 1359

Date Received: 08/13/03

Date Analyzed: 08/15/03 Time: 2001

Dilution Factor: 1 Analyst: RJO

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW601007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: Water Lab Sample ID: 20308130304

Sample wt/vol: Units: Lab File ID: 2030815/S5542

Level: (low/med) Date Collected: 08/12/03 Time: 1359

% Moisture: not dec. Date Received: 08/13/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 08/15/03 Time: 2001

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	7446-09-5	Sulfur dioxide	2.231	740	

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW-651007

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

Matrix: Water | SAS No.: | SDG No.: 203081303

Sample wt/vol: 25 | Units: mL | Lab Sample ID: 20308130305

Level: (low/med) | Lab File ID: 20308615/S5543

% Moisture: not dec. | Date Collected: 08/12/03 | Time: 1550

GC Column: DB-624-30M | ID: .53 (mm) | Date Received: 08/13/03

Instrument ID: MSV0 | Date Analyzed: 08/15/03 | Time: 2024

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

Soil Aliquot Volume: (µL) | Prep Method:

CONCENTRATION UNITS: ug/L | Analytical Method: OLC02.1 - CLP Vo

CAS NO.	COMPOUND	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0
75-34-3	1,1-Dichloroethane	1.0	U	1.0
75-35-4	1,1-Dichloroethene	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
540-59-0	1,2-Dichloroethene	1.0	U	1.0
78-87-5	1,2-Dichloropropane	1.0	U	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
78-93-3	2-Butanone	5.0	U	5.0
591-78-6	2-Hexanone	5.0	U	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0
67-64-1	Acetone	5.0	U	5.0
71-43-2	Benzene	1.0	U	1.0
75-27-4	Bromodichloromethane	1.0	U	1.0
75-25-2	Bromoform	1.0	U	1.0
74-83-9	Bromomethane	1.0	U	1.0
75-15-0	Carbon disulfide	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
75-00-3	Chloroethane	1.0	U	1.0
67-66-3	Chloroform	1.0	U	1.0
74-87-3	Chloromethane	1.0	U	1.0
124-48-1	Dibromochloromethane	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0
100-41-4	Ethylbenzene	1.0	U	1.0
75-09-2	Methylene chloride	2.0	U	2.0
100-42-5	Styrene	1.0	U	1.0
127-18-4	Tetrachloroethene	1.0	U	1.0

R

10/7/03 [illegible]

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKGW651007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308130305

Lab File ID: 2030815/S5543

Date Collected: 08/12/03 Time: 1550

Date Received: 08/13/03

Date Analyzed: 08/15/03 Time: 2024

Dilution Factor: 1 Analyst: RJO

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGM551307

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: Water Lab Sample ID: 20308130305

Sample wt/vol: Units: Lab File ID: 2030815/S5543

Level: (low/med) Date Collected: 08/12/03 Time: 1550

% Moisture: not dec. Date Received: 08/13/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 08/15/03 Time: 2024

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	7446-09-5	Sulfur dioxide	2.292	36	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKGWTB1007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308130306

Lab File ID: 2030815/S5529

Date Collected: 08/12/03 Time: 0000

Date Received: 08/13/03

Date Analyzed: 08/15/03 Time: 1443

Dilution Factor: 1 Analyst: RSP

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0
75-34-3	1,1-Dichloroethane	1.0	U	1.0
75-35-4	1,1-Dichloroethene	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
540-59-0	1,2-Dichloroethene	1.0	U	1.0
78-87-5	1,2-Dichloropropane	1.0	U	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
78-93-3	2-Butanone	5.0	U	5.0
591-78-6	2-Hexanone	5.0	U	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0
67-64-1	Acetone	5.0	U	5.0
71-43-2	Benzene	1.0	U	1.0
75-27-4	Bromodichloromethane	1.0	U	1.0
75-25-2	Bromoform	1.0	U	1.0
74-83-9	Bromomethane	1.0	U	1.0
75-15-0	Carbon disulfide	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
75-00-3	Chloroethane	1.0	U	1.0
67-66-3	Chloroform	1.0	U	1.0
74-87-3	Chloromethane	1.0	U	1.0
124-48-1	Dibromochloromethane	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0
100-41-4	Ethylbenzene	1.0	U	1.0
75-09-2	Methylene chloride	0.96	J	2.0
100-42-5	Styrene	1.0	U	1.0
127-18-4	Tetrachloroethene	1.0	U	1.0

R

10/7/03 m2

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentrated Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKGWTB1007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308130306

Lab File ID: 2030815/S5529

Date Collected: 08/12/03 Time: 0000

Date Received: 08/13/03

Date Analyzed: 08/15/03 Time: 1443

Dilution Factor: 1 Analyst: RSP

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGWTB1007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: Water Lab Sample ID: 20308130306

Sample wt/vol: Units: Lab File ID: 2030815/S5529

Level: (low/med) Date Collected: 08/12/03 Time: 0000

% Moisture: not dec. Date Received: 08/13/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 08/15/03 Time: 1443

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.	7446-09-5	Sulfur dioxide	2.284	37.8	

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SHGW07R1007

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

Matrix: Water | SAS No.: | SDG No.: 203081303

Sample wt/vol: 25 | Units: mL | Lab Sample ID: 20308140701

Level: (low/med) | Lab File ID: 2030815/S5544

% Moisture: not dec. | Date Collected: 08/13/03 | Time: 1022

GC Column: DB-624-30M | ID: .53 (mm) | Date Received: 08/14/03

Instrument ID: MSV0 | Date Analyzed: 08/15/03 | Time: 2047

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

Soil Aliquot Volume: (µL) | Prep Method:

CONCENTRATION UNITS: ug/L | Analytical Method: OLC02.1 - CLP Vo

CAS NO.	COMPOUND	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0
75-34-3	1,1-Dichloroethane	1.0	U	1.0
75-35-4	1,1-Dichloroethene	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
540-59-0	1,2-Dichloroethene	1.0	U	1.0
78-87-5	1,2-Dichloropropane	1.0	U	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
78-93-3	2-Butanone	5.0	U	5.0
591-78-6	2-Hexanone	5.0	U	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0
67-64-1	Acetone	5.0	U	5.0 R
71-43-2	Benzene	1.0	U	1.0
75-27-4	Bromodichloromethane	1.0	U	1.0
75-25-2	Bromoform	1.0	U	1.0
74-83-9	Bromomethane	1.0	U	1.0
75-15-0	Carbon disulfide	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
75-00-3	Chloroethane	1.0	U	1.0
67-66-3	Chloroform	1.0	U	1.0
74-87-3	Chloromethane	1.0	U	1.0
124-48-1	Dibromochloromethane	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0
100-41-4	Ethylbenzene	1.0	U	1.0
75-09-2	Methylene chloride	2.0	U	2.0
100-42-5	Styrene	1.0	U	1.0
127-18-4	Tetrachloroethene	1.0	U	1.0

10/7/03 mL

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKGW07R1007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308140701

Lab File ID: 2030815/S5544

Date Collected: 08/13/03 Time: 1022

Date Received: 08/14/03

Date Analyzed: 08/15/03 Time: 2047

Dilution Factor: 1 Analyst: RJO

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW07R1007

Lab Name: GCAL Contract:

Lab Code: L4024 Case No: SAS No.: SDG No.: 203081303

Matrix: Water Lab Sample ID: 20308140701

Sample wt/vol: Units: Lab File ID: 2030815/S5544

Level: (low/med) Date Collected: 08/13/03 Time: 1022

% Moisture: not dec. Date Received: 08/14/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 08/15/03 Time: 2047

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q	
1.	7446-09-5	Sulfur dioxide	2.297	20.2		U

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FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKGW06R1007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308140702

Lab File ID: 2030815/S5545

Date Collected: 08/13/03 Time: 0952

Date Received: 08/14/03

Date Analyzed: 08/15/03 Time: 2110

Dilution Factor: 1 Analyst: RJO

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0
75-34-3	1,1-Dichloroethane	1.0	U	1.0
75-35-4	1,1-Dichloroethene	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
540-59-0	1,2-Dichloroethene	1.0	U	1.0
78-87-5	1,2-Dichloropropane	1.0	U	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
78-93-3	2-Butanone	5.0	U	5.0
591-78-6	2-Hexanone	5.0	U	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0
67-64-1	Acetone	5.0	U	5.0
71-43-2	Benzene	1.0	U	1.0
75-27-4	Bromodichloromethane	1.0	U	1.0
75-25-2	Bromoform	1.0	U	1.0
74-83-9	Bromomethane	1.0	U	1.0
75-15-0	Carbon disulfide	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
75-00-3	Chloroethane	1.0	U	1.0
67-66-3	Chloroform	1.0	U	1.0
74-87-3	Chloromethane	1.0	U	1.0
124-48-1	Dibromochloromethane	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0
100-41-4	Ethylbenzene	1.0	U	1.0
75-09-2	Methylene chloride	2.0	U	2.0
100-42-5	Styrene	1.0	U	1.0
127-18-4	Tetrachloroethene	1.0	U	1.0

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FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SKGW06R1007
Lab Code:	LA024 Case No.:	Contract:	
Matrix:	Water	SAS No.:	SDG No.: 203081303
Sample wt/vol:	25 Units: mL	Lab Sample ID:	20308140702
Level: (low/med)		Lab File ID:	2030815/S5545
% Moisture: not dec.		Date Collected:	08/13/03 Time: 0952
GC Column:	DB-624-30M ID: .53 (mm)	Date Received:	08/14/03
Instrument ID:	MSV0	Date Analyzed:	08/15/03 Time: 2110
Concentrated Extract Volume:	(µL)	Dilution Factor:	1 Analyst: RJO
Soil Aliquot Volume:	(µL)	Prep Method:	
		Analytical Method:	OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW06R1007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: Water Lab Sample ID: 20308140702

Sample wt/vol: Units: Lab File ID: 2030815/S5545

Level: (low/med) Date Collected: 08/13/03 Time: 0952

% Moisture: not dec. Date Received: 08/14/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 08/15/03 Time: 2110

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q	
1.	7446-09-5	Sulfur dioxide	2.326	11.5		u

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FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentrated Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SHGW581007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308140710

Lab File ID: 2030819/S5617

Date Collected: 08/13/03 Time: 1535

Date Received: 08/14/03

Date Analyzed: 08/20/03 Time: 0002

Dilution Factor: 1 Analyst: RSP

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0
75-34-3	1,1-Dichloroethane	1.0	U	1.0
75-35-4	1,1-Dichloroethene	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
540-59-0	1,2-Dichloroethene	1.0	U	1.0
78-87-5	1,2-Dichloropropane	1.0	U	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
78-93-3	2-Butanone	5.0	U	5.0
591-78-6	2-Hexanone	5.0	U	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0
67-64-1	Acetone	8.0		5.0
71-43-2	Benzene	1.0	U	1.0
75-27-4	Bromodichloromethane	1.0	U	1.0
75-25-2	Bromoform	1.0	U	1.0
74-83-9	Bromomethane	1.0	U	1.0
75-15-0	Carbon disulfide	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
75-00-3	Chloroethane	1.0	U	1.0
67-66-3	Chloroform	1.0	U	1.0
74-87-3	Chloromethane	1.0	U	1.0
124-48-1	Dibromochloromethane	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0
100-41-4	Ethylbenzene	1.0	U	1.0
75-09-2	Methylene chloride	2.0	U	2.0
100-42-5	Styrene	1.0	U	1.0
127-18-4	Tetrachloroethene	1.0	U	1.0

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKGW581007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308140710

Lab File ID: 2030819/S5617

Date Collected: 08/13/03 Time: 1535

Date Received: 08/14/03

Date Analyzed: 08/20/03 Time: 0002

Dilution Factor: 1 Analyst: RSP

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW581007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No.: SDG No.: 203081303

Matrix: Water Lab Sample ID: 20308140710

Sample wt/vol: Units: Lab File ID: 2030819/S5617

Level: (low/med) Date Collected: 08/13/03 Time: 1535

% Moisture: not dec. Date Received: 08/14/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 08/20/03 Time: 0002

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.	7446-09-5	Sulfur dioxide	2.302	10.4		u

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKGW58D1007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308140711

Lab File ID: 2030819/S5618

Date Collected: 08/13/03 Time: 1615

Date Received: 08/14/03

Date Analyzed: 08/20/03 Time: 0026

Dilution Factor: 1 Analyst: RSP

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0
75-34-3	1,1-Dichloroethane	1.0	U	1.0
75-35-4	1,1-Dichloroethene	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
540-59-0	1,2-Dichloroethene	1.0	U	1.0
78-87-5	1,2-Dichloropropane	1.0	U	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
78-93-3	2-Butanone	5.0	U	5.0
591-78-6	2-Hexanone	5.0	U	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0
67-64-1	Acetone	4.8	J	5.0
71-43-2	Benzene	1.0	U	1.0
75-27-4	Bromodichloromethane	1.0	U	1.0
75-25-2	Bromoform	1.0	U	1.0
74-83-9	Bromomethane	1.0	U	1.0
75-15-0	Carbon disulfide	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
75-00-3	Chloroethane	1.0	U	1.0
67-66-3	Chloroform	1.0	U	1.0
74-87-3	Chloromethane	1.0	U	1.0
124-48-1	Dibromochloromethane	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0
100-41-4	Ethylbenzene	1.0	U	1.0
75-09-2	Methylene chloride	2.0	U	2.0
100-42-5	Styrene	1.0	U	1.0
127-18-4	Tetrachloroethene	1.0	U	1.0

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SKGW58D1007
Lab Code:	LA024	Case No.:	
Contract:			
Matrix:	Water	SAS No.:	
SDG No.:	203081303		
Sample wt/vol:	25 Units mL	Lab Sample ID:	20308140711
Level: (low/med)		Lab File ID:	2030819/S5618
% Moisture: not dec.		Date Collected:	08/13/03 Time: 1615
GC Column:	DB-624-30M ID: .53 (mm)	Date Received:	08/14/03
Instrument ID:	MSV0	Date Analyzed:	08/20/03 Time: 0026
Concentrated Extract Volume:	(µL)	Dilution Factor:	1 Analyst: RSP
Soil Aliquot Volume:	(µL)	Prep Method:	
		Analytical Method:	OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW58D1007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: Water Lab Sample ID: 20308140711

Sample wt/vol: Units: Lab File ID: 2030819/S5618

Level: (low/med) Date Collected: 08/13/03 Time: 1615

% Moisture: not dec. Date Received: 08/14/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 08/20/03 Time: 0026

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.	7446-09-5	Sulfur dioxide	2.317	6.56	

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No:
Matrix: Water
Sample wt/vol: 25 Units: mL
Level: (low/med)
% Moisture: not dec.
GC Column: DB-624-30M ID: .53 (mm)
Instrument ID: MSV0
Concentrated Extract Volume: (µL)
Soil Aliquot Volume: (µL)

Sample ID: SHGW811007
Contract:
SAS No.: SDG No.: 203081303
Lab Sample ID: 20308140712
Lab File ID: 2030819/S5615
Date Collected: 08/13/03 Time: 1650
Date Received: 08/14/03
Date Analyzed: 08/19/03 Time: 2312
Dilution Factor: 1 Analyst: RSP
Prep Method:
Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0
75-34-3	1,1-Dichloroethane	1.0	U	1.0
75-35-4	1,1-Dichloroethene	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
540-59-0	1,2-Dichloroethene	1.0	U	1.0
78-87-5	1,2-Dichloropropane	1.0	U	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
78-93-3	2-Butanone	5.0	U	5.0
591-78-6	2-Hexanone	5.0	U	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0
67-64-1	Acetone	5.0	U	5.0
71-43-2	Benzene	1.0	U	1.0
75-27-4	Bromodichloromethane	1.0	U	1.0
75-25-2	Bromoform	1.0	U	1.0
74-83-9	Bromomethane	1.0	U	1.0
75-15-0	Carbon disulfide	1.4		1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
75-00-3	Chloroethane	1.0	U	1.0
67-66-3	Chloroform	1.0	U	1.0
74-87-3	Chloromethane	1.0	U	1.0
124-48-1	Dibromochloromethane	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0
100-41-4	Ethylbenzene	1.0	U	1.0
75-09-2	Methylene chloride	0.13	J	2.0
100-42-5	Styrene	1.0	U	1.0
127-18-4	Tetrachloroethene	1.0	U	1.0

10/7/03

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKGW611007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308140712

Lab File ID: 2030819/S5615

Date Collected: 08/13/03 Time: 1650

Date Received: 08/14/03

Date Analyzed: 08/19/03 Time: 2312

Dilution Factor: 1 Analyst: RSP

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW611007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: Water Lab Sample ID: 20308140712

Sample wt/vol: Units: Lab File ID: 2030819/S5615

Level: (low/med) Date Collected: 08/13/03 Time: 1650

% Moisture: not dec. Date Received: 08/14/03

GC Column: DB-624-30M ID: 53 (mm) Date Analyzed: 08/19/03 Time: 2312

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.	7446-09-5	Sulfur dioxide	2.283	7.32		U

10/9/03

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKGW631007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308140716

Lab File ID: 2030820/S5644

Date Collected: 08/13/03 Time: 1755

Date Received: 08/14/03

Date Analyzed: 08/20/03 Time: 1749

Dilution Factor: 1 Analyst: RSP

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0
75-34-3	1,1-Dichloroethane	1.0	U	1.0
75-35-4	1,1-Dichloroethene	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
540-59-0	1,2-Dichloroethene	1.0	U	1.0
78-87-5	1,2-Dichloropropane	1.0	U	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
78-93-3	2-Butanone	5.0	U	5.0
591-78-6	2-Hexanone	5.0	U	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0
67-64-1	Acetone	5.0	U	5.0
71-43-2	Benzene	1.0	U	1.0
75-27-4	Bromodichloromethane	1.0	U	1.0
75-25-2	Bromoform	1.0	U	1.0
74-83-9	Bromomethane	1.0	U	1.0
75-15-0	Carbon disulfide	1.3		1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
75-00-3	Chloroethane	1.0	U	1.0
67-66-3	Chloroform	1.0	U	1.0
74-87-3	Chloromethane	1.0	U	1.0
124-48-1	Dibromochloromethane	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0
100-41-4	Ethylbenzene	1.0	U	1.0
75-09-2	Methylene chloride	2.0	U	2.0
100-42-5	Styrene	1.0	U	1.0
127-18-4	Tetrachloroethene	1.0	U	1.0

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SKGW631007
Lab Code:	LA024	Case No.:	
Contract:			
Matrix:	Water	SAS No.:	SDG No.: 203081303
Sample wt/vol:	25 Units: mL	Lab Sample ID:	20308140716
Level: (low/med)		Lab File ID:	2030820/S5644
% Moisture: not dec.		Date Collected:	08/13/03 Time: 1755
GC Column:	DB-624-30M ID: .53 (mm)	Date Received:	08/14/03
Instrument ID:	MSV0	Date Analyzed:	08/20/03 Time: 1749
Concentrated Extract Volume:	(µL)	Dilution Factor:	1 Analyst: RSP
Soil Aliquot Volume:	(µL)	Prep Method:	
		Analytical Method:	OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGW631007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: Water Lab Sample ID: 20308140716

Sample wt/vol: Units: Lab File ID: 2030820/S5644

Level: (low/med) Date Collected: 08/13/03 Time: 1755

% Moisture: not dec. Date Received: 08/14/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 08/20/03 Time: 1749

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.	74-98-6	Propane	2.115	4.36	
2.	124-40-3	Methanamine, N-methyl-	2.326	2.55	
3.	106-97-8	Butane	2.505	2.55	

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: 25 Units: mL
Level: (low/med)
% Moisture: not dec.
GC Column: DB-624-30M ID: .53 (mm)
Instrument ID: MSV0
Concentrated Extract Volume: (µL)
Soil Aliquot Volume: (µL)

Sample ID: SKGWFB1007
Contract:
SAS No. SDG No.: 203081303
Lab Sample ID: 20308140717
Lab File ID: 2030821/S5663
Date Collected: 08/13/03 Time: 1830
Date Received: 06/14/03
Date Analyzed: 08/21/03 Time: 1334
Dilution Factor: 1 Analyst: RSP
Prep Method:
Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	5.0	U	5.0	R
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	17		1.0	
75-15-0	Carbon disulfide	1.0	U	1.0	
56-23-5	Carbon tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
75-09-2	Methylene chloride	0.96	J	2.0	U
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene	1.0	U	1.0	

10/7/03 AV

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKGWFB1007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308140717

Lab File ID: 2030821/S5663

Date Collected: 08/13/03 Time: 1830

Date Received: 08/14/03

Date Analyzed: 08/21/03 Time: 1334

Dilution Factor: 1 Analyst: RSP

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

E

CLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGWFB1007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: Water Lab Sample ID: 20308140717

Sample wt/vol: Units: Lab File ID: 2030821/S5663

Level: (low/med) Date Collected: 08/13/03 Time: 1830

% Moisture: not dec. Date Received: 08/14/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 08/21/03 Time: 1334

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	7446-09-5	Sulfur dioxide	3.712	35	

U

10/8/03 MA

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKGWTB1007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308140718

Lab File ID: 2030820/S5646

Date Collected: 08/13/03 Time: 0000

Date Received: 08/14/03

Date Analyzed: 08/20/03 Time: 1840

Dilution Factor: 1 Analyst: RSP

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0
75-34-3	1,1-Dichloroethane	1.0	U	1.0
75-35-4	1,1-Dichloroethene	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
540-59-0	1,2-Dichloroethene	1.0	U	1.0
78-87-5	1,2-Dichloropropane	1.0	U	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
78-93-3	2-Butanone	5.0	U	5.0
591-78-6	2-Hexanone	5.0	U	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0
67-64-1	Acetone	5.0	U	5.0
71-43-2	Benzene	1.0	U	1.0
75-27-4	Bromodichloromethane	1.0	U	1.0
75-25-2	Bromoform	1.0	U	1.0
74-83-9	Bromomethane	8.3		1.0
75-15-0	Carbon disulfide	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
75-00-3	Chloroethane	1.0	U	1.0
67-66-3	Chloroform	1.0	U	1.0
74-87-3	Chloromethane	1.0	U	1.0
124-48-1	Dibromochloromethane	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0
100-41-4	Ethylbenzene	1.0	U	1.0
75-09-2	Methylene chloride	1.2	J	2.0
100-42-5	Styrene	1.0	U	1.0
127-18-4	Tetrachloroethene	1.0	U	1.0

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SKGATB1007
Lab Code:	LA024	Case No.:	
Matrix:	Water	Contract:	
Sample wt/vol:	25 Units: mL	SAS No.:	SDG No.: 203081303
Level: (low/med)		Lab Sample ID:	20308140718
% Moisture: not dec.		Lab File ID:	2030820/S5646
GC Column:	DB-624-30M ID: .53 (mm)	Date Collected:	08/13/03 Time: 0000
Instrument ID:	MSV0	Date Received:	08/14/03
Concentrated Extract Volume:	(µL)	Date Analyzed:	08/20/03 Time: 1840
Soil Aliquot Volume:	(µL)	Dilution Factor:	1 Analyst: RSP
		Prep Method:	
		Analytical Method:	OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKGWTB1007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: Water Lab Sample ID: 20308140718

Sample wt/vol: Units: Lab File ID: 2030820/S5646

Level: (low/med) Date Collected: 08/13/03 Time: 0000

% Moisture: not dec. Date Received: 08/14/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 08/20/03 Time: 1840

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.	7446-09-5	Sulfur dioxide	4.219	.396	

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

SOW No.:

EPA Sample No.	Lab Sample ID.
SKGW641007	20308130301
SKGW591007	20308130302
SKGW62A1007	20308130303
SKGW641007 (DISS)	20308130307
SKGW591007 (DISS)	20308130308
SKGW62A1007 (DISS)	20308130309
SKGW07R1007	20308140701
SKGW06R1007	20308140702
SKGW581007	20308140710
SKGW58D1007	20308140711
SKGW611007	20308140712
SKGW611007MS	20308140713
SKGW611007DUP	20308140715
SKGW631007	20308140716
SKGWFB1007	20308140717

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: Scott Bailey Name: Scott Bailey

Date: 09/18/03 Title: Operations Manager

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

SOW No.:

EPA Sample No.	Lab Sample ID.
SKGW07R1007(DISS)	20308140719
SKGW06R1007(DISS)	20308140720
SKGW581007(DISS)	20308140727
SKGW58D1007(DISS)	20308140728
SKGW611007(DISS)	20308140729
SKGW611007MS(DISS)	20308140730
SKGW611007DUP(DISS)	20308140731
SKGW631007(DISS)	20308140732
SKGWFB1007(DISS)	20308140733

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: Scott Bailey Name: Scott Bailey

Date:: 09/18/03 Title: Operations Manager

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW641007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No. SDG No.: 203081303

Matrix (soil / water) Water Lab Sample ID: 20308130301

Level (low / med) Date Received: 08/13/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	6.2	B		P	
7440-39-3	Barium	56.3	B		P	
7440-41-7	Beryllium	0.2	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	22.4		*	P	J
7440-50-8	Copper	16.0	B		P	
7439-89-6	Iron	24300		*	P	J
7439-92-1	Lead	9.7		N,*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	33.9	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U	N	P	UJ
7440-66-6	Zinc	73.6		*	P	J
57-12-5	Cyanide	3.0	U		AS	

10/14/03 MC

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

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

Comments:

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

EPA SAMPLE NO.

SKGW591007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: (soil / water) Water Lab Sample ID: 20308130302

Level: (low / med) Date Received: 08/13/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	3.6	B		P	
7440-39-3	Barium	62.1	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	8.3	B	*	P	J
7440-50-8	Copper	6.0	B		P	
7439-89-6	Iron	2240		*	P	J
7439-92-1	Lead	5.7		N,*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	6.5	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U	N	P	UJ
7440-66-6	Zinc	21.2		*	P	J
57-12-5	Cyanide	3.0	U		AS	

10/14/03

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.

SKGW62A1007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No.: SDG No.: 203081303

Matrix (soil / water) Water Lab Sample ID: 20308130303

Level (low / med) Date Received: 08/13/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	18.3			P	
7440-39-3	Barium	800			P	
7440-41-7	Beryllium	1.1	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	68.5		*	P	J
7440-50-8	Copper	68.0			P	
7439-89-6	Iron	65400		*	P	J
7439-92-1	Lead	65.2		N,*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	75.7			P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U	N	P	UJ
7440-66-6	Zinc	234		*	P	J
57-12-5	Cyanide	3.0	U		AS	

10/14/03

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

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

Comments:

FORM I - IN

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U.S. EPA - CLP
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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW641007 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: (soil / water) Water Lab Sample ID: 20308130307

Level: (low / med) Date Received: 08/13/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	4.2	B		P
7440-38-2	Arsenic	2.9	U		P
7440-39-3	Barium	31.5	B	E	P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	3.8	B		P
7440-50-8	Copper	4.5	B		P
7439-89-6	Iron	14.1	U	*	P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	9.4	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	16.1	B		P

J

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

[illegible] - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW591007 (DISS)

Lab Name: GCAL Contract: _____

Lab Code: LA024 Case No: _____ SAS No.: _____ SDG No.: 203081303

Matrix: (soil / water) Water Lab Sample ID: 20308130308

Level: (low / med) _____ Date Received: 08/13/03

% Solids: _____

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	7.2	B		P
7440-38-2	Arsenic	2.9	U		P
7440-39-3	Barium	38 *	B	E	P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	3.3	B		P
7440-50-8	Copper	3.0	B		P
7439-89-6	Iron	14.1	U	*	P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	3.0	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	18.4	B		P

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10/14/03 [illegible]

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.

SKGW62A1007 (DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: (soil / water) Water Lab Sample ID: 20308130309

Level: (low / med) Date Received: 08/13/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	2.9	U		P
7440-39-3	Barium	145	B	E	P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	3.5	B		P
7440-50-8	Copper	2.4	B		P
7439-89-6	Iron	14.1	U		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.7	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	11.0	B		P

J

10/14/03 mr

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW07R1007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203061303

Matrix (soil / water) Water Lab Sample ID 20308140701

Level (low / med) Date Received 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	14.6			P	
7440-39-3	Barium	699			P	
7440-41-7	Beryllium	0.3	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	21.5		*	P	J
7440-50-8	Copper	30.4			P	
7439-89-6	Iron	29000		*	P	J
7439-92-1	Lead	16.8		N,*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	25.3	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U	N	P	UJ
7440-66-6	Zinc	90.3		*	P	J
57-12-5	Cyanide	3.0	U		AS	

10/14/03 MR

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

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

Comments:

FORM I - IN

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW06R1007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: (soil / water) Water Lab Sample ID: 20308140702

Level: (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	13.2			P	
7440-39-3	Barium	493			P	
7440-41-7	Beryllium	0.3	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	21.4		*	P	J
7440-50-8	Copper	32.1			P	
7439-89-6	Iron	27200		*	P	J
7439-92-1	Lead	26.0		N,*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	26.0	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U	N	P	UJ
7440-66-6	Zinc	87.8		*	P	J
57-12-5	Cyanide	3.0	U		AS	

10/29/03 MR

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

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

Comments:

FORM I - IN

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW581007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix (soil / water): Water Lab Sample ID: 20308140710

Level (low / med): Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	20.6			P	
7440-39-3	Barium	391			P	
7440-41-7	Beryllium	0.7	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	42.6		*	P	J
7440-50-8	Copper	43.2			P	
7439-89-6	Iron	40800		*	P	J
7439-92-1	Lead	26.8		N,*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	50.6			P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U	N	P	UJ
7440-66-6	Zinc	137		*	P	J
57-12-5	Cyanide	3.0	U		AS	

10/17/03 MSL

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

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

Comments:

FORM I - IN

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW58D1007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: (soil / water) Water Lab Sample ID: 20308140711

Level: (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	23.3			P	
7440-39-3	Barium	451			P	
7440-41-7	Beryllium	0.9	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	55.7		*	P	J
7440-50-8	Copper	51.5			P	
7439-89-6	Iron	57100		*	P	J
7439-92-1	Lead	40.7		N,*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	61.1			P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U	N	P	UJ
7440-66-6	Zinc	187		*	P	J
57-12-5	Cyanide	3.0	U		AS	

10/14/03 MN

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

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

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW611007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix (soil / water) Water Lab Sample ID: 20308140712

Level: (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	17.9			P	
7440-39-3	Barium	202			P	
7440-41-7	Beryllium	0.2	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	23.2		*	P	J
7440-50-8	Copper	28.2			P	
7439-89-6	Iron	33400		*	P	J
7439-92-1	Lead	19.7		N,*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	29.5	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U	N	P	UJ
7440-66-6	Zinc	96.7		*	P	J
57-12-5	Cyanide	3.0	U		AS	

10/17/03 MCC

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

Color After: LT BROWN Clarity After: CLEAR Artifacts:

Comments:

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

EPA SAMPLE NO.

SKGW611007DUP

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: (soil / water) Water Lab Sample ID: 20308140715

Level: (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	22.0			P	
7440-39-3	Barium	353			P	
7440-41-7	Beryllium	0.8	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	38.6		*	P	J
7440-50-8	Copper	51.7			P	
7439-89-6	Iron	55000		*	P	J
7439-92-1	Lead	34.8		N,*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	51.6			P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U	N	P	UJ
7440-66-6	Zinc	161		*	P	J
57-12-5	Cyanide	3.0	U		AS	

1-14/03
MN

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

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

Comments:

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW631007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No. SDG No.: 203081303

Matrix (soil / water) Water Lab Sample ID 20308140716

Level: (low / med) Date Received 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	12.6			P	
7440-39-3	Barium	217			P	
7440-41-7	Beryllium	0.9	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	36.1		*	P	J
7440-50-8	Copper	33.0			P	
7439-89-6	Iron	53900		*	P	J
7439-92-1	Lead	36.0		N,*	P	J
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	59.6			P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U	N	P	UJ
7440-66-6	Zinc	182		*	P	J
57-12-5	Cyanide	3.0	U		AS	

10/14/03 MR

Color Before: LT.BROWN Clarity Before CLEAR Texture:

Color After: LT.BROWN Clarity After CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGWFB1007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: (soil / water) Water Lab Sample ID: 20308140717

Level: (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	0.3	U		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	0.8	U	*	P	UJ
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	20.3	B	*	P	J
7439-92-1	Lead	1.5	U	N,*	P	UJ
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	0.7	B		P	
7782-49-2	Selenium	4.4	U	N	P	R
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U	N	P	UJ
7440-66-6	Zinc	11.4	B	*	P	J
57-12-5	Cyanide	3.0	U		AS	

10/14/03

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.

SKGW07R1007(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix (soil / water) Water Lab Sample ID: 20308140719

Level (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	152	B	E	P	J
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	2.9	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	301		*	P	J
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.4	B		P	
7782-49-2	Selenium	4.4	U	N	P	
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	10.9	B		P	

10/14/03 [illegible]

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.

SKGW06R1007(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: (soil / water) Water Lab Sample ID: 20308140720

Level: (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	2.9	U		P
7440-39-3	Barium	309		E	P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	2.6	B		P
7440-50-8	Copper	1.3	B		P
7439-89-6	Iron	14.1	U		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.7	B		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	13.5	B		P

J

10/4/03
MN

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.

SKGW581007(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix (soil / water) Water Lab Sample ID: 203081403727

Level: (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	3.1	B		P	
7440-39-3	Barium	162	B	E	P	I
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	2.5	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	488		*	P	I
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.2	B		P	
7782-49-2	Selenium	4.4	U	N	P	
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	7.7	B		P	

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW58D1007(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: (soil / water) Water Lab Sample ID: 20308140728

Level: (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	170	B	E	P	J
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	5.0	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	429			P	J
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.3	B		P	
7782-49-2	Selenium	4.4	U	N	P	
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	14.0	B		P	

10/14/03 MEL

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.

SKGW61:007(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No.: SDG No.: 203081303

Matrix (soil / water) Water Lab Sample ID 20308140729

Level: (low / med) Date Received 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	4.7	B		P	
7440-39-3	Barium	77.7	B	E	P	J
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	3.8	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	6100		*	P	J
7439-92-1	Lead	1.5	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	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	13.1	B		P	

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Color Before: COLORLESS Clarity Before CLEAR Texture:

Color After: COLORLESS Clarity After CLEAR Artifacts:

Comments:

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1
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKGW611007DUP(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: (soil / water) Water Lab Sample ID: 20308140731

Level: (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	6.8	B		P	
7440-39-3	Barium	81.6	B	E	P	J
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	2.2	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	3270		*	P	J
7439-92-1	Lead	1.5	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	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	9.7	B		P	

10/14/03 MS

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.

SKGW631007(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No. SDG No.: 203081303

Matrix (soil / water) Water Lab Sample ID 20308140732

Level (low / med) Date Received 08/14/03

% 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	2.9	U		P	
7440-39-3	Barium	58.8	B	E	P	J
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	3.2	B		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	1890		*	P	J
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	8.3	B		P	
7782-49-2	Selenium	4.4	U	N	P	
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U		P	
7440-66-6	Zinc	10.8	B		P	

10/14/03

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.

SKGWFB1007(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081303

Matrix: (soil / water) Water Lab Sample ID: 20308140733

Level: (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	2.9	U		P
7440-39-3	Barium	0.3	U	E	P
7440-41-7	Beryllium	0.1	B		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	0.9	B		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	14.1	U	*	P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.7	U		P
7782-49-2	Selenium	4.4	U	N	P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.7	B		P
7440-66-6	Zinc	0.6	U		P

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 (Client Name) | 4342 (Client #) | 203081303 (Workorder #) | 8.7.03 (Due Date)

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

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

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill - 3 Qtr. 2003
Sampled By: Pat Higgins & Derek Copas

Analytical Requests & Method

Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Semi volatiles	PCBs	Pesticides	Total Metals	Dissolved Metals	Cyanide
W	8/12/03	1359		X	SkGW60 1007 *	Various	4	X	X					
W	8/12/03	1530		X	SkGW64 1007	Various	10	X	X	X	X	X	X	X
W	8/12/03	1550		X	SkGW65 1007	P.H. ~~Various~~ HCL	3	X						
W	8/12/03	1333		X	SkGW59 1007	HCL	3	X						
W	8/12/03	1407		X	SkGW62A 1007	HCL	3	X						
W	8/12/03				SkGW TB 1007	HCL	3	X						

* only 1 semi volatile bottle submitted for SkGW60 1007

Lab use only:
Custody Seal
used [X] yes [ ] no
in tact [X] yes [ ] no
Temperature °C 6

Remarks: (DI) P 13
See Tables 7 (TCL) and 8 (TAL) of The Final Version of The O&M LTP Plan for analytes

STANDARD TURNAROUND

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	FED EX	8/12/03	1800
Fed-Ex 8425 8400 1940	Dana Hayden	8/13-03	0935

Note: FED EX Airbill: 8425 8400 1940

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

000763

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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	203081303	8-27-03

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

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

P.O. Number: S4280.01
Project Name/Number: Skinner Landfill - 3 Qtr. 2003
Sampled By: Pat Higgins & Derek Copas

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Semi-Volatiles	PCBs	Pesticides	total Metals	Diss. Metals	Cyanide	Remarks:	Lab ID
W	8/12/03	~~1:33~~ 1333 P.H.		X	SKGW59 1007	Various	7	X	X	X	X	X	X	FED EX (Diss) -08	8113 -02
W	8/12/03	~~2:07~~ 1407 P.H.		X	SKGW62A 1007	Various	7	X	X	X	X	X	X	Airbill #: -09	-03
														8425 8400 1940	

-See Tables 7 and 8 of The O&M - LTPP - Final version for TCL & TAL lists

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	FED EX	8/12/03	1800
Fed. Ex. 8425 8400 1940	[signature]	8-13-03	0935

Note:

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

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

We cannot accept verbal changes. Please fax written changes to (225) 7...

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

SCAL-06 11/...

000764

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7979 GSRI Avenue
Baton Rouge, LA
70820-7402

(225) 769-4900 • Fax (225) 767-5717

CHAIN OF CUSTODY RECORD

203081202

Lab use only: Earth Tech (Client Name) | 4342 (Client #) | ~~203081407~~ (Group #) | 8-28-03 (Due)

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

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

P.O. Number: 51280.01
Project Name/Number: Stevenson Landfill 3rd Qtr 2003
Sampled By: Pat Higgins & Derek Copas

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Semi volatiles	volatiles	PCP	Pesticides	total metals	dissolved metals	cyanide	(DISS)	Remarks:	Lab ID
W	8/13	1022		X	SLGW07R 1007	Various	7	X		X	X	X	X	X	.19	Refer to table 7 (TGL) and table 8 (TAL) of final O&M plan for list of analytes	8 14
W	8/13	952		X	SLGW06R 1007	various	7	X		X	X	X	X	X	.20		-0.1

Standard TAT

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Derek Copas	Fed Ex	8/13/03	2100
Fed Ex	Carla Frazier	8-14-03	0920

Note: Fed Ex Airbill 5425 8400 1700

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

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Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

203081303

Lab use only			
Earth Tech	4342	~~203081407~~	8-28-03
Client Name	Client #	Workorder #	Due Date

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

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

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill 3rd QTR 2003
Sampled By: Pat Higgins & Derek Copas

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	Semi Volatiles	Volatiles	PCBs	Pesticides	Total metals	dissolved metals	Cyanide			(DISS)	Remarks:	Lab ID 8/14
W	8/13	1535		X	SKGW58 1007	Various	7	X		X	X	X	X	X			-27	Refer to table 7	-10
W	8/13	1415		X	SKGW58D 1007	Various	7	X		X	X	X	X	X			-28	(TCL) and	-11
																		table 8 (TAL)	
																		of the final	
																		version of the	
																		O&M plan for	
																		analytes	
																		Standard TAT	

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Derek Copas	Fed ex	8/13/03	2100
Fed-EX	David Hayden	8-14-03	0920

Note: Sent Via Fed Ex
Airbill # 8425 8400 1700

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

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

We cannot accept verbal changes. Please fax written changes

WHITE: CLIENT FINAL REPORT — CANARY LABORATORY — PINK CLIENT

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7979 GSRI Avenue
Baton Rouge, LA
70820-7402

(225) 769-4900 • Fax (225) 767-5717

CHAIN OF CUSTODY RECORD

203081303

Lab use only	Client Name	Client #	Group #	Due Date
	Earth Tech	4342	~~203081407~~	8-28-03

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

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

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill 3rd Qtr. 2003
Sampled By: Pat Higgins & Derek Capas

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Semi Volatiles	Volatiles	PCBs	Pesticides	Total Metals	Dissolved metals	Cyanide	(Diss)	Remarks:	Lab ID
W	8/13	1710		X	SLGW61MS1007	Various	7	X		X	X	X	X	X	-30	Refer to table 7 (TBL) and table 8 (TAL) of the final O&M plan for list of analytes	8-11
W	8/13	1650		X	SLGW61 1007	Various	7	X		X	X	X	X	X	-21		-12

Standard TAT

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Derek Capas	Fed Ex	8/13/03	2400
Fed. Ex.	Dana Hayden	8-14-03	0920

Note: Fed Ex Airbill 5425 8400 1700

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CHAIN OF CUSTODY RECORD

203081303

Lab use only			
Earth Tech	4342	~~203081407~~	8-28-03
Client Name	Client #	Workorder #	Due Date

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

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

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill 3rd Qtr 2003
Sampled By: Pat Higgins & Derek Copas

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	Semi volatiles	volatiles	PCBs	Pesticides	total metals	dissolved metals	Cyanide			(Diss)	Remarks:	Lab ID 8114
W	8/13	1755		X	SKGW63 1007	various	7	X		X	X	X	X	X			-32	Refer to table 7	-16
W	8/13	1850		X	SKGW FB 1007	various	7	X		X	X	X	X	X			-33	(TCL) and	-17
																		table 8 (TAL)	
																		of the final	
																		version of the	
																		O&M plan for	
																		analytes	

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Derek J. Copas	Fed Ex	8/13/03	2100
Fed. Ex.	Laura Haydel	8-14-03	0920

Note: Fed Ex Air bill 8425 8400 1700

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

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

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

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

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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

(1 of 2) 203081303

Lab use only: Earth Tech — Client Name | ~~4342~~ — Client # | ~~203081407~~ — Workorder # | 8 28-03 — Due Date

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

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

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill - 3 Qtr. 2003
Sampled By: Pat Higgins / Derek Copas

Analytical Requests & Method

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

Matrix	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Semi-volatiles	PCBs	Pesticides	total metals	Dissolved metals	Cyanide		Lab ID
W	8/13	952 ~~925~~	P.H.	X	Sk GW06R 1007	ice	3	X								8 14
		1004 ~~1002~~	P.H.		SkGW07R 1007											-02
		1052			SkSW51 1007											-01
		1104			SkSW51MS 1007											-03
		1120			SkSW51MSD 1007											-04
		1250			SkSW52 1007	*										-05
		1325			SkSW53 1007											-08
		1355			SkSWFB 1007											-09
		1535			SkGW58 1007											-07
		1615			SkGW58FD 1007											-10
		1650			SkGW61 1007											-11
		1710			SkGW61MS 1007											-12
		1732			SkGW61MSD 1007		10		X	X	X	X	X	X	(Diss) -31	-13
		1755			SkGW63 1007		3									-14, 15
																-16

Remarks: Refer to Table 7 (TCL) and Table 8 (TAL) of the final version of the O&M LTP Plan for analyte lists

Standard Turnaround

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	Fed Ex	8/13/03	2:00
Fed. Ex.	Dana Hayde	8-14-03	0920

Note: *Samples are in workorder 203081407
Fed Ex Airbill #: 8425 8400 1700

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

000269

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

(2 of 2) 203081302

Lab use only	Client Name	Client #	Workorder #	Due Date
	Earth Tech	4342	~~203081407~~	0-28-03

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

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

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

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill, 3 Qtr. 2003
Sampled By: Pat Higgins ; Derek Capas

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Semi-volatiles	Volatiles	PCBs	Pesticides	total metals	Dissolved metals	Cyanide	Lab ID
W	8/13	1830		X	SK GW FB 1007	ice	3		X						8/14
V	8/13			X	SK GW TB 1007	ice	X		X						-17
															-18

Remarks: Refer to Table 7 (TCL) and Table 8 (TAL) of the final version of the O&M LTP Plan for analytes

Standard Turnaround

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	Fed Ex	8/13/03	2100
Fed. Ex	Laura Hayde	8/24/03	0920

Note: Sent via Fed Ex ; Air bill # 8425 8400 1700

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

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

We cannot accept verbal changes. Please fax written changes ...

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

000770

SEMI-VOLATILE 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: DB-5MS-30M ID: .25 (mm)

Concentrated Sample Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 2 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW641C[illegible]

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20306130301 Lab File ID: 2030820/T

Date Collected: 08/12/03 Time: 1530

Date Received: 08/13/03

Date Analyzed: 08/20/03 Time: 1700

Dilution Factor: 1 Analyst: DLB

Prep Method:

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	10.0
91-58-7	2-Chloronaphthalene	10.0	U	10.0
95-57-8	2-Chlorophenol	10.0	U	10.0
91-57-6	2-Methylnaphthalene	10.0	U	10.0
88-74-4	2-Nitroaniline	25.0	U	25.0
88-75-5	2-Nitrophenol	10.0	U	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	10.0
99-09-2	3-Nitroaniline	25.0	U	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	10.0
106-47-8	4-Chloroaniline	10.0	U	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	10.0
83-32-9	Acenaphthene	10.0	U	10.0
208-96-8	Acenaphthylene	10.0	U	10.0
120-12-7	Anthracene	10.0	U	10.0
56-55-3	Benzo(a)anthracene	10.0	U	10.0
50-32-8	Benzo(a)pyrene	10.0	U	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0 / 1.06	J	10.0

U

10/8/03
MSR

000272

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: SKGW641007
Lab Code: LA024 Case No.:
Contract:
Matrix: Water
SAS No.: SDG No.: 203081303
Sample wt/vol: 1000 Units: mL
Lab Sample ID: 20308130301 Lab File ID: 2030820/T
Level: (low/med)
Date Collected: 08/12/03 Time: 1530
% Moisture: decanted: (Y/N)
Date Received: 08/13/03
GC Column: DB-5MS-30M ID: .25 (mm)
Date Analyzed: 08/20/03 Time: 1700
Concentrated Sample Volume: 1000 (µL)
Dilution Factor: 1 Analyst: DLB
Soil Aliquot Volume: (µL)
Prep Method:
Injection Volume: 2 (µL)
Analytical Method: OLMO 4.2
GPC Cleanup: (Y/N) N pH:
Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
101-55-3	4-Bromophenyl-phenylether	10.0	U	10.0
85-68-7	Butylbenzylphthalate	10.0	U	10.0
86-74-8	Carbazole	10.0	U	10.0
218-01-9	Chrysene	10.0	U	10.0
84-74-2	Di-n-butylphthalate	~~1.48~~ 10.0	J	10.0
117-84-0	Di-n-octylphthalate	10.0	U	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	10.0
132-64-9	Dibenzofuran	10.0	U	10.0
84-66-2	Diethylphthalate	10.0	U	10.0
131-11-3	Dimethyl-phthalate	10.0	U	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	10.0
206-44-0	Fluoranthene	10.0	U	10.0
86-73-7	Fluorene	10.0	U	10.0
118-74-1	Hexachlorobenzene	10.0	U	10.0
87-68-3	Hexachlorobutadiene	10.0	U	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	10.0
67-72-1	Hexachloroethane	10.0	U	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	10.0
78-59-1	Isophorone	10.0	U	10.0
91-20-3	Naphthalene	10.0	U	10.0
100-01-6	4-Nitroaniline	25.0	U	25.0
98-95-3	Nitrobenzene	10.0	U	10.0
100-02-7	4-Nitrophenol	25.0	U	25.0
87-86-5	Pentachlorophenol	25.0	U	25.0
85-01-8	Phenanthrene	10.0	U	10.0
108-95-2	Phenol	10.0	U	10.0
129-00-0	Pyrene	10.0	U	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	10.0
86-30-6	N-Nitrosodiphenylamine	10.0	U	10.0
95-48-7	o-Cresol	10.0	U	10.0

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10/8/03 MR

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 203081303
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW541007
Contract:
Lab File ID: 20308120/T4729
Lab Sample ID: 20308130301
Date Collected: 08/12/03 Time: 1530
Date Received: 08/13/03
Date Extracted:
Date Analyzed: 08/20/03 Time: 1700
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q	
1.	301-02-0	9-Octadecenamide, (Z)-	13.028	27.5		U

10/8/03
MR

FORM I SV-TIC

1B

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

Concentrated Sample Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 2 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW591007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308130302 Lab File ID: 2030820/T

Date Collected: 08/12/03 Time: 1333

Date Received: 08/13/03

Date Analyzed: 08/20/03 Time: 1725

Dilution Factor: 1 Analyst: DLB

Prep Method:

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	10.0
91-58-7	2-Chloronaphthalene	10.0	U	10.0
95-57-8	2-Chlorophenol	10.0	U	10.0
91-57-6	2-Methylnaphthalene	10.0	U	10.0
88-74-4	2-Nitroaniline	25.0	U	25.0
88-75-5	2-Nitrophenol	10.0	U	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	10.0
99-09-2	3-Nitroaniline	25.0	U	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	10.0
106-47-8	4-Chloroaniline	10.0	U	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	10.0
83-32-9	Acenaphthene	10.0	U	10.0
208-96-8	Acenaphthylene	10.0	U	10.0
120-12-7	Anthracene	10.0	U	10.0
56-55-3	Benzo(a)anthracene	10.0	U	10.0
50-32-8	Benzo(a)pyrene	10.0	U	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0 ~~0.768~~	J	10.0

u

10/8/03

FORM I SV-1

1B

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SrGM591007
Lab Code:	LA024 Case No:	Contract:	
Matrix:	Water	SAS No.:	SDG No.: 203081303
Sample wt/vol:	1000 Units: mL	Lab Sample ID:	20308130302 Lab File ID: 2030820/T
Level: (low/med)		Date Collected:	08/12/03 Time: 1333
% Moisture:	decanted: (Y/N)	Date Received:	08/13/03
GC Column:	DB-5MS-30M ID: .25 (mm)	Date Analyzed:	08/20/03 Time: 1725
Concentrated Sample Volume:	1000 (µL)	Dilution Factor:	1 Analyst: DLB
Soil Aliquot Volume:	(µL)	Prep Method:	
Injection Volume:	2 (µL)	Analytical Method:	OLMO 4.2
GPC Cleanup: (Y/N)	N pH:	Instrument ID:	MSSV3

CONCENTRATION UNITS: *ug/L*

CAS NO.	COMPOUND	RESULT	Q	RL
101-55-3	4-Bromophenyl-phenylether	10.0	U	10.0
85-68-7	Butylbenzylphthalate	10.0	U	10.0
86-74-8	Carbazole	10.0	U	10.0
218-01-9	Chrysene	10.0	U	10.0
84-74-2	Di-n-butylphthalate	10.0 ~~1.68~~	J	10.0
117-84-0	Di-n-octylphthalate	10.0	U	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	10.0
132-64-9	Dibenzofuran	10.0	U	10.0
84-66-2	Diethylphthalate	10.0	U	10.0
131-11-3	Dimethyl-phthalate	10.0	U	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	10.0
206-44-0	Fluoranthene	10.0	U	10.0
86-73-7	Fluorene	10.0	U	10.0
118-74-1	Hexachlorobenzene	10.0	U	10.0
87-68-3	Hexachlorobutadiene	10.0	U	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	10.0
67-72-1	Hexachloroethane	10.0	U	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	10.0
78-59-1	Isophorone	10.0	U	10.0
91-20-3	Naphthalene	10.0	U	10.0
100-01-6	4-Nitroaniline	25.0	U	25.0
98-95-3	Nitrobenzene	10.0	U	10.0
100-02-7	4-Nitrophenol	25.0	U	25.0
87-86-5	Pentachlorophenol	25.0	U	25.0
85-01-8	Phenanthrene	10.0	U	10.0
108-95-2	Phenol	10.0	U	10.0
129-00-0	Pyrene	10.0	U	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	10.0
86-30-6	N-Nitrosodiphenylamine	10.0	U	10.0
95-48-7	o-Cresol	10.0	U	10.0

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10/8/03 MM

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 203081303
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW591007
Contract:
Lab File ID: 2030820/T4730
Lab Sample ID: 20308130302
Date Collected: 08/12/03 Time: 1333
Date Received: 08/13/03
Date Extracted:
Date Analyzed: 08/20/03 Time: 1725
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q	
1.	301-02-0	9-Octadecenamide, (Z)-	13.027	28.1		U

10/8/03
M. Fu

1B

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

Concentrated Sample Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 2 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW62A1007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308130303 Lab File ID: 2030820/T

Date Collected: 08/12/03 Time: 1407

Date Received: 08/13/03

Date Analyzed: 08/20/03 Time: 1750

Dilution Factor: 1 Analyst: DLB

Prep Method

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	10.0
91-58-7	2-Chloronaphthalene	10.0	U	10.0
95-57-8	2-Chlorophenol	10.0	U	10.0
91-57-6	2-Methylnaphthalene	10.0	U	10.0
88-74-4	2-Nitroaniline	25.0	U	25.0
88-75-5	2-Nitrophenol	10.0	U	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	10.0
99-09-2	3-Nitroaniline	25.0	U	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	10.0
106-47-8	4-Chloroaniline	10.0	U	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	10.0
83-32-9	Acenaphthene	10.0	U	10.0
208-96-8	Acenaphthylene	10.0	U	10.0
120-12-7	Anthracene	10.0	U	10.0
56-55-3	Benzo(a)anthracene	10.0	U	10.0
50-32-8	Benzo(a)pyrene	10.0	U	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0 ~~0.852~~	J	10.0

U

10/8/03 min

FORM SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: SKGW62A1007
Lab Code: LA024 Case No.:
Contract:
Matrix: Water
SAS No.: SDG No.: 203081303
Sample wt/vol: 1000 Units: mL
Lab Sample ID: 20308130303 Lab File ID: 2030820/T
Level: (low/med)
Date Collected: 08/12/03 Time: 1407
% Moisture: decanted: (Y/N)
Date Received: 08/13/03
GC Column: DB-5MS-30M ID: .25 (mm)
Date Analyzed: 08/20/03 Time: 1750
Concentrated Sample Volume: 1000 (µL)
Dilution Factor: 1 Analyst: DLB
Soil Aliquot Volume: (µL)
Prep Method:
Injection Volume: 2 (µL)
Analytical Method: OLMO 4.2
GPC Cleanup: (Y/N) N pH:
Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
101-55-3	4-Bromophenyl-phenylether	10.0	U	10.0
85-68-7	Butylbenzylphthalate	10.0	U	10.0
86-74-8	Carbazole	10.0	U	10.0
218-01-9	Chrysene	10.0	U	10.0
84-74-2	Di-n-butylphthalate	10.0 ~~0.147~~	J	10.0
117-84-0	Di-n-octylphthalate	10.0	U	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	10.0
132-64-9	Dibenzofuran	10.0	U	10.0
84-66-2	Diethylphthalate	10.0	U	10.0
131-11-3	Dimethyl-phthalate	10.0	U	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	10.0
206-44-0	Fluoranthene	10.0	U	10.0
86-73-7	Fluorene	10.0	U	10.0
118-74-1	Hexachlorobenzene	10.0	U	10.0
87-68-3	Hexachlorobutadiene	10.0	U	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	10.0
67-72-1	Hexachloroethane	10.0	U	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	10.0
78-59-1	Isophorone	10.0	U	10.0
91-20-3	Naphthalene	10.0	U	10.0
100-01-6	4-Nitroaniline	25.0	U	25.0
98-95-3	Nitrobenzene	10.0	U	10.0
100-02-7	4-Nitrophenol	25.0	U	25.0
87-86-5	Pentachlorophenol	25.0	U	25.0
85-01-8	Phenanthrene	10.0	U	10.0
108-95-2	Phenol	10.0	U	10.0
129-00-0	Pyrene	10.0	U	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	10.0
86-30-6	N-Nitrosodiphenylamine	10.0	U	10.0
95-48-7	o-Cresol	10.0	U	10.0

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SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 203081303
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW62A1007
Contract
Lab File ID: 2030620/T4731
Lab Sample ID: 2030813C303
Date Collected: 08/12/03 Time: 1407
Date Received: 08/13/03
Date Extracted:
Date Analyzed: 08/20/03 Time: 1750
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q	
1.	301-02-0	9-Octadecenamide, (Z)-	13.027	27.9		U

10/8/03
MA

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW601007

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

Matrix: Water | SAS No.: | SDG No.: 203081303

Sample wt/vol: 670 | Units: mL | Lab Sample ID: 20308130304 | Lab File ID: 2030820/T

Level: (low/med) | Date Collected: 08/12/03 | Time: 1359

% Moisture: | decanted: (Y/N) | Date Received: 08/13/03

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 08/20/03 | Time: 1815

Concentrated Sample Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: DLB

Soil Aliquot Volume: (µL) | Prep Method:

Injection Volume: 2 (µL) | Analytical Method: OLMO 4.2

GPC Cleanup: (Y/N) N | pH: | Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
95-95-4	2,4,5-Trichlorophenol	14.9	U	14.9
88-06-2	2,4,6-Trichlorophenol	14.9	U	14.9
120-83-2	2,4-Dichlorophenol	14.9	U	14.9
51-28-5	2,4-Dinitrophenol	37.3	U	37.3
121-14-2	2,4-Dinitrotoluene	14.9	U	14.9
606-20-2	2,6-Dinitrotoluene	14.9	U	14.9
91-58-7	2-Chloronaphthalene	14.9	U	14.9
95-57-8	2-Chlorophenol	14.9	U	14.9
91-57-6	2-Methylnaphthalene	14.9	U	14.9
88-74-4	2-Nitroaniline	37.3	U	37.3
88-75-5	2-Nitrophenol	14.9	U	14.9
91-94-1	3,3'-Dichlorobenzidine	14.9	U	14.9
99-09-2	3-Nitroaniline	37.3	U	37.3
534-52-1	2-Methyl-4,6-dinitrophenol	37.3	U	37.3
59-50-7	4-Chloro-3-methylphenol	14.9	U	14.9
106-47-8	4-Chloroaniline	14.9	U	14.9
7005-72-3	4-Chlorophenyl-phenylether	14.9	U	14.9
106-44-5	4-Methylphenol (p-Cresol)	14.9	U	14.9
83-32-9	Acenaphthene	14.9	U	14.9
208-96-8	Acenaphthylene	14.9	U	14.9
120-12-7	Anthracene	14.9	U	14.9
56-55-3	Benzo(a)anthracene	14.9	U	14.9
50-32-8	Benzo(a)pyrene	14.9	U	14.9
205-99-2	Benzo(b)fluoranthene	14.9	U	14.9
191-24-2	Benzo(g,h,i)perylene	14.9	U	14.9
207-08-9	Benzo(k)fluoranthene	14.9	U	14.9
111-91-1	Bis(2-Chloroethoxy)methane	14.9	U	14.9
111-44-4	Bis(2-Chloroethyl)ether	14.9	U	14.9
108-60-1	bis(2-Chloroisopropyl)ether	14.9	U	14.9
117-81-7	bis(2-ethylhexyl)phthalate	14.9 ~~9.86~~	J	14.9

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10/8/03

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 670 Units: mL

Level: (low/med)

% Moisture: decanted: (Y/N)

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

Concentrated Sample Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 2 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW601007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308130304 Lab File ID: 2030820/T

Date Collected: 08/12/03 Time: 1359

Date Received: 08/13/03

Date Analyzed: 08/20/03 Time: 1815

Dilution Factor: 1 Analyst: DLB

Prep Method:

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
101-55-3	4-Bromophenyl-phenylether	14.9	U	14.9
85-68-7	Butylbenzylphthalate	14.9	U	14.9
86-74-8	Carbazole	14.9	U	14.9
218-01-9	Chrysene	14.9	U	14.9
84-74-2	Di-n-butylphthalate	14.9 ~~1.94~~	J	14.9
117-84-0	Di-n-octylphthalate	14.9	U	14.9
53-70-3	Dibenz(a,h)anthracene	14.9	U	14.9
132-64-9	Dibenzofuran	14.9	U	14.9
84-66-2	Diethylphthalate	14.9	U	14.9
131-11-3	Dimethyl-phthalate	14.9	U	14.9
105-67-9	2,4-Dimethylphenol	14.9	U	14.9
206-44-0	Fluoranthene	14.9	U	14.9
86-73-7	Fluorene	14.9	U	14.9
118-74-1	Hexachlorobenzene	14.9	U	14.9
87-68-3	Hexachlorobutadiene	14.9	U	14.9
77-47-4	Hexachlorocyclopentadiene	14.9	U	14.9
67-72-1	Hexachloroethane	14.9	U	14.9
193-39-5	Indeno(1,2,3-cd)pyrene	14.9	U	14.9
78-59-1	Isophorone	14.9	U	14.9
91-20-3	Naphthalene	14.9	U	14.9
100-01-6	4-Nitroaniline	37.3	U	37.3
98-95-3	Nitrobenzene	14.9	U	14.9
100-02-7	4-Nitrophenol	37.3	U	37.3
87-86-5	Pentachlorophenol	37.3	U	37.3
85-01-8	Phenanthrene	14.9	U	14.9
108-95-2	Phenol	14.9	U	14.9
129-00-0	Pyrene	14.9	U	14.9
621-64-7	N-Nitroso-di-n-propylamine	14.9	U	14.9
86-30-6	N-Nitrosodiphenylamine	14.9	U	14.9
95-48-7	o-Cresol	14.9	U	14.9

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10/8/03

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 203081303
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW601007
Contract:
Lab File ID: 2030820/T4732
Lab Sample ID: 20308130304
Date Collected: 08/12/03 Time: 1359
Date Received: 08/13/03
Date Extracted:
Date Analyzed: 08/20/03 Time: 1815
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	301-02-0	9-Octadecenamide, (Z)-	13.013	18.6	

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10/8/03
MM

FORM I SV-TIC

1B

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

Concentrated Sample Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 2 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW07R1007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308140701 Lab File ID: 2030820/T

Date Collected: 08/13/03 Time: 1022

Date Received: 08/14/03

Date Analyzed: 08/20/03 Time: 1841

Dilution Factor: 1 Analyst: DLB

Prep Method

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	10.0
91-58-7	2-Chloronaphthalene	10.0	U	10.0
95-57-8	2-Chlorophenol	10.0	U	10.0
91-57-6	2-Methylnaphthalene	10.0	U	10.0
88-74-4	2-Nitroaniline	25.0	U	25.0
88-75-5	2-Nitrophenol	10.0	U	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	10.0
99-09-2	3-Nitroaniline	25.0	U	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	10.0
106-47-8	4-Chloroaniline	10.0	U	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	10.0
83-32-9	Acenaphthene	10.0	U	10.0
208-96-8	Acenaphthylene	10.0	U	10.0
120-12-7	Anthracene	10.0	U	10.0
56-55-3	Benzo(a)anthracene	10.0	U	10.0
50-32-8	Benzo(a)pyrene	10.0	U	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0 ~~0.352~~	J	10.0

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10/8/03 MW

FORM I SV-1

000314

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: SKGW07R1007
Lab Code: LA024 Case No.:
Contract:
Matrix: Water
SAS No.: SDG No.: 203081303
Sample wt/vol: 1000 Units: mL
Lab Sample ID: 20308140701 Lab File ID: 2030820/T
Level: (low/med)
Date Collected: 08/13/03 Time: 1022
% Moisture: decanted: (Y/N)
Date Received: 08/14/03
GC Column: DB-5MS-30M ID: .25 (mm)
Date Analyzed: 08/20/03 Time: 1841
Concentrated Sample Volume: 1000 (µL)
Dilution Factor: 1 Analyst: DLB
Soil Aliquot Volume: (µL)
Prep Method:
Injection Volume: 2 (µL)
Analytical Method: OLMO 4.2
GPC Cleanup: (Y/N) N pH:
Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

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

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10/8/03 MA

FORM I SV-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 203081303
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW07R1007
Contract:
Lab File ID: 2030820/T4733
Lab Sample ID: 20308140701
Date Collected: 08/13/03 Time: 1022
Date Received: 08/14/03
Date Extracted:
Date Analyzed: 08/20/03 Time: 1841
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q	
1.	301-02-0	9-Octadecenamide, (Z)-	13.036	26.2		u

10/8/03
[illegible]

FORM 1 SV-TIC

1B

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

Concentrated Sample Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 2 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW06R1007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308140702 Lab File ID: 2030820/T

Date Collected: 08/13/03 Time: 0952

Date Received: 08/14/03

Date Analyzed: 08/20/03 Time: 1906

Dilution Factor: 1 Analyst: DLB

Prep Method:

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	10.0
91-58-7	2-Chloronaphthalene	10.0	U	10.0
95-57-8	2-Chlorophenol	10.0	U	10.0
91-57-6	2-Methylnaphthalene	10.0	U	10.0
88-74-4	2-Nitroaniline	25.0	U	25.0
88-75-5	2-Nitrophenol	10.0	U	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	10.0
99-09-2	3-Nitroaniline	25.0	U	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	10.0
106-47-8	4-Chloroaniline	10.0	U	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	10.0
83-32-9	Acenaphthene	10.0	U	10.0
208-96-8	Acenaphthylene	10.0	U	10.0
120-12-7	Anthracene	10.0	U	10.0
56-55-3	Benzo(a)anthracene	10.0	U	10.0
50-32-8	Benzo(a)pyrene	10.0	U	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.~~22.06~~	J	10.0

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10/8/03 M.R.

FORM I SV-1

000325

1B

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW06R1007

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

Matrix: Water | SAS No.: | SDG No.: 203081303

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20308140702 | Lab File ID: 2030820/T

Level: (low/med) | Date Collected: 08/13/03 | Time: 0952

% Moisture: | decanted: (Y/N) | Date Received: 08/14/03

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 08/20/03 | Time: 1906

Concentrated Sample Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: DLB

Soil Aliquot Volume: (µL) | Prep Method:

Injection Volume: 2 (µL) | Analytical Method: OLMO 4.2

GPC Cleanup: (Y/N) N | pH: | Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
101-55-3	4-Bromophenyl-phenylether	10.0	U	10.0
85-68-7	Butylbenzylphthalate	10.0	U	10.0
86-74-8	Carbazole	10.0	U	10.0
218-01-9	Chrysene	10.0	U	10.0
84-74-2	Di-n-butylphthalate	~~10.0~~ 8.39	J	10.0
117-84-0	Di-n-octylphthalate	10.0	U	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	10.0
132-64-9	Dibenzofuran	10.0	U	10.0
84-66-2	Diethylphthalate	10.0	U	10.0
131-11-3	Dimethyl-phthalate	10.0	U	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	10.0
206-44-0	Fluoranthene	10.0	U	10.0
86-73-7	Fluorene	10.0	U	10.0
118-74-1	Hexachlorobenzene	10.0	U	10.0
87-68-3	Hexachlorobutadiene	10.0	U	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	10.0
67-72-1	Hexachloroethane	10.0	U	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	10.0
78-59-1	Isophorone	10.0	U	10.0
91-20-3	Naphthalene	10.0	U	10.0
100-01-6	4-Nitroaniline	25.0	U	25.0
98-95-3	Nitrobenzene	10.0	U	10.0
100-02-7	4-Nitrophenol	25.0	U	25.0
87-86-5	Pentachlorophenol	25.0	U	25.0
85-01-8	Phenanthrene	10.0	U	10.0
108-95-2	Phenol	10.0	U	10.0
129-00-0	Pyrene	10.0	U	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	10.0
86-30-6	N-Nitrosodiphenylamine	10.0	U	10.0
95-48-7	o-Cresol	10.0	U	10.0

10/8/03

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.: 203081303
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW06R1007
Contract:
Lab File ID: 2030820/T4734
Lab Sample ID: 20308140702
Date Collected: 08/13/03 Time: 0952
Date Received: 08/14/03
Date Extracted:
Date Analyzed: 08/20/03 Time: 1906
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q	
1.	301-02-0	9-Octadecenamide, (Z)-	13.017	13.1		U

10/8/03
MA

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKGW581007

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

Matrix: Water | SAS No.: | SDG No.: 203081303

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 20308140710 | Lab File ID: 2030820/T

Level (low/med) | Date Collected: 08/13/03 | Time: 1535

% Moisture: | decanted (Y/N) | Date Received: 08/14/03

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 08/20/03 | Time: 2202

Concentrated Sample Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: DLB

Soil Aliquot Volume: (µL) | Prep Method:

Injection Volume: 2 (µL) | Analytical Method: OLMO 4.2

GPC Cleanup: (Y/N) N | pH: | Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	10.0
91-58-7	2-Chloronaphthalene	10.0	U	10.0
95-57-8	2-Chlorophenol	10.0	U	10.0
91-57-6	2-Methylnaphthalene	10.0	U	10.0
88-74-4	2-Nitroaniline	25.0	U	25.0
88-75-5	2-Nitrophenol	10.0	U	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	10.0
99-09-2	3-Nitroaniline	25.0	U	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	10.0
106-47-8	4-Chloroaniline	10.0	U	10.0
7005-72-3	4-Chlorophenyl-phenyl ether	10.0	U	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	10.0
83-32-9	Acenaphthene	10.0	U	10.0
208-96-8	Acenaphthylene	10.0	U	10.0
120-12-7	Anthracene	10.0	U	10.0
56-55-3	Benzo(a)anthracene	10.0	U	10.0
50-32-8	Benzo(a)pyrene	10.0	U	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	10.0
108-95-2	Phenol	10.0	U	10.0
129-00-0	Pyrene	10.0	U	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	10.0
86-30-6	N-Nitrosodiphenylamine	10.0	U	10.0
95-48-7	o-Cresol	10.0	U	10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: SKGW581007
Lab Code: LA024 Case No.:
Contract:
Matrix: Water
SAS No.: SDG No.: 203081303
Sample wt/vol: 1000 Units: mL
Lab Sample ID: 20308140710 Lab File ID: 2030820/T
Level: (low/med)
Date Collected: 08/13/03 Time: 1535
% Moisture: decanted: (Y/N)
Date Received: 08/14/03
GC Column: DB-5MS-30M ID: .25 (mm)
Date Analyzed: 08/20/03 Time: 2202
Concentrated Sample Volume: 1000 (µL)
Dilution Factor: 1 Analyst: DLB
Soil Aliquot Volume: (µL)
Prep Method:
Injection Volume: 2 (µL)
Analytical Method: OLMO 4.2
GPC Cleanup: (Y/N) N pH:
Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL	
207-08-9	Benzo(k)fluoranthene	10.0	U	10.0	
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	10.0	
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	10.0	
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	10.0	
117-81-7	bis(2-ethylhexyl)phthalate	~~10.0~~ 11	J	10.0	u
101-55-3	4-Bromophenyl-phenylether	10.0	U	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	10.0	
86-74-8	Carbazole	10.0	U	10.0	
218-01-9	Chrysene	10.0	U	10.0	
84-74-2	Di-n-butylphthalate	~~10.0~~ 102	J	10.0	u
117-84-0	Di-n-octylphthalate	10.0	U	10.0	
53-70-3	Dibenz(a,h)anthracene	10.0	U	10.0	
132-64-9	Dibenzofuran	10.0	U	10.0	
84-66-2	Diethylphthalate	10.0	U	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	10.0	
206-44-0	Fluoranthene	10.0	U	10.0	
86-73-7	Fluorene	10.0	U	10.0	
118-74-1	Hexachlorobenzene	10.0	U	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	10.0	
67-72-1	Hexachloroethane	10.0	U	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	10.0	
78-59-1	Isophorone	10.0	U	10.0	
91-20-3	Naphthalene	10.0	U	10.0	
100-01-6	4-Nitroaniline	25.0	U	25.0	
98-95-3	Nitrobenzene	10.0	U	10.0	
100-02-7	4-Nitrophenol	25.0	U	25.0	
87-86-5	Pentachlorophenol	25.0	U	25.0	
85-01-8	Phenanthrene	10.0	U	10.0	

10/8/03 MSR

FORM I SV-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No
SAS No.: SDG No.: 203081303
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGA581007
Contract:
Lab File ID: 2030820/T4741
Lab Sample ID: 203081407 10
Date Collected: 08/13/03 Time: 1535
Date Received: 08/14/03
Date Extracted:
Date Analyzed: 08/20/03 Time: 2202
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	301-02-0	9-Octadecenamide, (Z)-	13.02	17.5	

U

10/8/03

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: SKGW58D1007
Lab Code: LA024 Case No.:
Contract:
Matrix: Water
SAS No.: SDG No.: 203081303
Sample wt/vol: 1000 Units: mL
Lab Sample ID: 20308140711 Lab File ID: 2030820/T
Level: (low/med)
Date Collected: 08/13/03 Time: 1615
% Moisture: decanted: (Y/N)
Date Received: 08/14/03
GC Column: DB-5MS-30M ID: .25 (mm)
Date Analyzed: 08/20/03 Time: 2227
Concentrated Sample Volume: 1000 (µL)
Dilution Factor: 1 Analyst: DLB
Soil Aliquot Volume: (µL)
Prep Method:
Injection Volume: 2 (µL)
Analytical Method: OLMO 4.2
GPC Cleanup: (Y/N) N pH:
Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	10.0
91-58-7	2-Chloronaphthalene	10.0	U	10.0
95-57-8	2-Chlorophenol	10.0	U	10.0
91-57-6	2-Methylnaphthalene	10.0	U	10.0
88-74-4	2-Nitroaniline	25.0	U	25.0
88-75-5	2-Nitrophenol	10.0	U	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	10.0
99-09-2	3-Nitroaniline	25.0	U	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	10.0
106-47-8	4-Chloroaniline	10.0	U	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	10.0
83-32-9	Acenaphthene	10.0	U	10.0
208-96-8	Acenaphthylene	10.0	U	10.0
120-12-7	Anthracene	10.0	U	10.0
56-55-3	Benzo(a)anthracene	10.0	U	10.0
50-32-8	Benzo(a)pyrene	10.0	U	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	10.0
108-95-2	Phenol	10.0	U	10.0
129-00-0	Pyrene	10.0	U	10.0
621-64-7	N-Nitroso-dl-n-propylamine	10.0	U	10.0
86-30-6	N-Nitrosodiphenylamine	10.0	U	10.0
95-48-7	o-Cresol	10.0	U	10.0

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SHGW58D1007

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

Matrix: Water | SAS No.: | SDG No.: 203081303

Sample wt/vol: 1000 | Units: mL | Lab Sample ID: 2030814071 1 | Lab File ID: 2030820/T

Level: (low/med) | Date Collected: 08/13/03 | Time: 1615

% Moisture: | decanted (Y/N) | Date Received: 08/14/03

GC Column: DB-5MS-30M | ID: .25 (mm) | Date Analyzed: 08/20/03 | Time: 2227

Concentrated Sample Volume: 1000 (µL) | Dilution Factor: 1 | Analyst: DLB

Soil Aliquot Volume: (µL) | Prep Method:

Injection Volume: 2 (µL) | Analytical Method: OLMO 4.2

GPC Cleanup: (Y/N) N | pH: | Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL	
207-08-9	Benzo(k)fluoranthene	10.0	U	10.0	
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	10.0	
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	10.0	
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	10.0	
117-81-7	bis(2-ethylhexyl)phthalate	~~0.635~~ 10.0	J	10.0	u
101-55-3	4-Bromophenyl-phenylether	10.0	U	10.0	
85-68-7	Butylbenzylphthalate	10.0	U	10.0	
86-74-8	Carbazole	10.0	U	10.0	
218-01-9	Chrysene	10.0	U	10.0	
84-74-2	Di-n-butylphthalate	~~0.185~~ 10.0	J	10.0	u
117-84-0	Di-n-octylphthalate	10.0	U	10.0	
53-70-3	Dibenz(a,h)anthracene	10.0	U	10.0	
132-64-9	Dibenzofuran	10.0	U	10.0	
84-66-2	Diethylphthalate	10.0	U	10.0	
131-11-3	Dimethyl-phthalate	10.0	U	10.0	
105-67-9	2,4-Dimethylphenol	10.0	U	10.0	
206-44-0	Fluoranthene	10.0	U	10.0	
86-73-7	Fluorene	10.0	U	10.0	
118-74-1	Hexachlorobenzene	10.0	U	10.0	
87-68-3	Hexachlorobutadiene	10.0	U	10.0	
77-47-4	Hexachlorocyclopentadiene	10.0	U	10.0	
67-72-1	Hexachloroethane	10.0	U	10.0	
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	10.0	
78-59-1	Isophorone	10.0	U	10.0	
91-20-3	Naphthalene	10.0	U	10.0	
100-01-6	4-Nitroaniline	25.0	U	25.0	
98-95-3	Nitrobenzene	10.0	U	10.0	
100-02-7	4-Nitrophenol	25.0	U	25.0	
87-86-5	Pentachlorophenol	25.0	U	25.0	
85-01-8	Phenanthrene	10.0	U	10.0	

10/8/03 MW

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 2 Case No.:
SAS No.: SDG No.: 203081303
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW58D1007
Contract:
Lab File ID: 2030820/T4742
Lab Sample ID: 20308140711
Date Collected: 08/13/03 Time: 1615
Date Received: 08/14/03
Date Extracted:
Date Analyzed: 08/20/03 Time: 2227
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q	
1.	301-02-0	9-Octadecenamide, (Z)-	13.027	22.8		U

10/8/03
MT

FORM I SV-TIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SKGW611007
Lab Code:	LA024 Case No.:	Contract:	
Matrix:	Water	SAS No.:	SDG No.: 203081303
Sample wt/vol:	1000 Units mL	Lab Sample ID:	203081407 12 Lab File ID: 2030820/T
Level: (low/med)		Date Collected:	08/13/03 Time: 1650
% Moisture:	decanted: (Y/N)	Date Received:	08/14/03
GC Column:	DB-5MS-30M ID: .25 (mm)	Date Analyzed:	08/20/03 Time: 2252
Concentrated Sample Volume:	1000 (µL)	Dilution Factor:	1 Analyst: DLB
Soil Aliquot Volume:	(µL)	Prep Method:	
Injection Volume:	2 (µL)	Analytical Method:	OLMO 4.2
GPC Cleanup: (Y/N)	N pH:	Instrument ID:	MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	10.0
91-58-7	2-Chloronaphthalene	10.0	U	10.0
95-57-8	2-Chlorophenol	10.0	U	10.0
91-57-6	2-Methylnaphthalene	10.0	U	10.0
88-74-4	2-Nitroaniline	25.0	U	25.0
88-75-5	2-Nitrophenol	10.0	U	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	10.0
99-09-2	3-Nitroaniline	25.0	U	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	10.0
106-47-8	4-Chloroaniline	10.0	U	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	10.0
83-32-9	Acenaphthene	10.0	U	10.0
208-96-8	Acenaphthylene	10.0	U	10.0
120-12-7	Anthracene	10.0	U	10.0
56-55-3	Benzo(a)anthracene	10.0	U	10.0
50-32-8	Benzo(a)pyrene	10.0	U	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	10.0
108-95-2	Phenol	10.0	U	10.0
129-00-0	Pyrene	10.0	U	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	10.0
86-30-6	N-Nitrosodiphenylamine	10.0	U	10.0
95-48-7	o-Cresol	10.0	U	10.0

1B

SEMIVOLATILE 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: DB-5MS-30M ID: .25 (mm)
Concentrated Sample Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 2 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW611007
Contract:
SAS No.: SDG No.: 203081303
Lab Sample ID: 203081407 12 Lab File ID: 2030820/T
Date Collected: 08/13/03 Time: 1650
Date Received: 08/14/03
Date Analyzed: 08/20/03 Time: 2252
Dilution Factor: 1 Analyst: DLB
Prep Method:
Analytical Method: OLM0 4.2
Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
207-08-9	Benzo(k)fluoranthene	10.0	U	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	10.0
117-81-7	bis(2-ethylhexyl)phthalate	40.6		10.0
101-55-3	4-Bromophenyl-phenylether	10.0	U	10.0
85-68-7	Butylbenzylphthalate	10.0	U	10.0
86-74-8	Carbazole	10.0	U	10.0
218-01-9	Chrysene	10.0	U	10.0
84-74-2	Di-n-butylphthalate	~~21.31~~ 10.3	J	10.0
117-84-0	Di-n-octylphthalate	10.0	U	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	10.0
132-64-9	Dibenzofuran	10.0	U	10.0
84-66-2	Diethylphthalate	10.0	U	10.0
131-11-3	Dimethyl-phthalate	10.0	U	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	10.0
206-44-0	Fluoranthene	10.0	U	10.0
86-73-7	Fluorene	10.0	U	10.0
118-74-1	Hexachlorobenzene	10.0	U	10.0
87-68-3	Hexachlorobutadiene	10.0	U	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	10.0
67-72-1	Hexachloroethane	10.0	U	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	10.0
78-59-1	Isophorone	10.0	U	10.0
91-20-3	Naphthalene	10.0	U	10.0
100-01-6	4-Nitroaniline	25.0	U	25.0
98-95-3	Nitrobenzene	10.0	U	10.0
100-02-7	4-Nitrophenol	25.0	U	25.0
87-86-5	Pentachlorophenol	25.0	U	25.0
85-01-8	Phenanthrene	10.0	U	10.0

U

10/8/03

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.: 203081303
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW611007
Contract:
Lab File ID: 2030820/T4743
Lab Sample ID: 20308140712
Date Collected: 08/13/03 Time: 1650
Date Received: 08/14/03
Date Extracted:
Date Analyzed: 08/20/03 Time: 2252
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS.

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	301-02-0	9-Octadecenamide, (Z-	13.027	30.7	

FORM I SV-TIC

SEMIVOLATILE 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: DB-5MS-30M ID: .25 (mm)
Concentrated Sample Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 2 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW631007
Contract:
SAS No.: SDG No.: 203081303
Lab Sample ID: 203081407 16 Lab File ID: 2030820/T
Date Collected: 08/13/03 Time: 1755
Date Received: 08/14/03
Date Analyzed: 08/21/03 Time: 0007
Dilution Factor: 1 Analyst: DLB
Prep Method:
Analytical Method: OLMO 4.2
Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	10.0
91-58-7	2-Chloronaphthalene	10.0	U	10.0
95-57-8	2-Chlorophenol	10.0	U	10.0
91-57-6	2-Methylnaphthalene	10.0	U	10.0
88-74-4	2-Nitroaniline	25.0	U	25.0
88-75-5	2-Nitrophenol	10.0	U	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	10.0
99-09-2	3-Nitroaniline	25.0	U	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	10.0
106-47-8	4-Chloroaniline	10.0	U	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	10.0
83-32-9	Acenaphthene	10.0	U	10.0
208-96-8	Acenaphthylene	10.0	U	10.0
120-12-7	Anthracene	10.0	U	10.0
56-55-3	Benzo(a)anthracene	10.0	U	10.0
50-32-8	Benzo(a)pyrene	10.0	U	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	10.0
117-81-7	bis(2-ethylhexyl)phthalate	37.5		10.0

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SKGW631007
Lab Code:	LA024 Case No.:	Contract:	
Matrix:	Water	SAS No.:	SDG No.: 203081303
Sample wt/vol:	1000 Units: mL	Lab Sample ID:	203081407 16 Lab File ID: 2030820/T
Level: (low/med)		Date Collected:	08/13/03 Time: 1755
% Moisture:	decanted: (Y/N)	Date Received:	08/14/03
GC Column:	DB-5MS-30M ID: .25 (mm)	Date Analyzed:	08/21/03 Time: 0007
Concentrated Sample Volume:	1000 (µL)	Dilution Factor:	1 Analyst: DLB
Soil Aliquot Volume:	(µL)	Prep Method:	
Injection Volume:	2 (µL)	Analytical Method:	OLM0 4.2
GPC Cleanup: (Y/N)	N pH:	Instrument ID:	MSSV3

CONCENTRATION UNITS: ug/L

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

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1/8/03

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.: 203081303
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW631007
Contract:
Lab File ID: 2030820/T4746
Lab Sample ID: 20308140716
Date Collected: 08/13/03 Time: 1755
Date Received: 08/14/03
Date Extracted:
Date Analyzed: 08/21/03 Time: 0007
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	301-02-0	9-Octadecenamide, (Z)-	13.026	23.6	

FORM I SV-TIC

SEMIVOLATILE 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: DB-5MS-30M ID: .25 (mm)
Concentrated Sample Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 2 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGWFB1007
Contract:
SAS No.: SDG No.: 203081303
Lab Sample ID: 20308140717 Lab File ID: 2030820/T
Date Collected: 08/13/03 Time: 1830
Date Received: 08/14/03
Date Analyzed: 08/21/03 Time: 0032
Dilution Factor: 1 Analyst: DLB
Prep Method:
Analytical Method: OLMO 4.2
Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

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

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10/8/03
MW

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: SKGWFB1007
Lab Code: LA024 Case No.:
Contract:
Matrix: Water
SAS No.: SDG No.: 203081303
Sample wt/vol: 1000 Units: mL
Lab Sample ID: 20308140717 Lab File ID: 2030820/T
Level: (low/med)
Date Collected: 08/13/03 Time: 1830
% Moisture: decanted: (Y/N)
Date Received: 08/14/03
GC Column: DB-5MS-30M ID: .25 (mm)
Date Analyzed: 08/21/03 Time: 0032
Concentrated Sample Volume: 1000 (µL)
Dilution Factor: 1 Analyst: DLB
Soil Aliquot Volume: (µL)
Prep Method:
Injection Volume: 2 (µL)
Analytical Method: OLMO 4.2
GPC Cleanup: (Y/N) N pH:
Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
101-55-3	4-Bromophenyl-phenylether	10.0	U	10.0
85-68-7	Butylbenzylphthalate	10.0	U	10.0
86-74-8	Carbazole	10.0	U	10.0
218-01-9	Chrysene	10.0	U	10.0
84-74-2	Di-n-butylphthalate	~~1.22~~ 10	J	10.0
117-84-0	Di-n-octylphthalate	10.0	U	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	10.0
132-64-9	Dibenzofuran	10.0	U	10.0
84-66-2	Diethylphthalate	10.0	U	10.0
131-11-3	Dimethyl-phthalate	10.0	U	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	10.0
206-44-0	Fluoranthene	10.0	U	10.0
86-73-7	Fluorene	10.0	U	10.0
118-74-1	Hexachlorobenzene	10.0	U	10.0
87-68-3	Hexachlorobutadiene	10.0	U	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	10.0
67-72-1	Hexachloroethane	10.0	U	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	10.0
78-59-1	Isophorone	10.0	U	10.0
91-20-3	Naphthalene	10.0	U	10.0
100-01-6	4-Nitroaniline	25.0	U	25.0
98-95-3	Nitrobenzene	10.0	U	10.0
100-02-7	4-Nitrophenol	25.0	U	25.0
87-86-5	Pentachlorophenol	25.0	U	25.0
85-01-8	Phenanthrene	10.0	U	10.0
108-95-2	Phenol	10.0	U	10.0
129-00-0	Pyrene	10.0	U	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	10.0
86-30-6	N-Nitrosodiphenylamine	10.0	U	10.0
95-48-7	o-Cresol	10.0	U	10.0

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10/8/03 MC

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.: 203081303
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGMFS1007
Contract:
Lab File ID: 2030820/74747
Lab Sample ID: 20308140717
Date Collected: 08/13/03 Time: 1830
Date Received: 08/14/03
Date Extracted:
Date Analyzed: 08/21/03 Time: 0032
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS.

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	301-02-0	9-Octadecenamide, (Z)-	13.007	24.8	

FORM 1 SV-TIC

1D

SEMIVOLATILE 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: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW641007
Contract:
SAS No.: SDG No.: 203081303
Lab Sample ID: 20308130301
Date Collected: 08/12/03 Time: 1530
Date Received: 08/13/03
Date Analyzed: 08/31/03 Time: 1646
Dilution Factor: 1 Analyst: DLB
Prep Method:
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B
Lab File ID: 2030830/SV8042

CONCENTRATION UNITS: ug/L

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

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10/13/03 AR

SEMI-VOLATILE 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: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW591007
Contract:
SAS No.: SDG No.: 203081303
Lab Sample ID: 20308130302
Date Collected: 08/12/03 Time: 1333
Date Received: 08/13/03
Date Analyzed: 08/30/03 Time: 2043
Dilution Factor: 1 Analyst: DLB
Prep Method:
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B
Lab File ID: 2030830/SV8020

CONCENTRATION UNITS: ug/L

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

1D

SEMIVOLATILE 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: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW62A1007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308130303

Date Collected: 08/12/03 Time: 1407

Date Received: 08/13/03

Date Analyzed: 08/30/03 Time: 2117

Dilution Factor: 1 Analyst: DLB

Prep Method:

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N *Instrument ID:* GCS8B

Lab File ID: 2030830/SV8021

CONCENTRATION UNITS: ug/L

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

SEMI-VOLATILE 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: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW07R1007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308140701

Date Collected: 08/13/03 Time: 1022

Date Received: 08/14/03

Date Analyzed: 08/30/03 Time: 2152

Dilution Factor: 1 Analyst: DLB

Prep Method:

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030830/SV8022

CONCENTRATION UNITS: ug/L

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

1D

SEMIVOLATILE 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: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW06R1007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308140702

Date Collected: 08/13/03 Time: 0952

Date Received: 08/14/03

Date Analyzed: 08/30/03 Time: 2226

Dilution Factor: 1 Analyst: DLB

Prep Method:

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030830/SV8023

CONCENTRATION UNITS: ug/L

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

1D

SEMIVOLATILE 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: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW581007

Contract

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308140710

Date Collected: 08/13/03 Time: 1535

Date Received: 08/14/03

Date Analyzed: 08/31/03 Time: 1247

Dilution Factor: 1 Analyst: DLB

Prep Method:

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030830/SV8035

CONCENTRATION UNITS: ug/L

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

UJ

10/10/03

1D

SEMIVOLATILE 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: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW58D1007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308140711

Date Collected: 08/13/03 Time: 1615

Date Received: 08/14/03

Date Analyzed: 08/31/03 Time: 1321

Dilution Factor: 1 Analyst: DLB

Prep Method:

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030830/SV8036

CONCENTRATION UNITS: ug/L

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

10/10/03 MSL

FORM I SV-1

SEMIVOLATILE ORGANIC 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: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKGME11007
Contract:
SAS No.: SDG No.: 203081303
Lab Sample ID: 20308140712
Date Collected: 08/13/03 Time: 1650
Date Received: 08/14/03
Date Analyzed: 08/31/03 Time: 1355
Dilution Factor: 1 Analyst: DLB
Prep Method:
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B
Lab File ID: 2030830/SV8037

CONCENTRATION UNITS: ug/L

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

UJ

FORM I SV-1

1D

SEMIVOLATILE 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: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGW631007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308140716

Date Collected: 08/13/03 Time: 1755

Date Received: 08/14/03

Date Analyzed: 08/31/03 Time: 1538

Dilution Factor: 1 Analyst: DLB

Prep Method:

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030830/SV8040

CONCENTRATION UNITS: ug/L

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

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10/10/03

FORM I SV-1

1D

SEMI-VOLATILE 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: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKGWFB1007

Contract:

SAS No.: SDG No.: 203081303

Lab Sample ID: 20308140717

Date Collected: 08/13/03 Time: 1830

Date Received: 08/14/03

Date Analyzed: 08/31/03 Time: 1612

Dilution Factor: 1 Analyst: DLB

Prep Method:

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030830/SV8041

CONCENTRATION UNITS: ug/L

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

UJ

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FORM I SV-1

DATA VALIDATION REPORT

FOR

SKINNER LANDFILL SITE

EARTH TECH: PROJECT NUMBER 38335

LABORATORY REPORT NUMBER 203081407

PROJECT MANAGER: Ron Rolker

Date: October 21, 2003

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 203081407 INORGANICS

Validation of the inorganics data, as prepared by Gulf Coast Analytical Laboratories (GCAL) for the samples collected from the Skinner Landfill site in August 2003, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. These data were reported by GCAL under Sample Delivery Group (SDG) 203081407.

GCAL #	Sample Description
20308140703	SKSW511007
20308140704	SKSW511007 MS
20308140706	SKSW511007 DUP
20308140707	SKSWFB1007
20308140708	SKSW521007
20308140709	SKSW531007
20308140721	SKSW511007 (DISS)
20308140722	SKSW511007 MS (DISS)
20308140723	SKSW511007 DUP (DISS)
20308140724	SKSWFB1007 (DISS)
20308140725	SKSW521007 (DISS)
20308140726	SKSW531007 (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 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 inorganics data validation findings and conclusions are provided in the following sections of this report:

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

1. HOLDING TIMES

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

2. CALIBRATION

A. Initial Calibration

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

B. Continuing Calibration

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

3. BLANKS

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

4. ICP INTERFERENCE CHECK SAMPLE

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

5. LABORATORY CONTROL SAMPLES

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

6. DUPLICATE ANALYSIS

The laboratory used sample SKGW511007 and SKGW511007 (Dissolved) for the duplicate sample. The RPD between the sample and duplicate were within the acceptance criteria for all target compounds in the total and dissolved fractions.

7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SKGW511007 and SKGW511007 (Dissolved) for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) in the total fraction with the exception of Selenium (67%).

The MS percent recoveries were within the acceptance criteria (75%-125%) in the dissolved fraction for all analytes. As per the National Functional Guidelines: if spike recovery results is greater than 30% but less than the lower acceptance limit then qualify the detected results for that analyte with "J" and non-detected results with "UJ".

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 percent differences were within the acceptance criteria for all target analytes in the total and dissolved fractions.

9. SYSTEM PERFORMANCE

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

10. DOCUMENTATION

The documentation appeared accurate and in order.

11. OVERALL ASSESSMENT

The percent recoveries for Thallium in the Contract Required Detection Limit (CRDL) standards were 122%, 144%, and 131%. The detected Thallium results were qualified with as estimated with "J".

Beryllium, Thallium, and Zinc were detected in the Field Blank (Total) at a concentration of 0.2 B, 9.4 B, and 3.6 B ppb respectively. Arsenic, Beryllium, Iron, Nickel, Thallium, and Zinc were detected in the Field Blank (Dissolved) at a concentration of 3.2 B, 0.3 B, 15.9 B, 0.9 B, 7.4 B, and 4.1 B ppb respectively. It should be noted that the laboratory supplied the water used for the Field Blank. The results that are greater than the IDL but less than the CRDL are flagged with a ("B") qualifier by the laboratory.

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 203081407 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 August 2003, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. These data were reported by GCAL under SDG 203081407.

GCAL #	Sample Description
20308140703	SKSW511007
20308140704	SKSW511007 MS
20308140705	SKSW511007 MSD
20308140707	SKSWFB1007
20308140708	SKSW521007
20308140709	SKSW531007

INTRODUCTION

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

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

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

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

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

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

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

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

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

1. HOLDING TIMES

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

2. GC/MS TUNING

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

3. CALIBRATION

A. Initial Calibration

One IC dated 8/20/03 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.

The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Diethylphthalate. The lowest point of the calibration curve was dropped and the %RSD was recalculated. The recalculated %RSD was 5.6%, which is within the acceptance criteria of less than 30%. Diethylphthalate results less than 50 ppb but greater than the IDL were qualified as estimated with a "J" by the data validator.

B. Continuing Calibration

One CC dated 8/20/03 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC dated 8/20/03 were within the acceptance criteria for all reported analytes. The percent difference (%D) between the average RRF's and the CC Response Factors were within the acceptance criteria for all reported analytes

4. BLANKS

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

<u>Method Blank (114735)</u>

Di-n-butyl phthalate (1.05 ppb) was detected in the method blank extracted on 8/14/03. The results for Di-n-butyl phthalate less than 10.5 ppb were qualified with "U" for samples extracted with method blank 114735.

Bis (2-Ethylhexyl) phthalate (0.78 J ppb) was also detected in the method blank extracted on 8/14/03. The results for bis (2-Ethylhexyl) phthalate less than 7.8 ppb were qualified with "U" for samples extracted with method blank 114735.

<u>Field Blank (SKSWFB1007)</u>

The presence of Di-n-butyl phthalate and bis (2-Ethylhexyl) phthalate detected in the field blank was mitigated because Di-n-butyl phthalate and bis (2-Ethylhexyl) phthalate were detected in the associated method blank.

5. SYSTEM MONITORING COMPOUND RECOVERY

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

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSW511007 was used for the matrix spike/matrix spike duplicate sample. The MS/MSD percent recoveries were within the acceptance criteria with the exception of 4-Nitrophenol in the MSD. The RPD between the MS and MSD were 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.

12. OVERALL ASSESSMENT

There was low-level Di-n-butylphthalate and bis (2-Ethylhexyl) phthalate contamination associated with the extraction analysis of the surface water samples. It should be noted that phthalates are a common laboratory. The presence of Di-n-butylphthalate and bis (2-Ethylhexyl) phthalate was mitigated in all but two of the ground water samples. The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 203081407 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 August 2003, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. These data were reported by GCAL under SDG 203081407.

GCAL #	Sample Description
20308140703	SKSW511007
20308140704	SKSW511007 MS
20308140705	SKSW511007 MSD
20308140707	SKSWFB1007
20308140708	SKSW521007
20308140709	SKSW531007

INTRODUCTION

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

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

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

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

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

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

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

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

1. HOLDING TIMES

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

2. GC/MS TUNING

All samples were analyzed on a single GC/MS system, identified as MSV0. Two bromofluorobenzene (BFB) tunes were run. The BFB tunes were acceptable.

3. CALIBRATION

A. Initial Calibration

Two IC's dated 8/15/03 and 8/19/03 were analyzed on Instrument MSV0 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards was 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 8/15/03 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone.

The RRF's and the average RRF for the IC dated 8/19/03 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).

B. Continuing Calibration

Two CC's dated 8/15/03 and 8/19/30 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 for the CC dated 8/15/03. 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).

4. BLANKS

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

Method Blank 0815V0BLK01 (8 15 03 1353)

Chloroform was detected at a concentration of 0.66 ppb in the method blank analyzed on 8/15/03.

Method Blank 0819V2BLK01 (8/19/03 1942)

Methylene chloride was detected at a concentration of 0.42 ppb in the method blank analyzed on 8/19/03.

Storage Blank (VHBLK01)

Bromomethane, Chloroform and Methylene chloride were detected at a concentration of 0.37, 0.56 and 0.088 ppb respectively in the storage blank.

Trip Blank (SKGWTB1007)

Bromomethane and Methylene chloride were detected at a concentration of 8.3 and 1.2 ppb respectively in Trip Blank SKGWTB1007 collected on 8/13/03. Sulfur dioxide was also detected at a concentration of 0.4 ppb in Trip Blank SKGWTB1007 collected on 8/13/03.

Field Blank (SKSWFB1007)

Acetone and Methylene chloride were detected at a concentration of 1.3 ppb respectively in the Field Blank collected on 8/13/03. Sulfur dioxide was also detected in the field blank at a concentration of 7.6 ppb.

5. SYSTEM MONITORING COMPOUND RECOVERY

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

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSW511007 was submitted for MS/MSD analysis. The percent recoveries and RDP between the MS/MSD were within the acceptance limits. A matrix spike/matrix spike duplicate is not required when analyzing samples under the CLP SOW OLC02.0

7. LABORATORY CONTROL SAMPLE

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

8. INTERNAL STANDARDS PERFORMANCE

Internal Standard 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 203081407 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 August 2003, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. These data were reported by GCAL under SDG 203081407.

GCAL #	Sample Description
20308140703	SKSW511007
20308140704	SKSW511007 MS
20308140705	SKSW511007 MSD
20308140707	SKSWFB1007
20308140708	SKSW521007
20308140709	SKSW531007

INTRODUCTION

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

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

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

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

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

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

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

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

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

1. HOLDING TIMES

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

2. GC/ECD INSTRUMENT PERFORMANCE CHECK

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

The percent resolution between adjacent peaks was within QC limits for the Pesticide Analyte Resolution Check. The percent resolution between adjacent peaks is within QC limits for the Performance Evaluation Mixtures (PEM).

The percent breakdown for both 4,4-DDT and Endrin in each PEM was less than 20.0% for both GC columns. The combined percent breakdown for 4,4-DDT and Endrin in each PEM was less than 30.0% for both GC columns.

3. INITIAL CALIBRATION

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

The Percent Relative Standard Deviation (%RSD) of the calibration factors for each of the single component pesticides was less than 20% with the exception of 4,4'-DDT (20.3%) and Endrin (20.9%) analyzed on the secondary column. As per the National Functional Guidelines, up to two single component target pesticides (other than the surrogates) per column may exceed the 20.0 percent limit but the %RSD must be less than or equal to 30.0 percent.

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 between the calculated and true amount for each of the pesticides and surrogates were within 25% with the exception of the following:

<u>PEM04 (secondary column)</u>
Endrin (66%)

<u>INDAM02 (primary column)</u>
Endrin (40%)

<u>INDAM03 (primary column)</u>
Endrin (75%)

As per the National Functional Guidelines, if the percent difference is greater than 25 percent for the compound(s) being quantified, qualify all associated positive quantitative results with "J" and the sample quantitation limits for non-detects with "UJ".

5. BLANKS

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

Method Blank 114792

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 8/15/03.

6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria (30%-150%) for all samples.

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSW511007 as used for the matrix spike/matrix spike duplicate sample. The MS/MSD percent recoveries were within the acceptance criteria with the exception of Endrin in the MS. The RPD between the MS and MSD were within the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD data alone.

8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup. The results have been previously qualified therefore further data qualification is not required.

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.

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

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 09/05/2003

GCAL Report 203081407

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

Customer Earth Tech

Project Skinner Landfill

000001

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

CASE NARRATIVE

Client: Earth Tech **Report:** 203081407

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 prep batch 261300, the MS/MSD exhibited sporadic recovery failures. These recoveries were within limits in the LCS. This is attributed to matrix interference.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the secondary analysis of PEM04, INDAM02 and INDAM03, the response for Endrin was high; however, there was no Endrin reported in the samples and Endrin was not being confirmed on this column.

METALS

In the ILM04.1 - CLP Metals analysis for prep batch 261423, the MS recovery was outside the control limits for Selenium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 82%.

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.

SCOTT A. BAILEY
OPERATIONS MANAGER
GCAL REPORT 203081407

Report Sample Summary

	GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
48	20308140703	SKSW511007	Water	08/13/2003 10:52	08/14/2003 09:20
49	20308140704	SKSW511007MS	Water	08/13/2003 11:04	08/14/2003 09:20
50	20308140705	SKSW511007MSD	Water	08/13/2003 11:20	08/14/2003 09:20
50	20308140706	SKSW511007DUP	Water	08/13/2003 11:20	08/14/2003 09:20
	20308140707	SKSWFB1007	Water	08/13/2003 13:55	08/14/2003 09:20
51	20308140708	SKSW521007	Water	08/13/2003 12:50	08/14/2003 09:20
52	20308140709	SKSW531007	Water	08/13/2003 13:25	08/14/2003 09:20
50	20308140721	SKSW511007(DISS)	Water	08/13/2003 10:52	08/14/2003 09:20
50	20308140722	SKSW511007MS(DISS)	Water	08/13/2003 11:04	08/14/2003 09:20
50	20308140723	SKSW511007DUP(DISS)	Water	08/13/2003 11:20	08/14/2003 09:20
	20308140724	SKSWFB1007(DISS)	Water	08/13/2003 13:55	08/14/2003 09:20
51	20308140725	SKSW521007(DISS)	Water	08/13/2003 12:50	08/14/2003 09:20
52	20308140726	SKSW531007(DISS)	Water	08/13/2003 13:25	08/14/2003 09:20

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKSW511007 5W50

Contract:

SAS No.: SDG No.: 203081407

Lab Sample ID: 20308140703

Lab File ID: 2030815/S5535

Date Collected: 08/13/03 Time: 1052

Date Received: 08/14/03

Date Analyzed: 08/15/03 Time: 1712

Dilution Factor: 1 Analyst: RSP

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	5.0	U	5.0	R
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	5.3		1.0	LL
75-15-0	Carbon disulfide	1.0	U	1.0	
56-23-5	Carbon tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
75-09-2	Methylene chloride	0.14	J	2.0	U
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene	1.0	U	1.0	

10/21/03 MR

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

5+50

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentrated Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKSW511007

Contract:

SAS No: SDG No.: 203081407

Lab Sample ID: 20308140703

Lab File ID: 2030815/S5535

Date Collected: 08/13/03 Time: 1052

Date Received: 08/14/03

Date Analyzed: 08/15/03 Time: 1712

Dilution Factor: 1 Analyst: RSP

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSW511007
SW50

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081407

Matrix: Water Lab Sample ID: 20308140703

Sample wt/vol: Units: Lab File ID: 2030815/S5535

Level: (low/med) Date Collected: 08/13/03 Time: 1052

% Moisture: not dec. Date Received: 08/14/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 08/15/03 Time: 1712

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.	7446-09-5	Sulfur dioxide	2.257	518	

FORM I VOA-TIC

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentrated Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKSWFB1007

Contract:

SAS No.: SDG No.: 203081407

Lab Sample ID: 20308140707

Lab File ID: 2030815/S5546

Date Collected: 08/13/03 Time: 1355

Date Received: 08/14/03

Date Analyzed: 08/15/03 Time: 2133

Dilution Factor: 1 Analyst: RJO

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	4.4 ~~5.0~~	~~U~~ J	5.0	~~R~~ J
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
75-15-0	Carbon disulfide	1.0	U	1.0	
56-23-5	Carbon tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
75-09-2	Methylene chloride	1.3	J	2.0	U
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene	1.0	U	1.0	

10/21/03 [illegible]

FORM VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKSWFB1007

Contract:

SAS No.: SDG No.: 203081407

Lab Sample ID: 20308140707

Lab File ID: 2030815/S5546

Date Collected: 08/13/03 Time: 1355

Date Received: 08/14/03

Date Analyzed: 08/15/03 Time: 2133

Dilution Factor: 1 Analyst: RJO

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSWFB1007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081407

Matrix: Water Lab Sample ID: 20308140707

Sample wt/vol: Units: Lab File ID: 2030815/S5546

Level: (low/med) Date Collected: 08/13/03 Time: 1355

% Moisture: not dec. Date Received: 08/14/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 08/15/03 Time: 2133

Instrument ID: MSV0 Dilution Factor: 1 Analyst: RJO

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 3

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	7446-09-5	Sulfur dioxide	2.31	7.63	
2.	75-08-1	Ethanethiol	3.707	8.51	
3.	78-83-1	1-Propanol, 2-methyl-	6.256	.34	

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SW51

Lab Name: GCAL

Sample ID: SKSW521007

Lab Code: LA024 Case No.:

Contract:

Matrix: Water

SAS No.: SDG No.: 203081407

Sample wt/vol: 25 Units: mL

Lab Sample ID: 20308140708

Level: (low/med)

Lab File ID: 2030819/S5614

% Moisture: not dec.

Date Collected: 08/13/03 Time: 1250

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

Date Received: 08/14/03

Instrument ID: MSV0

Date Analyzed: 08/19/03 Time: 2246

Concentrated Extract Volume: (µL)

Dilution Factor: 1 Analyst: RSP

Soil Aliquot Volume: (µL)

Prep Method:

CONCENTRATION UNITS: ug/L

Analytical Method: OLC02.1 - CLP Vo

CAS NO.	COMPOUND	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	5.0	U	5.0	
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	0.34	J	1.0	U
75-15-0	Carbon disulfide	1.0	U	1.0	
56-23-5	Carbon tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
75-09-2	Methylene chloride	0.15	J	2.0	U
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene	1.0	U	1.0	

10/21/03

FORM I VOA

000034

VOLATILE ORGANICS ANALYSIS DATA SHEET

SW51

Lab Name: GCAL | Sample ID: SKSW521007

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

Matrix: Water | SAS No.: | SDG No.: 203081407

Sample wt/vol: 25 | Units: mL | Lab Sample ID: 20308140708

Level: (low/med) | Lab File ID: 2030819/S5614

% Moisture: not dec. | Date Collected: 08/13/03 | Time: 1250

GC Column: DB-624-30M | ID: .53 (mm) | Date Received: 08/14/03

Instrument ID: MSV0 | Date Analyzed: 08/19/03 | Time: 2246

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

Soil Aliquot Volume: (µL) | Prep Method:

CONCENTRATION UNITS: ug/L | Analytical Method: OLC02.1 - CLP Vo

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

FORM VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSW521007
SW51

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081407

Matrix: Water Lab Sample ID: 20308140708

Sample wt/vol: Units: Lab File ID: 2030819/S5614

Level: (low/med) Date Collected: 08/13/03 Time: 1250

% Moisture: not dec. Date Received: 08/14/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 08/19/03 Time: 2246

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.	7446-09-5	Sulfur dioxide	2.293	11.6	

FORM I VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sn 52

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentrated Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKSW531007

Contract:

SAS No.: SDG No.: 203081407

Lab Sample ID: 20308140709

Lab File ID: 2030819/S5616

Date Collected: 08/13/03 Time: 1325

Date Received: 08/14/03

Date Analyzed: 08/19/03 Time: 2337

Dilution Factor: 1 Analyst: RSP

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone	5.0	U	5.0	
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	5.0 ~~2.1~~	J	5.0	u
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
75-15-0	Carbon disulfide	1.0	U	1.0	
56-23-5	Carbon tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
75-09-2	Methylene chloride	0.20	J	2.0	u
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene	1.0	U	1.0	

10/21/03

FORM 1 VOA

000013

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SKSW531007 (SW 52)
Lab Code:	LA024 Case No.:	Contract:	
Matrix:	Water	SAS No.:	SDG No.: 203081407
Sample wt/vol:	25 Units: mL	Lab Sample ID:	20308140709
Level: (low/med)		Lab File ID:	2030819/S5616
% Moisture: not dec.		Date Collected:	08/13/03 Time: 1325
GC Column:	DB-624-30M ID: .53 (mm)	Date Received:	08/14/03
Instrument ID:	MSV0	Date Analyzed:	08/19/03 Time: 2337
Concentratedl Extract Volume:	(µL)	Dilution Factor:	1 Analyst: RSP
Soil Aliquot Volume:	(µL)	Prep Method:	
		Analytical Method:	OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSW531007
SW62

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081407

Matrix: Water Lab Sample ID: 20308140709

Sample wt/vol: Units: Lab File ID: 2030819/S5616

Level: (low/med) Date Collected: 08/13/03 Time: 1325

% Moisture: not dec. Date Received: 08/14/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 08/19/03 Time: 2337

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.	7446-09-5	Sulfur dioxide	2.297	10.6	

FORM I VOA-TIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SKSW511007 SW30
Lab Code:	LA024 Case No.:	Contract:	
Matrix:	Water	SAS No.:	SDG No.: 203081407
Sample wt/vol:	1000 Units: mL	Lab Sample ID:	20308140703 Lab File ID: 2030820/T
Level: (low/med)		Date Collected:	08/13/03 Time: 1052
% Moisture:	decanted: (Y/N)	Date Received:	08/14/03
GC Column:	DB-5MS-30M ID: .25 (mm)	Date Analyzed:	08/20/03 Time: 1931
Concentrated Sample Volume:	1000 (µL)	Dilution Factor:	1 Analyst: DLB
Soil Aliquot Volume:	(µL)	Prep Method:	
Injection Volume:	2 (µL)	Analytical Method:	OLMO 4.2
GPC Cleanup: (Y/N)	N pH:	Instrument ID:	MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	10.0
91-58-7	2-Chloronaphthalene	10.0	U	10.0
95-57-8	2-Chlorophenol	10.0	U	10.0
91-57-6	2-Methylnaphthalene	10.0	U	10.0
88-74-4	2-Nitroaniline	25.0	U	25.0
88-75-5	2-Nitrophenol	10.0	U	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	10.0
99-09-2	3-Nitroaniline	25.0	U	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	10.0
106-47-8	4-Chloroaniline	10.0	U	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	10.0
83-32-9	Acenaphthene	10.0	U	10.0
208-96-8	Acenaphthylene	10.0	U	10.0
120-12-7	Anthracene	10.0	U	10.0
56-55-3	Benzo(a)anthracene	10.0	U	10.0
50-32-8	Benzo(a)pyrene	10.0	U	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	10.0
117-81-7	bis(2-ethylhexyl)phthalate	~~9.460~~ 10.0	J	10.0

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10/31/03

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

6-50

Lab Name: GCAL		Sample ID: SKSW511007	
Lab Code: LA024	Case No.:	Contract:	
Matrix: Water		SAS No.:	SDG No.: 203081407
Sample wt/vol: 1000	Units: mL	Lab Sample ID: 20308140703	Lab File ID: 2030820/T
Level: (low/med)		Date Collected: 08/13/03	Time: 1052
% Moisture:	decanted: (Y/N)	Date Received: 08/14/03	
GC Column: DB-5MS-30M	ID: .25 (mm)	Date Analyzed: 08/20/03	Time: 1931
Concentrated Sample Volume: 1000	(µL)	Dilution Factor: 1	Analyst: DLB
Soil Aliquot Volume:	(µL)	Prep Method:	
Injection Volume: 2	(µL)	Analytical Method: OLMO 4.2	
GPC Cleanup: (Y/N) N	pH:	Instrument ID: MSSV3	

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
101-55-3	4-Bromophenyl-phenylether	10.0	U	10.0
85-68-7	Butylbenzylphthalate	10.0	U	10.0
86-74-8	Carbazole	10.0	U	10.0
218-01-9	Chrysene	10.0	U	10.0
84-74-2	Di-n-butylphthalate	10 C ~~0.96~~	J	10.0
117-84-0	Di-n-octylphthalate	10.0	U	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	10.0
132-64-9	Dibenzofuran	10.0	U	10.0
84-66-2	Diethylphthalate	10.0	U	10.0
131-11-3	Dimethyl-phthalate	10.0	U	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	10.0
206-44-0	Fluoranthene	10.0	U	10.0
86-73-7	Fluorene	10.0	U	10.0
118-74-1	Hexachlorobenzene	10.0	U	10.0
87-68-3	Hexachlorobutadiene	10.0	U	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	10.0
67-72-1	Hexachloroethane	10.0	U	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	10.0
78-59-1	Isophorone	10.0	U	10.0
91-20-3	Naphthalene	10.0	U	10.0
100-01-6	4-Nitroaniline	25.0	U	25.0
98-95-3	Nitrobenzene	10.0	U	10.0
100-02-7	4-Nitrophenol	25.0	U	25.0
87-86-5	Pentachlorophenol	25.0	U	25.0
85-01-8	Phenanthrene	10.0	U	10.0
108-95-2	Phenol	10.0	U	10.0
129-00-0	Pyrene	10.0	U	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	10.0
86-30-6	N-Nitrosodiphenylamine	10.0	U	10.0
95-48-7	o-Cresol	10.0	U	10.0

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10/21/03

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.: 203081407

Matrix: Water

Sample wt/vol: Units:

Level: (low/med)

% Moisture: not dec.

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

Concentrated Extract Volume: (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW511007 SW50

Contract:

Lab File ID: 2030820/T4735

Lab Sample ID: 20308140703

Date Collected: 08/13/03 Time: 1052

Date Received: 08/14/03

Date Extracted:

Date Analyzed: 08/20/03 Time: 1931

Dilution Factor: 1 Analyst: RLW

Prep Method:

Analytical Method: SW-846 8270C

Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	301-02-0	9-Octadecenamide, (Z)-	13.026	28.7	

FORM I SV-TIC

1B

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SKSWFB1007
Lab Code:	LA024 Case No.:	Contract:	
Matrix:	Water	SAS No.:	SDG No.: 203081407
Sample wt/vol:	1000 Units: mL	Lab Sample ID:	20308140707 Lab File ID: 2030820/T
Level: (low/med)		Date Collected:	08/13/03 Time: 1355
% Moisture:	decanted: (Y/N)	Date Received:	08/14/03
GC Column:	DB-5MS-30M ID: .25 (mm)	Date Analyzed:	08/20/03 Time: 2047
Concentrated Sample Volume:	1000 (µL)	Dilution Factor:	1 Analyst: DLB
Soil Aliquot Volume:	(µL)	Prep Method:	
Injection Volume:	2 (µL)	Analytical Method:	OLMO 4.2
GPC Cleanup: (Y/N)	N pH:	Instrument ID:	MSSV3

CONCENTRATION UNITS: ug/L

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

JL

10/21/03

FORM SV-1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: SKSWFB1007
Lab Code: LA024 Case No.:
Contract:
Matrix: Water
SAS No.: SDG No.: 203081407
Sample wt/vol: 1000 Units: mL
Lab Sample ID: 20308140707 Lab File ID: 2030820/T
Level: (low/med)
Date Collected: 08/13/03 Time: 1355
% Moisture: decanted: (Y/N)
Date Received: 08/14/03
GC Column: DB-5MS-30M ID: .25 (mm)
Date Analyzed: 08/20/03 Time: 2047
Concentrated Sample Volume: 1000 (µL)
Dilution Factor: 1 Analyst: DLB
Soil Aliquot Volume: (µL)
Prep Method:
Injection Volume: 2 (µL)
Analytical Method: OLMO 4.2
GPC Cleanup: (Y/N) N pH:
Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
101-55-3	4-Bromophenyl-phenylether	10.0	U	10.0
85-68-7	Butylbenzylphthalate	10.0	U	10.0
86-74-8	Carbazole	10.0	U	10.0
218-01-9	Chrysene	10.0	U	10.0
84-74-2	Di-n-butylphthalate	10.0 ~~1.39~~	J	10.0
117-84-0	Di-n-octylphthalate	10.0	U	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	10.0
132-64-9	Dibenzofuran	10.0	U	10.0
84-66-2	Diethylphthalate	10.0	U	10.0
131-11-3	Dimethyl-phthalate	10.0	U	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	10.0
206-44-0	Fluoranthene	10.0	U	10.0
86-73-7	Fluorene	10.0	U	10.0
118-74-1	Hexachlorobenzene	10.0	U	10.0
87-68-3	Hexachlorobutadiene	10.0	U	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	10.0
67-72-1	Hexachloroethane	10.0	U	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	10.0
78-59-1	Isophorone	10.0	U	10.0
91-20-3	Naphthalene	10.0	U	10.0
100-01-6	4-Nitroaniline	25.0	U	25.0
98-95-3	Nitrobenzene	10.0	U	10.0
100-02-7	4-Nitrophenol	25.0	U	25.0
87-86-5	Pentachlorophenol	25.0	U	25.0
85-01-8	Phenanthrene	10.0	U	10.0
108-95-2	Phenol	10.0	U	10.0
129-00-0	Pyrene	10.0	U	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	10.0
86-30-6	N-Nitrosodiphenylamine	10.0	U	10.0
95-48-7	o-Cresol	10.0	U	10.0

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10/21/03

FORM I SV-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	GCAL	Sample ID:	SKSMFB1007
Lab Code:	LA024 2 Case No.:	Contract:	
SAS No.:	SDG No.: 203081407	Lab File ID	2030820/T4738
Matrix:	Water	Lab Sample ID	20308140707
Sample wt/vol:	Units:	Date Collected	08/13/03 Time: 1355
Level: (low/med)		Date Received	08/14/03
% Moisture: not dec.		Date Extracted	
GC Column:	DB-5MS-30M ID: .25 (mm)	Date Analyzed:	08/20/03 Time: 2047
Concentrated Extract Volume:	(µL)	Dilution Factor:	1 Analyst: RLW
Injection Volume:	1.0 (µL)	Prep Method:	
GPC Cleanup: (Y/N)	N pH:	Analytical Method:	SW-846 8270C
		Instrument ID	MSSV3

Number TICs Found : 1

CONCENTRATION UNITS.

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	301-02-0	9-Octadecenamide (Z)-	13.021	23.7	

FORM I SVTIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SKSW521007 (SW51)
Lab Code:	LA024 Case No.:	Contract:	
Matrix:	Water	SAS No.:	SDG No.: 203081407
Sample wt/vol:	1000 Units: mL	Lab Sample ID:	20308140708 Lab File ID: 2030820/T
Level: (low/med)		Date Collected:	08/13/03 Time: 1250
% Moisture:	decanted: (Y/N)	Date Received:	08/14/03
GC Column:	DB-5MS-30M ID: .25 (mm)	Date Analyzed:	08/20/03 Time: 2112
Concentrated Sample Volume:	1000 (µL)	Dilution Factor:	1 Analyst: DLB
Soil Aliquot Volume:	(µL)	Prep Method:	
Injection Volume:	2 (µL)	Analytical Method:	OLMO 4.2
GPC Cleanup: (Y/N)	N pH:	Instrument ID:	MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	10.0
91-58-7	2-Chloronaphthalene	10.0	U	10.0
95-57-8	2-Chlorophenol	10.0	U	10.0
91-57-6	2-Methylnaphthalene	10.0	U	10.0
88-74-4	2-Nitroaniline	25.0	U	25.0
88-75-5	2-Nitrophenol	10.0	U	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	10.0
99-09-2	3-Nitroaniline	25.0	U	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	10.0
106-47-8	4-Chloroaniline	10.0	U	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	10.0
83-32-9	Acenaphthene	10.0	U	10.0
208-96-8	Acenaphthylene	10.0	U	10.0
120-12-7	Anthracene	10.0	U	10.0
56-55-3	Benzo(a)anthracene	10.0	U	10.0
50-32-8	Benzo(a)pyrene	10.0	U	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.0 ~~6.40~~	J	10.0

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10/31/03

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

5-51

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

Concentrated Sample Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 2 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW521007

Contract:

SAS No.: SDG No.: 203081407

Lab Sample ID: 20308140708 Lab File ID: 2030820/T

Date Collected: 08/13/03 Time: 1250

Date Received: 08/14/03

Date Analyzed: 08/20/03 Time: 2112

Dilution Factor: 1 Analyst: DLB

Prep Method

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
101-55-3	4-Bromophenyl-phenylether	10.0	U	10.0
85-68-7	Butylbenzylphthalate	10.0	U	10.0
86-74-8	Carbazole	10.0	U	10.0
218-01-9	Chrysene	10.0	U	10.0
84-74-2	Di-n-butylphthalate	10.00 ~~617~~	J	10.0
117-84-0	Di-n-octylphthalate	10.0	U	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	10.0
132-64-9	Dibenzofuran	10.0	U	10.0
84-66-2	Diethylphthalate	10.0	U	10.0
131-11-3	Dimethyl-phthalate	10.0	U	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	10.0
206-44-0	Fluoranthene	10.0	U	10.0
86-73-7	Fluorene	10.0	U	10.0
118-74-1	Hexachlorobenzene	10.0	U	10.0
87-68-3	Hexachlorobutadiene	10.0	U	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	10.0
67-72-1	Hexachloroethane	10.0	U	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	10.0
78-59-1	Isophorone	10.0	U	10.0
91-20-3	Naphthalene	10.0	U	10.0
100-01-6	4-Nitroaniline	25.0	U	25.0
98-95-3	Nitrobenzene	10.0	U	10.0
100-02-7	4-Nitrophenol	25.0	U	25.0
87-86-5	Pentachlorophenol	25.0	U	25.0
85-01-8	Phenanthrene	10.0	U	10.0
108-95-2	Phenol	10.0	U	10.0
129-00-0	Pyrene	10.0	U	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	10.0
86-30-6	N-Nitrosodiphenylamine	10.0	U	10.0
95-48-7	o-Cresol	10.0	U	10.0

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10/31/03

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.: 203081407
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Concentrated Extract Volume: (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW521007 5051
Contract:
Lab File ID: 2030820/T4739
Lab Sample ID: 20308140708
Date Collected: 08/13/03 Time: 1250
Date Received: 08/14/03
Date Extracted:
Date Analyzed: 08/20/03 Time: 2112
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: SW-846 8270C
Instrument ID: MSSV3

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	301-02-0	9-Octadecenamide, (Z)-	13.026	31.3	

FORM I SV-TIC

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SW52

Lab Name:	GCAL	Sample ID:	SKSW531007
Lab Code:	LA024 Case No.:	Contract:	
Matrix:	Water	SAS No.:	SDG No.: 203081407
Sample wt/vol:	1000 Units: mL	Lab Sample ID:	20308140709 Lab File ID: 2030820/T
Level: (low/med)		Date Collected:	08/13/03 Time: 1325
% Moisture:	decanted: (Y/N)	Date Received:	08/14/03
GC Column:	DB-5MS-30M ID: .25 (mm)	Date Analyzed:	08/20/03 Time: 2138
Concentrated Sample Volume:	1000 (µL)	Dilution Factor:	1 Analyst: DLB
Soil Aliquot Volume:	(µL)	Prep Method:	
Injection Volume:	2 (µL)	Analytical Method:	OLMO 4.2
GPC Cleanup: (Y/N)	N pH:	Instrument ID:	MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	10.0
91-58-7	2-Chloronaphthalene	10.0	U	10.0
95-57-8	2-Chlorophenol	10.0	U	10.0
91-57-6	2-Methylnaphthalene	10.0	U	10.0
88-74-4	2-Nitroaniline	25.0	U	25.0
88-75-5	2-Nitrophenol	10.0	U	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	10.0
99-09-2	3-Nitroaniline	25.0	U	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	10.0
106-47-8	4-Chloroaniline	10.0	U	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	10.0
83-32-9	Acenaphthene	10.0	U	10.0
208-96-8	Acenaphthylene	10.0	U	10.0
120-12-7	Anthracene	10.0	U	10.0
56-55-3	Benzo(a)anthracene	10.0	U	10.0
50-32-8	Benzo(a)pyrene	10.0	U	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10.00[illegible]	J	10.0

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10/21/03 [illegible]

FORM I SV-1

1B

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

Concentrated Sample Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 2 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW531007 SW52

Contract:

SAS No.: SDG No.: 203081407

Lab Sample ID: 20308140709 Lab File ID: 2030820/T

Date Collected: 08/13/03 Time: 1325

Date Received: 08/14/03

Date Analyzed: 08/20/03 Time: 2138

Dilution Factor: 1 Analyst: DLB

Prep Method:

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
101-55-3	4-Bromophenyl-phenylether	10.0	U	10.0
85-68-7	Butylbenzylphthalate	10.0	U	10.0
86-74-8	Carbazole	10.0	U	10.0
218-01-9	Chrysene	10.0	U	10.0
84-74-2	Di-n-butylphthalate	~~0.0134~~	J	10.0
117-84-0	Di-n-octylphthalate	10.0	U	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	10.0
132-64-9	Dibenzofuran	10.0	U	10.0
84-66-2	Diethylphthalate	10.0	U	10.0
131-11-3	Dimethyl-phthalate	10.0	U	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	10.0
206-44-0	Fluoranthene	10.0	U	10.0
86-73-7	Fluorene	10.0	U	10.0
118-74-1	Hexachlorobenzene	10.0	U	10.0
87-68-3	Hexachlorobutadiene	10.0	U	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	10.0
67-72-1	Hexachloroethane	10.0	U	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	10.0
78-59-1	Isophorone	10.0	U	10.0
91-20-3	Naphthalene	10.0	U	10.0
100-01-6	4-Nitroaniline	25.0	U	25.0
98-95-3	Nitrobenzene	10.0	U	10.0
100-02-7	4-Nitrophenol	25.0	U	25.0
87-86-5	Pentachlorophenol	25.0	U	25.0
85-01-8	Phenanthrene	10.0	U	10.0
108-95-2	Phenol	10.0	U	10.0
129-00-0	Pyrene	10.0	U	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	10.0
86-30-6	N-Nitrosodiphenylamine	10.0	U	10.0
95-48-7	o-Cresol	10.0	U	10.0

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FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SW52

Lab Name: GCAL

Lab Code: LA024 2 Case No.:

SAS No.: SDG No.: 203081407

Matrix: Water

Sample wt/vol: Units:

Level: (low/med)

% Moisture: not dec.

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

Concentrated Extract Volume: (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW531007

Contract:

Lab File ID: 2030820/T4740

Lab Sample ID: 20308140709

Date Collected: 08/13/03 Time: 1325

Date Received: 08/14/03

Date Extracted:

Date Analyzed: 08/20/03 Time: 2138

Dilution Factor: 1 Analyst: RLW

Prep Method:

Analytical Method: SW-846 8270C

Instrument ID: MSSV3

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	301-02-0	9-Octadecenamide, (Z -	13.027	38	

FORM I SV-TIC

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SW50

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: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW511007

Contract:

SAS No.: SDG No.: 203081407

Lab Sample ID: 20308140703

Date Collected: 08/13/03 Time: 1052

Date Received: 08/14/03

Date Analyzed: 08/30/03 Time: 2300

Dilution Factor: 1 Analyst: DLB

Prep Method:

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030830/SV8024

CONCENTRATION UNITS: ug/L

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

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FORM I SV-1

SEMIVOLATILE ORGANIC 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: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWFB1007
Contract:
SAS No.: SDG No.: 203081407
Lab Sample ID: 20308140707
Date Collected: 08/13/03 Time: 1355
Date Received: 08/14/03
Date Analyzed: 08/31/03 Time: 0042
Dilution Factor: 1 Analyst: DLB
Prep Method:
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B
Lab File ID: 2030830/SV8027

CONCENTRATION UNITS: ug/L

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

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FORM I SV-1

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SW51

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: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW521007

Contract:

SAS No.: SDG No.: 203081407

Lab Sample ID: 20308140708

Date Collected: 08/13/03 Time: 1250

Date Received: 08/14/03

Date Analyzed: 08/31/03 Time: 1139

Dilution Factor: 1 Analyst: DLB

Prep Method:

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030830/SV8033

CONCENTRATION UNITS: ug/L

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

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SW52

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: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKSW531007

Contract:

SAS No.: SDG No.: 203081407

Lab Sample ID: 20308140709

Date Collected: 08/13/03 Time: 1325

Date Received: 08/14/03

Date Analyzed: 08/31/03 Time: 1213

Dilution Factor: 1 Analyst: DLB

Prep Method:

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8B

Lab File ID: 2030830/SV8034

CONCENTRATION UNITS: ug/L

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

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081407

SOW No.:

	EPA Sample No.	Lab Sample ID.
SW50	SKSW511007	20308140703
"	SKSW511007MS	20308140704
"	SKSW511007DUP	20308140706
	SKSWFB1007	20308140707
SW51	SKSW521007	20308140708
SW52	SKSW531007	20308140709
SW50	SKSW511007(DISS)	20308140721
SW50	SKSW511007MS(DISS)	20308140722
SW50	SKSW511007DUP(DISS)	20308140723
	SKSWFB1007(DISS)	20308140724
SW51	SKSW521007(DISS)	20308140725
SW52	SKSW531007(DISS)	20308140726

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: Scott Bailey Name: Scott Bailey

Date:: 09/18/03 Title: 09/18/03 Operations Manager

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW511007

5050

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No.: SDG No.: 203081407

Matrix (soil / water) Water Lab Sample ID: 20308140703

Level: (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	55.4	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	1.7	B		P	
7440-50-8	Copper	2.5	B		P	
7439-89-6	Iron	23.5	B		P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.5	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	5.5	B		P	I
7440-66-6	Zinc	10.9	B		P	
57-12-5	Cyanide	3.0	U		AS	

10/22/03
MSM

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

FORM I - IN ILM04.1

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW511007DUP
SW50

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081407

Matrix: (soil / water) Water Lab Sample ID: 20308140706

Level: (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	58.7	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	1.2	B		P	
7440-50-8	Copper	2.9	B		P	
7439-89-6	Iron	14.1	U		P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.6	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	5.8	B		P	J
7440-66-6	Zinc	10.1	B		P	
57-12-5	Cyanide	3.0	U		AS	

10/22/03
MSW

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.

SKSWFB1007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No. SDG No.: 203081407

Matrix: (soil / water) Water Lab Sample ID: 20308140707

Level: (low / med) Date Received 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	0.3	U		P	
7440-41-7	Beryllium	0.2	B		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	0.8	U		P	
7440-50-8	Copper	1.2	U		P	
7439-89-6	Iron	14.1	U		P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	0.7	U		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	9.4	B		P	J
7440-66-6	Zinc	3.6	B		P	
57-12-5	Cyanide	3.0	U		AS	

10/22/03
MSL

Color Before: COLORLESS Clarity Before CLEAR Texture:

Color After: COLORLESS Clarity After CLEAR Artifacts:

Comments:

FORM I - IN ILM04.1

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW521007
SW51

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081407

Matrix: (soil / water) Water Lab Sample ID: 20308140708

Level: (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	50.9	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	1.7	B		P	
7440-50-8	Copper	1.9	B		P	
7439-89-6	Iron	49.5	B		P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	0.7	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	5.9	B		P	J
7440-66-6	Zinc	9.7	B		P	
57-12-5	Cyanide	3.0	U		AS	

10/22/03 MSN

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.

SKSW531007
SW 52

Lab Name: GCAL Contract:

Lab Code: LA024 Case No. SAS No. SDG No.: 203081407

Matrix (soil / water) Water Lab Sample ID: 20308140709

Level (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	54.4	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	1.5	B		P	
7440-50-8	Copper	1.7	B		P	
7439-89-6	Iron	45.9	B		P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	0.7	U		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	6.0	B		P	J
7440-66-6	Zinc	8.7	B		P	
57-12-5	Cyanide	3.0	U		AS	

10/22/03
MEM

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.

SKSW511007(DISS)
SW50

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081407

Matrix: (soil / water) Water Lab Sample ID: 20308140721

Level: (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	7.1	B		P
7440-39-3	Barium	55.2	B		P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1.8	B		P
7440-50-8	Copper	3.1	B		P
7439-89-6	Iron	14.1	U		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.7	B		P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	6.8	B		P
7440-66-6	Zinc	13.8	B		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.

SKSW511007DUP(DISS)
SW50

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081407

Matrix (soil / water): Water Lab Sample ID: 20308140723

Level (low / med): Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	2.9	U		P
7440-39-3	Barium	55.8	B		P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	1.2	B		P
7440-50-8	Copper	2.9	B		P
7439-89-6	Iron	24.9	B		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.9	B		P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	4.9	B		P
7440-66-6	Zinc	10.2	B		P

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10/22/03 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.

SKSWFB1007(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081407

Matrix: (soil / water) Water Lab Sample ID: 20308140724

Level: (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	3.2	B		P
7440-39-3	Barium	0.3	U		P
7440-41-7	Beryllium	0.3	B		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	0.8	U		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	15.9	B		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.9	B		P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	7.4	B		P
7440-66-6	Zinc	4.1	B		P

J

10/22/03 MW

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

U.S. EPA - CLP

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSW521007(DISS)
SW51

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081407

Matrix (soil / water) Water Lab Sample ID: 20308140725

Level: (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	5.3	B		P
7440-39-3	Barium	49.9	B		P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	0.8	U		P
7440-50-8	Copper	2.2	B		P
7439-89-6	Iron	14.1	U		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	0.7	U		P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	10.6			P
7440-66-6	Zinc	13.9	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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

EPA SAMPLE NO.

SKSW531007(DISS)
SW52

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203081407

Matrix: (soil / water) Water Lab Sample ID: 20308140726

Level: (low / med) Date Received: 08/14/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U		P
7440-38-2	Arsenic	4.9	B		P
7440-39-3	Barium	54.2	B		P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	2.1	B		P
7440-50-8	Copper	2.3	B		P
7439-89-6	Iron	14.1	U		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.1	B		P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	6.2	B		P
7440-66-6	Zinc	26.5			P

J

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

GULF COAST ANALYTICAL LABORATORIES, INC.

7979 GSRI Avenue
Baton Rouge, LA
70820-7402

(225) 769-4900 • Fax (225) 767-5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name	Client #	Group #	Due Date
Earth Tech	4347	203081407	8-28-03

Report to:

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

Bill to:

Client:
Address:
Contact: Same
Phone:
Fax:

P.O. Number: 54280.01

Project Name/Number: Sycamore Landfill 3rd Qtr 2003

Sampled By: Pat Higgins & Derek Cooper

Analytical Requests & Method

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

Matrix[1]	Date	Time (2400)	Grab	Comp	Sample Description	Preservatives	No Containers	Semi volatiles	Volatiles	PCB's	Pesticides	total metals	dissolved metals	cyanide		Remarks:	Lab ID
W	8/13	1052		X	SLSW 51 1007	Various	7	X		X	X	X	X	X	(D,SS) -21	Refer to table 7 (TCL) and table 8 (TAL) of final F&M plan for list of analytes	8/14 -03
W	8/13	1104		X	SLSW 51 MS 1007	Various	7	X		X	X	X	X	X	-22		-04

Standard TAT

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Derek Cooper	Fed Ex	8/13/03	2100
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fed Ex	Derek Cooper	8/14/03	0920
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Fed Ex Airbill 5475 9400 1703

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

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

WHITE: CLIENT; YELLOW: LABORATORY; PINK: FILE

GAL-36 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	203081407	5-28-03

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

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

P.O. Number: 54288.01
Project Name/Number: Skinner Landfill 3 Qtr. 2003
Sampled By: Pat Higgins & Derek Cogas

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	Semi-volatiles	Volatiles	PCBs	Pesticides	Total metals	Dissolved metals	Cyanide		(Diss)	Remarks:	Lab ID
8/13	W	1120		X	SLSW51 MSD 1007	Various	7	X		X	X	X	X	X		23	Refer to table 7 (TCL) and table 8 (TAL) of the final version of the O&M plan for analytes	8/14 -05 -06
8/13	W	1355T		X	SLSW FB 1007	Various	7	X		X	X	X	X	X		24		-07

Standard turnaround

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[illegible]	Fed Ex	8/13/2003	2100
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Fed. Ex.	[illegible]	8/14/03	0920
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note: Sent via fedex Airbill # 8425 8400 1700

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

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

We cannot accept verbal changes. Please fax written changes to

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

GULF COAST ANALYTICAL LABORATORIES INC.

7979 GSRI Avenue
Baton Rouge, LA
70820-7402

(225) 769-4900 • Fax (225) 767-5717

CHAIN OF CUSTODY RECORD

Lab use only	Client Name	Client #	Group #	Due Date
	Earth Tech	4342	203081407	8-28-03

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

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

P.O. Number: 54280.01
Project Name/Number: Skinner Landfill 3rd Qtr 2003
Sampled By: Pat Higgins & Derek Copas

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Semi volatiles	Volatiles	PCB's	Pesticides	Total metals	dissolved metals	cyanide	(DISS)	Lab ID
W	8/13	1250		X	SLSW52 1007	Various	7	X		X	X	X	X	X	-25	8, 14
W	8/13	1325		X	SLSW53 1007	Various	7	X		X	X	X	X	X	-26	-05

Remarks: Refer to table 7 and table 8 (TAL) of final O&M Plan for list of analytes

Standard TAT

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	Fed Ex	8/13/13	2400
Fed. Ex.	Maria Hayes	8-14-03	0920

Note: Fed Ex Airbill 5425 8400 1700

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

WHITE CLIENT FINAL REPORT — CANARY LABORATORY — PINK CLIENT

GCAL-06

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 (1 of 2)

Lab use only	Client Name	Client #	Workorder #	Due Date
	Earth Tech	4342	203081407	8-28-03

Report to:
Client: Earth Tech
Address: 2 Cabot Street, Walden, NY 41076
Contact: Pat Higgins
Phone: 859 942-2300
Fax: 859 942-2311

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

P.O. Number: 54280 01
Project Name/Number: Shannon Landfill - 3 Qtr. 2003
Sampled By: Pat Higgins / Derek Lopas

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	PCBs	Pesticides	Total Metals	Dissolved Metals	Cyanide				Remarks:	Lab ID 8/14
W	8/15	~~925~~ 952	PH	X	SK GW06R 1007	ice	3	X										Refer to	-02
		~~1022~~ 1022	PH		SK GW07R 1007													Table 7	-01
		1052			SK SW51 1007													(TCL) and	-03
		1104			SK SW51 MS 1007													Table 8 (TAL)	-04
		1120			SK SW51 MSD 1007													of the final	-05
		1250			SK SW52 1007													version of	-08
		1325			SK SW53 1007													the QSM	-09
		1355			SK SW FB 1007													GP Plan for	-07
		1535			SK GW58 1007													analyte	-10
		1615			SK GW58 FD 1007													lists	-11
		1650			SK GW61 1007														-12
		1710			SK GW61 MS 1007													Standard	-13
		1732			SK GW61 MSD 1007		10		X	X	X	X	X	X			(Diss) -31	Turnaround	-14, 15
		1755			SK GW63 1007		3												-16

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	Fed Ex	8/17/03	2100
Fed Ex	Dana Hayde	8-14-03	0920

Note: * Samples are in work order
Fed Ex Airbill #: 203081303.
8425 8400 1700

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

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

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

WHITE CLIENT FINAL REPORT — CANARY LABORATORY — PINK CLIENT

GCAL-06 11/98

DATA VALIDATION REPORT

FOR

SKINNER LANDFILL SITE

EARTH TECH: PROJECT NUMBER 38335

LABORATORY REPORT NUMBER 203090407

PROJECT MANAGER: Ron Rolker

Date: October 23, 2003

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 203090407 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 2003, was conducted by Earth Tech using the National Functional Guidelines for Inorganic Data Review, (US EPA, February, 1994), as appropriate. These data were reported by GCAL under Sample Delivery Group (SDG) 203090407.

GCAL #	Sample Description
20309040701	SKSWD011007
20309040702	SKSWD011007 MS
20309040704	SKSWD011007 DUP
20309040705	SKSWD021007
20309040706	SKSWD031007
20309040707	SKSWD031007 DUP
20309040709	SKSWD011007 (DISS)
20309040710	SKSWD011007 MS (DISS)
20309040711	SKSWD011007 DUP (DISS)
20309040712	SKSWD021007 (DISS)
20309040713	SKSWD031007 (DISS)
20309040714	SKSWD031007 DUP (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 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 inorganics data validation findings and conclusions are provided in the following sections of this report:

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

1. HOLDING TIMES

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

2. CALIBRATION

A. Initial Calibration

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

B. Continuing Calibration

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

3. BLANKS

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

4. ICP INTERFERENCE CHECK SAMPLE

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

5. LABORATORY CONTROL SAMPLES

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

6. DUPLICATE ANALYSIS

The laboratory used sample SKSWD011007 and SKSWD011007 (Dissolved) for the duplicate sample. The RPD between the sample and duplicate were within the acceptance criteria for all target compounds in the total fraction with the exception of Zinc. The RPD between the sample and duplicate were within the acceptance criteria for all target compounds in the dissolved fraction. As per the National Functional Guidelines, if the RPD acceptance criterion is exceeded then qualify the Zinc results greater than the IDL with "J" and qualify the non-detected Zinc results with "UJ".

7. SPIKE SAMPLE ANALYSIS

The laboratory used sample SKSWD011007 and SKSWD011007 (Dissolved) for the matrix spike sample. The MS percent recoveries were within the acceptance criteria (75%-125%) in the total fraction with the exception of Selenium (51%) and Thallium (72%). The MS percent recoveries were within the acceptance criteria (75%-125%) in the dissolved fraction for all analytes with the exception of Antimony (126%). As per the National Functional Guidelines: if spike recovery results is greater than 30% but less than the lower acceptance limit then qualify the detected results for that analyte with "J" and non-detected results with "UJ".

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 percent differences were within the acceptance criteria for all target analytes in the total and dissolved fractions with the exception of Zinc. The Zinc results greater than the IDL were qualified with as estimated with a "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

The documentation appeared accurate and in order.

11. OVERALL ASSESSMENT

The percent recoveries for Zinc in the Contract Required Detection Limit (CRDL) standards were 65, 65%, and 63%. The detected Zinc results greater than the IDL but less than two times the CRDL were qualified with as estimated with "J". The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 203090407 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 2003, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999) as appropriate. These data were reported by GCAL under SDG 203090407.

GCAL #	Sample Description
20309040701	SKSWD011007
20309040702	SKSWD011007 MS
20309040703	SKSWD011007 MSD
20309040705	SKSWD021007
20309040706	SKSWD031007
20309040707	SKSWD031007 DUP

INTRODUCTION

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

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

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

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

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

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

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

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

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

1. HOLDING TIMES

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

2. GC/MS TUNING

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

3. CALIBRATION

A. Initial Calibration

One IC dated 9/9/03 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.

The %RSD's were within the acceptance criteria specified in the method for all target analytes with the exception of Diethylphthalate. The lowest point of the calibration curve was dropped and the %RSD was recalculated. The recalculated %RSD was 6.9%, which is within the acceptance criteria of less than 30%. Diethylphthalate results less than 50 ppb but greater than the IDL were qualified as estimated with a "J" by the data validator.

B. Continuing Calibration

One CC dated 9/9/03 was analyzed in support of the semivolatile sample analyses reported in the data submissions. The RRF's for the CC dated 9/9/03 were within the acceptance criteria for all reported analytes. The percent difference (%D) between the average RRF's and the CC Response Factors were within the acceptance criteria for all reported analytes

4. BLANKS

One laboratory semivolatile method blank was analyzed with this SDG. The results are summarized below.

<u>Method Blank (117924)</u>

Di-n-butyl phthalate (2.01 ppb) was detected in the method blank extracted on 9/9/03. The results for Di-n-butyl phthalate less than 20.1 ppb were qualified with "U" for samples extracted with method blank 117924.

Bis (2-Ethylhexyl) phthalate (1.06 J ppb) was also detected in the method blank extracted on 9/9/03. The results for bis (2-Ethylhexyl) phthalate less than 10.6 ppb were qualified with "U" for samples extracted with method blank 117924.

5. SYSTEM MONITORING COMPOUND RECOVERY

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

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSWD011007 was used for the matrix spike matrix spike duplicate sample. The MS/MSD percent recoveries were within the acceptance criteria.

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.

12. OVERALL ASSESSMENT

The results are acceptable with the validator-added qualifiers.

DATA VALIDATION SUMMARY – SAMPLE DELIVERY GROUP 203090407
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 2003, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. These data were reported by GCAL under SDG 203090407.

GCAL #	Sample Description
20309040701	SKSWD011007
20309040702	SKSWD011007 MS
20309040703	SKSWD011007 MSD
20309040705	SKSWD021007
20309040706	SKSWD031007
20309040707	SKSWD031007 DUP
20309040708	SKSWDTB1007

INTRODUCTION

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

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

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

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

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

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

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

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

1. HOLDING TIMES

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

2. GC/MS TUNING

All samples were analyzed on a single GC/MS system, identified as MSV0. One bromofluorobenzene (BFB) tune was run. The BFB tune was acceptable.

3. CALIBRATION

A. Initial Calibration

One IC dated 9/5/03 was analyzed on Instrument MSV0 in support of the volatile sample analyses reported in the data submissions. Documentation of the IC standards was 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 9/5/03 were within the acceptance criteria specified in the method for all target analytes with the exception of Acetone and 2-Butanone.

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).

B. Continuing Calibration

One CC dated 9/5/03 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. 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).

4. BLANKS

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

<u>Method Blank MB117777 (9/5/03 1354)</u>

Sulfur dioxide was detected at a concentration of 0.66 ppb in the method blank analyzed on 8/15/03.

<u>Storage Blank (VHBLK01)</u>

Methylene chloride although not quantitated was detected in the storage blank. Sulfur dioxide was detected at a concentration of 3.7 ppb in the storage blank.

Trip Blank (SKSWDTB1007)

Methylene chloride and 2-Butanone were detected at a concentration of 4.1 and 3.8 ppb respectively in Trip Blank SKSWDTB1007 collected on 9/2/03. Sulfur dioxide was also detected at a concentration of 248 ppb in Trip Blank SKSWDTB1007 collected on 9/2/03.

5. SYSTEM MONITORING COMPOUND RECOVERY

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

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSWD011007 was submitted for MS/MSD analysis. The percent recoveries and RDP between the MS/MSD were within the acceptance limits. A matrix spike/matrix spike duplicate is not required when analyzing samples under the CLP SOW OLC02.0

7. LABORATORY CONTROL SAMPLE

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

8. INTERNAL STANDARDS PERFORMANCE

Internal Standard 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 203090407 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 2003, was conducted by Earth Tech using the National Functional Guidelines for Organic Data Review, (US EPA, October, 1999), as appropriate. These data were reported by GCAL under SDG 203090407.

GCAL #	Sample Description
20309040701	SKSWD011007
20309040702	SKSWD011007 MS
20309040703	SKSWD011007 MSD
20309040705	SKSWD021007
20309040706	SKSWD031007
20309040707	SKSWD031007 DUP

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 except for Endosulfan sulfate associated with the confirmation column. 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 between the calculated and true amount for each of the pesticides and surrogates were within 25%.

5. BLANKS

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

Method Blank 117923

No constituents were detected above the laboratory-reporting limit. This blank corresponds to all samples extracted on 9/8/03.

6. SURROGATE SPIKES

Decachlorobiphenyl (DCB) and tetrachloro-m-xylene (TCX) surrogate spike recoveries were within the acceptance criteria (30%-150%) for all samples.

7. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample SKSWD011007 as used for the matrix spike/matrix spike duplicate sample. The MS/MSD percent recoveries were within the acceptance criteria with the exception of gamma-BHC and Endrin. The RPD between the MS and MSD were within the acceptance criteria. As per the National Functional Guidelines, no action is taken on MS/MSD data alone.

8. PESTICIDE CLEANUP CHECKS

Recoveries of all pesticides and surrogates were within 80-120% for the lot of Florisil cartridges utilized for pesticide cleanup. The results have been previously qualified therefore further data qualification is not required.

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.

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

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.

Report Date 09/19/2003

GCAL Report 203090407

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

Customer Earth Tech

Project Skinner Landfill

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

CASE NARRATIVE

Client: Earth Tech **Report:** 20309040 7

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 GAS CHROMATOGRAPHY

In the Pesticide analysis, gamma-BHC (Lindane) and Endrin were outside of the control limits in the MS/MSD. This could be attributed to matrix interference.

METALS

Zinc is flagged as estimated for samples associated with prep batches 262086 and 262088 due to the fact that the percent difference between the original sample result and the serial dilution result is greater than ten. A chemical or physical interference is suspected.

In the ILM04.1 - CLP Metals analysis for prep batch 262086, the MS recovery was outside the control limits for Selenium and Thallium. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 74% for Selenium and 58% for Thallium. The LCS was above the upper control limit for Antimony. The Sample/Duplicate RPD for Zinc was outside the control limits

In the ILM04.1 - CLP Metals analysis for prep batch 262088, the MS recovery was outside the control limits for Antimony. The LCS recovery was within control limits. This indicates the analysis is in control and the sample is affected by matrix interference. A post-digestion spike was performed on the QC sample for this batch with a recovery of 109%. The LCS was above the upper control limit for Antimony.

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.

SCOTT A. BAILEY
OPERATIONS MANAGER
GCAL REPORT 203090407

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20309040701	SKSWD011007	Water	09/02/2003 12:15	09/04/2003 09:40
20309040702	SKSWD011007MS	Water	09/02/2003 12:20	09/04/2003 09:40
20309040703	SKSWD011007MSD	Water	09/02/2003 12:45	09/04/2003 09:40
20309040704	SKSWD011007DUP	Water	09/02/2003 12:45	09/04/2003 09:40
20309040705	SKSWD021007	Water	09/02/2003 14:00	09/04/2003 09:40
20309040706	SKSWD031007	Water	09/02/2003 14:20	09/04/2003 09:40
20309040707	SKSWD031007DUP	Water	09/02/2003 14:40	09/04/2003 09:40
20309040708	SKSWDTB1007	Water	09/02/2003 00:00	09/04/2003 09:40
20309040709	SKSWD011007(DISS)	Water	09/02/2003 12:15	09/04/2003 09:40
20309040710	SKSWD011007MS(DISS)	Water	09/02/2003 12:20	09/04/2003 09:40
20309040711	SKSWD011007DUP(DISS)	Water	09/02/2003 12:45	09/04/2003 09:40
20309040712	SKSWD021007(DISS)	Water	09/02/2003 14:00	09/04/2003 09:40
20309040713	SKSWD031007(DISS)	Water	09/02/2003 14:20	09/04/2003 09:40
20309040714	SKSWD031007DUP(DISS)	Water	09/02/2003 14:40	09/04/2003 09:40

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKSWD011007

Contract:

SAS No.: SDG No.: 203090407

Lab Sample ID: 20309040701

Lab File ID: 2030905/S5986

Date Collected: 09/02/03 Time: 1215

Date Received: 09/04/03

Date Analyzed: 09/05/03 Time: 1805

Dilution Factor: 1 Analyst: HJL

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0
75-34-3	1,1-Dichloroethane	1.0	U	1.0
75-35-4	1,1-Dichloroethene	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
540-59-0	1,2-Dichloroethene	1.0	U	1.0
78-87-5	1,2-Dichloropropane	1.0	U	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
78-93-3	2-Butanone	5.0	U	5.0
591-78-6	2-Hexanone	5.0	U	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0
67-64-1	Acetone	5.0	U	5.0
71-43-2	Benzene	1.0	U	1.0
75-27-4	Bromodichloromethane	1.0	U	1.0
75-25-2	Bromoform	1.0	U	1.0
74-83-9	Bromomethane	1.0	U	1.0
75-15-0	Carbon disulfide	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
75-00-3	Chloroethane	1.0	U	1.0
67-66-3	Chloroform	1.0	U	1.0
74-87-3	Chloromethane	1.0	U	1.0
124-48-1	Dibromochloromethane	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0
100-41-4	Ethylbenzene	1.0	U	1.0
75-09-2	Methylene chloride	2.0	U	2.0
100-42-5	Styrene	1.0	U	1.0
127-18-4	Tetrachloroethene	1.0	U	1.0

10/23/03 MS

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SKSWD011007
Lab Code:	LA024 Case No.:	Contract:	
Matrix:	Water	SAS No.:	SDG No.: 203090407
Sample wt/vol:	25 Units: mL	Lab Sample ID:	20309040701
Level: (low/med)		Lab File ID:	2030905/S5986
% Moisture: not dec.		Date Collected:	09/02/03 Time: 1215
GC Column:	DB-624-30M ID: .53 (mm)	Date Received:	09/04/03
Instrument ID:	MSV0	Date Analyzed:	09/05/03 Time: 1805
Concentrated Extract Volume:	(µL)	Dilution Factor:	1 Analyst: HJL
Soil Aliquot Volume:	(µL)	Prep Method:	
		Analytical Method:	OLC02.1 - CLP Vo

CONCENTRATION UNITS: *ug/L*

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSWD011007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203090407

Matrix: Water Lab Sample ID: 20309040701

Sample wt/vol: Units: Lab File ID: 2030905/S5986

Level: (low/med) Date Collected: 09/02/03 Time: 1215

% Moisture: not dec. Date Received: 09/04/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 09/05/03 Time: 1805

Instrument ID: MSV0 Dilution Factor: 1 Analyst: HJL

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q	
1	7446-09-5	Sulfur dioxide	2.221	543		u

1-/23/03 MSC

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SKSWD021007
Lab Code:	LAC24 Case No.:	Contract:	
Matrix:	Water	SAS No.:	SDG No.: 203090407
Sample wt/vol:	25 Units mL	Lab Sample ID:	20309040705
Level: (low/med)		Lab File ID:	2030905/S5983
% Moisture: not dec.		Date Collected:	09/02/03 Time: 1400
GC Column:	DB-624-30M ID: .53 (mm)	Date Received:	09/04/03
Instrument ID:	MSV0	Date Analyzed:	09/05/03 Time: 1657
Concentrated Extract Volume:	(µL)	Dilution Factor:	1 Analyst: HJL
Soil Aliquot Volume:	(µL)	Prep Method:	
		Analytical Method:	OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0
75-34-3	1,1-Dichloroethane	1.0	U	1.0
75-35-4	1,1-Dichloroethene	1.0	U	1.0
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0
107-06-2	1,2-Dichloroethane	1.0	U	1.0
540-59-0	1,2-Dichloroethene	1.0	U	1.0
78-87-5	1,2-Dichloropropane	1.0	U	1.0
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0
78-93-3	2-Butanone	5.0	U	5.0
591-78-6	2-Hexanone	5.0	U	5.0
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0
67-64-1	Acetone	5.0	U	5.0
71-43-2	Benzene	1.0	U	1.0
75-27-4	Bromodichloromethane	1.0	U	1.0
75-25-2	Bromoform	1.0	U	1.0
74-83-9	Bromomethane	1.0	U	1.0
75-15-0	Carbon disulfide	1.0	U	1.0
56-23-5	Carbon tetrachloride	1.0	U	1.0
108-90-7	Chlorobenzene	1.0	U	1.0
75-00-3	Chloroethane	1.0	U	1.0
67-66-3	Chloroform	1.0	U	1.0
74-87-3	Chloromethane	1.0	U	1.0
124-48-1	Dibromochloromethane	1.0	U	1.0
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0
100-41-4	Ethylbenzene	1.0	U	1.0
75-09-2	Methylene chloride	2.0	U	2.0
100-42-5	Styrene	1.0	U	1.0
127-18-4	Tetrachloroethene	1.0	U	1.0

10/23/03 MR

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKSWD021007

Contract:

SAS No.: SDG No.: 203090407

Lab Sample ID: 20309040705

Lab File ID: 2030905/S5983

Date Collected: 09/02/03 Time: 1400

Date Received: 09/04/03

Date Analyzed: 09/05/03 Time: 1657

Dilution Factor: 1 Analyst: HJL

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

1E

VOLATILE ORGANIC ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

SKSWD021007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No: SAS No.: SDG No.: 203090407

Matrix: Water Lab Sample ID: 20309040705

Sample wt/vol: Units: Lab File ID: 2030905/S5983

Level: (low/med) Date Collected: 09/02/03 Time: 1400

% Moisture: not dec. Date Received: 09/04/03

GC Column: DB-624-30M D .53 (mm) Date Analyzed: 09/05/03 Time: 1657

Instrument ID: MSV0 Dilution Factor: 1 Analyst: HJL

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q	
1.	7446-09-5	Sulfur dioxide	2.234	465		u

1 = 123/03
M.L

FORM 1 VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKSWD031007

Contract:

SAS No.: SDG No.: 203090407

Lab Sample ID: 203090407O6

Lab File ID: 2030905/S5984

Date Collected: 09/02/03 Time: 1420

Date Received: 09/04/03

Date Analyzed: 09/05/03 Time: 1719

Dilution Factor: 1 Analyst: HJL

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone	5.0	U	5.0	R
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	5.0	U	5.0	R
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
75-15-0	Carbon disulfide	1.0	U	1.0	
56-23-5	Carbon tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
75-09-2	Methylene chloride	2.0	U	2.0	
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene	1.0	U	1.0	

10/23/03 [illegible]

FORM I VOA

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SKSWD031007
Lab Code:	LA024 Case No.:	Contract:	
Matrix:	Water	SAS No.:	SDG No.: 203090407
Sample wt/vol:	25 Units: mL	Lab Sample ID:	20309040706
Level: (low/med)		Lab File ID:	2030905/S5984
% Moisture: not dec.		Date Collected:	09/02/03 Time: 1420
GC Column:	DB-624-30M ID: .53 (mm)	Date Received:	09/04/03
Instrument ID:	MSV0	Date Analyzed:	09/05/03 Time: 1719
Concentraledl Extract Volume:	(µL)	Dilution Factor:	1 Analyst: HJL
Soil Aliquot Volume:	(µL)	Prep Method:	
		Analytical Method:	OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

FORM VOA

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSWD031007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203090407

Matrix: Water Lab Sample ID: 20309040706

Sample wt/vol: Units: Lab File ID: 2030905/S5984

Level: (low/med) Date Collected: 09/02/03 Time: 1420

% Moisture: not dec. Date Received: 09/04/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 09/05/03 Time: 1719

Instrument ID: MSV0 Dilution Factor: 1 Analyst: HJL

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	7446-09-5	Sulfur dioxide	2.387	2.5	

u

10/23/03

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSWD031007DUP

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

Matrix: Water | SAS No.: | SDG No.: 203090407

Sample wt/vol: 25 | Units: mL | Lab Sample ID: 20309040707

Level: (low/med) | Lab File ID: 2030905/S5985

% Moisture: not dec. | Date Collected: 09/02/03 | Time: 1440

GC Column: DB-624-30M | ID: .53 (mm) | Date Received: 09/04/03

Instrument ID: MSV0 | Date Analyzed: 09/05/03 | Time: 1742

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

Soil Aliquot Volume: (µL) | Prep Method:

CONCENTRATION UNITS: ug/L | Analytical Method: OLC02.1 - CLP Vo

CAS NO.	COMPOUND	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone	5.0	U	5.0	R
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	5.0	U	5.0	R
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
75-15-0	Carbon disulfide	1.0	U	1.0	
56-23-5	Carbon tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
75-09-2	Methylene chloride	2.0	U	2.0	
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene	1.0	U	1.0	

10/23/03 MM

FORM I VOA

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKSWD031007DUP

Contract:

SAS No.: SDG No.: 203090407

Lab Sample ID: 20309040707

Lab File ID: 2030905/S5985

Date Collected: 09/02/03 Time: 1440

Date Received: 09/04/03

Date Analyzed: 09/05/03 Time: 1742

Dilution Factor: 1 Analyst: RSP

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSWD031007DUP

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203090407

Matrix: Water Lab Sample ID: 20309040707

Sample wt/vol: Units: Lab File ID: 2030905/S5985

Level: (low/med) Date Collected: 09/02/03 Time: 1440

% Moisture: not dec. Date Received: 09/04/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 09/05/03 Time: 1742

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.	7446-09-5	Sulfur dioxide	2.32	26.2		u

10/23/03
MSL

FORM 1 VOA-TIC

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL

Lab Code: LA024 Case No.:

Matrix: Water

Sample wt/vol: 25 Units: mL

Level: (low/med)

% Moisture: not dec.

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

Instrument ID: MSV0

Concentratedl Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Sample ID: SKSWDTB1007

Contract:

SAS No.: SDG No.: 203090407

Lab Sample ID: 20309040708

Lab File ID: 2030905/S5978

Date Collected: 09/02/03 Time: 0000

Date Received: 09/04/03

Date Analyzed: 09/05/03 Time: 1502

Dilution Factor: 1 Analyst: HJL

Prep Method:

Analytical Method: OLC02.1 - CLP Vo

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL	
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	
79-00-5	1,1,2-Trichloroethane	1.0	U	1.0	
75-34-3	1,1-Dichloroethane	1.0	U	1.0	
75-35-4	1,1-Dichloroethene	1.0	U	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	
107-06-2	1,2-Dichloroethane	1.0	U	1.0	
540-59-0	1,2-Dichloroethene	1.0	U	1.0	
78-87-5	1,2-Dichloropropane	1.0	U	1.0	
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	
78-93-3	2-Butanone	3.8	J	5.0	J
591-78-6	2-Hexanone	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	
67-64-1	Acetone	5.0	U	5.0	R
71-43-2	Benzene	1.0	U	1.0	
75-27-4	Bromodichloromethane	1.0	U	1.0	
75-25-2	Bromoform	1.0	U	1.0	
74-83-9	Bromomethane	1.0	U	1.0	
75-15-0	Carbon disulfide	1.0	U	1.0	
56-23-5	Carbon tetrachloride	1.0	U	1.0	
108-90-7	Chlorobenzene	1.0	U	1.0	
75-00-3	Chloroethane	1.0	U	1.0	
67-66-3	Chloroform	1.0	U	1.0	
74-87-3	Chloromethane	1.0	U	1.0	
124-48-1	Dibromochloromethane	1.0	U	1.0	
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	
100-41-4	Ethylbenzene	1.0	U	1.0	
75-09-2	Methylene chloride	4.1		2.0	
100-42-5	Styrene	1.0	U	1.0	
127-18-4	Tetrachloroethene	1.0	U	1.0	

10/23/03 MR

VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name:	GCAL	Sample ID:	SKSWDTB1007
Lab Code:	LA024	Case No.:	
Matrix:	Water	Contract:	
Sample wt/vol:	25 Units: mL	SAS No.:	SDG No.: 203090407
Level: (low/med)		Lab Sample ID:	20309040708
% Moisture: not dec.		Lab File ID:	2030905/S5978
GC Column:	DB-624-30M ID: .53 (mm)	Date Collected:	09/02/03 Time: 0000
Instrument ID:	MSV0	Date Received:	09/04/03
Concentrated Extract Volume:	(µL)	Date Analyzed:	09/05/03 Time: 1502
Soil Aliquot Volume:	(µL)	Dilution Factor:	1 Analyst: HJL
		Prep Method:	
CONCENTRATION UNITS: ug/L		Analytical Method:	OLC02.1 - CLP Vo

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

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.
SKSWDTB1007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203090407

Matrix: Water Lab Sample ID: 20309040708

Sample wt/vol: Units: Lab File ID: 2030905/S5978

Level: (low/med) Date Collected: 09/02/03 Time: 0000

% Moisture: not dec. Date Received: 09/04/03

GC Column: DB-624-30M ID: .53 (mm) Date Analyzed: 09/05/03 Time: 1502

Instrument ID: MSV0 Dilution Factor: 1 Analyst: HJL

Soil Extract Volume: (µL)

Soil Aliquot Volume: (µL)

Number TICs Found: 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	7446-09-5	Sulfur dioxide	2.244	248	

1B

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

Concentrated Sample Volume 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 2 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID SKSWD011007

Contract

SAS No. SDG No.: 203090407

Lab Sample ID 20309040701 Lab File ID: 2030909/T

Date Collected: 09/02/03 Time: 1215

Date Received 09/04/03

Date Analyzed 09/09/03 Time: 1823

Dilution Factor 1 Analyst: RLW

Prep Method:

Analytical Method OLMO 4.2

Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

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

10/23/03

FORM SV-1

1B

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

Concentrated Sample Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 2 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD011007

Contract:

SAS No.: SDG No.: 203090407

Lab Sample ID: 20309040701 Lab File ID: 2030909/T

Date Collected: 09/02/03 Time: 1215

Date Received: 09/04/03

Date Analyzed: 09/09/03 Time: 1823

Dilution Factor: 1 Analyst: RLW

Prep Method:

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
101-55-3	4-Bromophenyl-phenylether	10.0	U	10.0
85-68-7	Butylbenzylphthalate	10.0	U	10.0
86-74-8	Carbazole	10.0	U	10.0
218-01-9	Chrysene	10.0	U	10.0
84-74-2	Di-n-butylphthalate	10 ~~1.92~~	J	10.0
117-84-0	Di-n-octylphthalate	10.0	U	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	10.0
132-64-9	Dibenzofuran	10.0	U	10.0
84-66-2	Diethylphthalate	10.0	U	10.0
131-11-3	Dimethyl-phthalate	10.0	U	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	10.0
206-44-0	Fluoranthene	10.0	U	10.0
86-73-7	Fluorene	10.0	U	10.0
118-74-1	Hexachlorobenzene	10.0	U	10.0
87-68-3	Hexachlorobutadiene	10.0	U	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	10.0
67-72-1	Hexachloroethane	10.0	U	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	10.0
78-59-1	Isophorone	10.0	U	10.0
91-20-3	Naphthalene	10.0	U	10.0
100-01-6	4-Nitroaniline	25.0	U	25.0
98-95-3	Nitrobenzene	10.0	U	10.0
100-02-7	4-Nitrophenol	25.0	U	25.0
87-86-5	Pentachlorophenol	25.0	U	25.0
85-01-8	Phenanthrene	10.0	U	10.0
108-95-2	Phenol	10.0	U	10.0
129-00-0	Pyrene	10.0	U	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	10.0
86-30-6	N-Nitrosodiphenylamine	10.0	U	10.0
95-48-7	o-Cresol	10.0	U	10.0

10/23/03 MW

FORM I SV-1

SEMI-VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	GCAL	Sample ID:	SKSWD011007
Lab Code:	LA024 Case No:	Contract:	
Matrix:	Water	SAS No.:	SDG No.: 203090407
Sample wt/vol:	Units	Lab Sample ID:	20309040701
Level: (low/med)		Lab File ID:	2030909/T4782
% Moisture: not dec.		Date Collected:	09/02/03 Time: 1215
GC Column:	DB-5MS-30M ID: .25 (mm)	Date Received:	09/04/03
Instrument ID:	MSSV3	Date Analyzed:	09/09/03 Time: 1823
		Dilution Factor:	1 Analyst: RLW

Number TICs Found : *1*

CONCENTRATION UNITS

	CAS NO.	COMPOUND	RESULT	EST. CONC.	Q
1	301-02-0	9-Octadecenamide (Z)-	13.015	29.2	

1B

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

Concentrated Sample Volume: 1000 (µL)

Soil Aliquot Volume: (µL)

Injection Volume: 2 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD021007

Contract:

SAS No.: SDG No.: 203090407

Lab Sample ID: 20309040705 Lab File ID: 2030909/T

Date Collected: 09/02/03 Time: 1400

Date Received: 09/04/03

Date Analyzed: 09/09/03 Time: 1939

Dilution Factor: 1 Analyst: RLW

Prep Method:

Analytical Method: OLMO 4.2

Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	10.0
91-58-7	2-Chloronaphthalene	10.0	U	10.0
95-57-8	2-Chlorophenol	10.0	U	10.0
91-57-6	2-Methylnaphthalene	10.0	U	10.0
88-74-4	2-Nitroaniline	25.0	U	25.0
88-75-5	2-Nitrophenol	10.0	U	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	10.0
99-09-2	3-Nitroaniline	25.0	U	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	10.0
106-47-8	4-Chloroaniline	10.0	U	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	10.0
83-32-9	Acenaphthene	10.0	U	10.0
208-96-8	Acenaphthylene	10.0	U	10.0
120-12-7	Anthracene	10.0	U	10.0
56-55-3	Benzo(a)anthracene	10.0	U	10.0
50-32-8	Benzo(a)pyrene	10.0	U	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10 ~~1.51~~	J	10.0

10/23/03

FORM I SV-1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL		Sample ID: SKSWD021007	
Lab Code: LA024	Case No:	Contract:	
Matrix: Water		SAS No:	SDG No.: 203090407
Sample wt/vol: 1000	Units: mL	Lab Sample ID: 20309040705	Lab File ID: 2030909/T
Level: (low/med)		Date Collected: 09/02/03	Time: 1400
% Moisture:	decanted: (Y/N)	Date Received: 09/04/03	
GC Column: DB-5MS-30M	ID: 25 (mm)	Date Analyzed: 09/09/03	Time: 1939
Concentrated Sample Volume: 1000	(µL)	Dilution Factor: 1	Analyst: RLW
Soil Aliquot Volume:	(µL)	Prep Method:	
Injection Volume: 2	(µL)	Analytical Method: OLMO 4.2	
GPC Cleanup: (Y/N) N	pH:	Instrument ID: MSSV3	

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
101-55-3	4-Bromophenyl-phenylether	10.0	U	10.0
85-68-7	Butylbenzylphthalate	10.0	U	10.0
86-74-8	Carbazole	10.0	U	10.0
218-01-9	Chrysene	10.0	U	10.0
84-74-2	Di-n-butylphthalate	10 [illegible]	J	10.0
117-84-0	Di-n-octylphthalate	10.0	U	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	10.0
132-64-9	Dibenzofuran	10.0	U	10.0
84-66-2	Diethylphthalate	10.0	U	10.0
131-11-3	Dimethyl-phthalate	10.0	U	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	10.0
206-44-0	Fluoranthene	10.0	U	10.0
86-73-7	Fluorene	10.0	U	10.0
118-74-1	Hexachlorobenzene	10.0	U	10.0
87-68-3	Hexachlorobutadiene	10.0	U	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	10.0
67-72-1	Hexachloroethane	10.0	U	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	10.0
78-59-1	Isophorone	10.0	U	10.0
91-20-3	Naphthalene	10.0	U	10.0
100-01-6	4-Nitroaniline	25.0	U	25.0
98-95-3	Nitrobenzene	10.0	U	10.0
100-02-7	4-Nitrophenol	25.0	U	25.0
87-86-5	Pentachlorophenol	25.0	U	25.0
85-01-8	Phenanthrene	10.0	U	10.0
108-95-2	Phenol	10.0	U	10.0
129-00-0	Pyrene	10.0	U	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	10.0
86-30-6	N-Nitrosodiphenylamine	10.0	U	10.0
95-48-7	o-Cresol	10.0	U	10.0

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MK

FORM 1 SV-1

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Instrument ID: MSSV3

Sample ID: SKSWD021007
Contract:
SAS No.: SDG No.: 203090407
Lab Sample ID: 20309040705
Lab File ID: 2030909/T4785
Date Collected: 09/02/03 Time: 1400
Date Received: 09/04/03
Date Analyzed: 09/09/03 Time: 1939
Dilution Factor: 1 Analyst: RLW

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RESULT	EST. CONC.	Q
1.	301-02-0	9-Octadecenamide, (Z)-	13.014	23	

SEMIVOLATILE 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: DB-5MS-30M ID: 25 (mm)
Concentrated Sample Volume: 1000 (µL)
Soil Aliquot Volume: (µL)
Injection Volume: 2 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD031007
Contract:
SAS No: SDG No.: 203090407
Lab Sample ID: 20309040706 Lab File ID: 2030909/T
Date Collected: 09/02/03 Time: 1420
Date Received: 09/04/03
Date Analyzed: 09/09/03 Time: 2004
Dilution Factor: 1 Analyst: RLW
Prep Method:
Analytical Method: OLMO 4.2
Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

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

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10/23/03

FORM

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: SKSWD031007
Lab Code: LA024 Case No.:
Contract:
Matrix: Water
SAS No.: SDG No.: 203090407
Sample wt/vol: 1000 Units: mL
Lab Sample ID: 20309040706 Lab File ID: 2030909/T
Level: (low/med)
Date Collected: 09/02/03 Time: 1420
% Moisture: decanted: (Y/N)
Date Received: 09/04/03
GC Column: DB-5MS-30M ID: .25 (mm)
Date Analyzed: 09/09/03 Time: 2004
Concentrated Sample Volume: 1000 (µL)
Dilution Factor: 1 Analyst: RLW
Soil Aliquot Volume: (µL)
Prep Method:
Injection Volume: 2 (µL)
Analytical Method: OLMO 4.2
GPC Cleanup: (Y/N) N pH:
Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
101-55-3	4-Bromophenyl-phenylether	10.0	U	10.0
85-68-7	Butylbenzylphthalate	10.0	U	10.0
86-74-8	Carbazole	10.0	U	10.0
218-01-9	Chrysene	10.0	U	10.0
84-74-2	Di-n-butylphthalate	10 ~~1.75~~	J	10.0
117-84-0	Di-n-octylphthalate	10.0	U	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	10.0
132-64-9	Dibenzofuran	10.0	U	10.0
84-66-2	Diethylphthalate	10.0	U	10.0
131-11-3	Dimethyl-phthalate	10.0	U	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	10.0
206-44-0	Fluoranthene	10.0	U	10.0
86-73-7	Fluorene	10.0	U	10.0
118-74-1	Hexachlorobenzene	10.0	U	10.0
87-68-3	Hexachlorobutadiene	10.0	U	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	10.0
67-72-1	Hexachloroethane	10.0	U	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	10.0
78-59-1	Isophorone	10.0	U	10.0
91-20-3	Naphthalene	10.0	U	10.0
100-01-6	4-Nitroaniline	25.0	U	25.0
98-95-3	Nitrobenzene	10.0	U	10.0
100-02-7	4-Nitrophenol	25.0	U	25.0
87-86-5	Pentachlorophenol	25.0	U	25.0
85-01-8	Phenanthrene	10.0	U	10.0
108-95-2	Phenol	10.0	U	10.0
129-00-0	Pyrene	10.0	U	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	10.0
86-30-6	N-Nitrosodiphenylamine	10.0	U	10.0
95-48-7	o-Cresol	10.0	U	10.0

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL		Sample ID: SKSWD031007	
Lab Code: LA024	Case No:	Contract:	
Matrix: Water		SAS No:	SDG No.: 203090407
Sample wt/vol:	Units:	Lab Sample ID: 20309040706	
Level: (low/med)		Lab File ID: 2030909/T4786	
% Moisture: not dec.		Date Collected: 09/02/03	Time: 1420
GC Column: DB-5MS-30M	ID: .25 (mm)	Date Received: 09/04/03	
Instrument ID: MSSV3		Date Analyzed: 09/09/03	Time: 2004
		Dilution Factor: 1	Analyst: RLW

Number TICs Found : 1

CONCENTRATION UNITS

	CAS NO.	COMPOUND	RESULT	EST. CONC.	Q
1	301-02-0	9-Octadecenamide, (Z)-	[illegible]	24.4	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Sample ID: SKSWD031007DUP
Lab Code: LA024 Case No.:
Contract:
Matrix: Water
SAS No.: SDG No.: 203090407
Sample wt/vol: 1000 Units: mL
Lab Sample ID: 20309040707 Lab File ID: 2030909/T
Level: (low/med)
Date Collected: 09/02/03 Time: 1440
% Moisture: decanted: (Y/N)
Date Received: 09/04/03
GC Column: DB-5MS-30M ID: .25 (mm)
Date Analyzed: 09/09/03 Time: 2029
Concentrated Sample Volume: 1000 (µL)
Dilution Factor: 1 Analyst: RLW
Soil Aliquot Volume: (µL)
Prep Method:
Injection Volume: 2 (µL)
Analytical Method: OLMO 4.2
GPC Cleanup: (Y/N) N pH:
Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
95-95-4	2,4,5-Trichlorophenol	10.0	U	10.0
88-06-2	2,4,6-Trichlorophenol	10.0	U	10.0
120-83-2	2,4-Dichlorophenol	10.0	U	10.0
51-28-5	2,4-Dinitrophenol	25.0	U	25.0
121-14-2	2,4-Dinitrotoluene	10.0	U	10.0
606-20-2	2,6-Dinitrotoluene	10.0	U	10.0
91-58-7	2-Chloronaphthalene	10.0	U	10.0
95-57-8	2-Chlorophenol	10.0	U	10.0
91-57-6	2-Methylnaphthalene	10.0	U	10.0
88-74-4	2-Nitroaniline	25.0	U	25.0
88-75-5	2-Nitrophenol	10.0	U	10.0
91-94-1	3,3'-Dichlorobenzidine	10.0	U	10.0
99-09-2	3-Nitroaniline	25.0	U	25.0
534-52-1	2-Methyl-4,6-dinitrophenol	25.0	U	25.0
59-50-7	4-Chloro-3-methylphenol	10.0	U	10.0
106-47-8	4-Chloroaniline	10.0	U	10.0
7005-72-3	4-Chlorophenyl-phenylether	10.0	U	10.0
106-44-5	4-Methylphenol (p-Cresol)	10.0	U	10.0
83-32-9	Acenaphthene	10.0	U	10.0
208-96-8	Acenaphthylene	10.0	U	10.0
120-12-7	Anthracene	10.0	U	10.0
56-55-3	Benzo(a)anthracene	10.0	U	10.0
50-32-8	Benzo(a)pyrene	10.0	U	10.0
205-99-2	Benzo(b)fluoranthene	10.0	U	10.0
191-24-2	Benzo(g,h,i)perylene	10.0	U	10.0
207-08-9	Benzo(k)fluoranthene	10.0	U	10.0
111-91-1	Bis(2-Chloroethoxy)methane	10.0	U	10.0
111-44-4	Bis(2-Chloroethyl)ether	10.0	U	10.0
108-60-1	bis(2-Chloroisopropyl)ether	10.0	U	10.0
117-81-7	bis(2-ethylhexyl)phthalate	10 ~~1.06~~	J	10.0

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL | Sample ID: SKSWD031007DUP

Lab Code: LA024 | Case No: | Contract:

Matrix: Water | SAS No: | SDG No.: 203090407

Sample wt/vol: 1000 Units mL | Lab Sample ID: 20309040707 | Lab File ID: 2030909/T

Level: (low/med) | Date Collected: 09/02/03 | Time: 1440

% Moisture: | decanted: (Y/N) | Date Received: 09/04/03

GC Column: DB-5MS-30M ID: .25 (mm) | Date Analyzed: 09/09/03 | Time: 2029

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

Soil Aliquot Volume: (µL) | Prep Method:

Injection Volume: 2 (µL) | Analytical Method: OLMO 4.2

GPC Cleanup: (Y/N) N pH: | Instrument ID: MSSV3

CONCENTRATION UNITS: ug/L

CAS NO.	COMPOUND	RESULT	Q	RL
101-55-3	4-Bromophenyl-phenylether	10.0	U	10.0
85-68-7	Butylbenzylphthalate	10.0	U	10.0
86-74-8	Carbazole	10.0	U	10.0
218-01-9	Chrysene	10.0	U	10.0
84-74-2	Di-n-butylphthalate	~~10.5~~	J	10.0
117-84-0	Di-n-octylphthalate	10.0	U	10.0
53-70-3	Dibenz(a,h)anthracene	10.0	U	10.0
132-64-9	Dibenzofuran	10.0	U	10.0
84-66-2	Diethylphthalate	10.0	U	10.0
131-11-3	Dimethyl-phthalate	10.0	U	10.0
105-67-9	2,4-Dimethylphenol	10.0	U	10.0
206-44-0	Fluoranthene	10.0	U	10.0
86-73-7	Fluorene	10.0	U	10.0
118-74-1	Hexachlorobenzene	10.0	U	10.0
87-68-3	Hexachlorobutadiene	10.0	U	10.0
77-47-4	Hexachlorocyclopentadiene	10.0	U	10.0
67-72-1	Hexachloroethane	10.0	U	10.0
193-39-5	Indeno(1,2,3-cd)pyrene	10.0	U	10.0
78-59-1	Isophorone	10.0	U	10.0
91-20-3	Naphthalene	10.0	U	10.0
100-01-6	4-Nitroaniline	25.0	U	25.0
98-95-3	Nitrobenzene	10.0	U	10.0
100-02-7	4-Nitrophenol	25.0	U	25.0
87-86-5	Pentachlorophenol	25.0	U	25.0
85-01-8	Phenanthrene	10.0	U	10.0
108-95-2	Phenol	10.0	U	10.0
129-00-0	Pyrene	10.0	U	10.0
621-64-7	N-Nitroso-di-n-propylamine	10.0	U	10.0
86-30-6	N-Nitrosodiphenylamine	10.0	U	10.0
95-48-7	o-Cresol	10.0	U	10.0

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FORM SV-1

10/23/03 MR

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GCAL
Lab Code: LA024 Case No.:
Matrix: Water
Sample wt/vol: Units:
Level: (low/med)
% Moisture: not dec.
GC Column: DB-5MS-30M ID: .25 (mm)
Instrument ID: MSSV3

Sample ID: SKSWD031007DUP
Contract:
SAS No.: SDG No.: 203090407
Lab Sample ID: 20309040707
Lab File ID: 2030909/T4787
Date Collected: 09/02/03 Time: 1440
Date Received: 09/04/03
Date Analyzed: 09/09/03 Time: 2029
Dilution Factor: 1 Analyst: RLW

Number TICs Found : 1

CONCENTRATION UNITS:

	CAS NO.	COMPOUND	RESULT	EST. CONC.	Q
1.	301-02-0	9-Octadecenamide, (Z)-	13.016	21	

1D

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: GCAL
Lab Code: LAC24 Case No.:
Matrix: Water
Sample wt/vol: 1000 Units mL
Level (low/med)
% Moisture: decanted (Y/N)
GC Column: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD011007
Contract:
SAS No.: SDG No.: 203090407
Lab Sample ID: 20309040701
Date Collected: 09/02/03 Time: 1215
Date Received: 09/04/03
Date Analyzed: 09/10/03 Time: 0048
Dilution Factor: 1 Analyst: DLB
Prep Method:
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A
Lab File ID: 2030909/SV8019

CONCENTRATION UNITS: ug/L

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

1D

SEMIVOLATILE 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: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD021007

Contract:

SAS No.: SDG No.: 203090407

Lab Sample ID: 20309040705

Date Collected: 09/02/03 Time: 1400

Date Received: 09/04/03

Date Analyzed: 09/10/03 Time: 0230

Dilution Factor: 1 Analyst: DLB

Prep Method:

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A

Lab File ID: 2030909/SV8022

CONCENTRATION UNITS: ug/L

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

SEMIVOLATILE 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: RTX-1701-3 ID: .53 (mm)
Concentrated Extract Volume: 1000 (µL)
Injection Volume: 1.0 (µL)
GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD031007
Contract
SAS No.: SDG No.: 203090407
Lab Sample ID: 20309040706
Date Collected: 09/02/03 Time: 1420
Date Received: 09/04/03
Date Analyzed: 09/10/03 Time: 0305
Dilution Factor: 1 Analyst: DLB
Prep Method:
Analytical Method: OLMO 4.2
Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A
Lab File ID: 2030909/SV8023

CONCENTRATION UNITS: ug/L

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

1D

SEMIVOLATILE 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: RTX-1701-3 ID: .53 (mm)

Concentrated Extract Volume: 1000 (µL)

Injection Volume: 1.0 (µL)

GPC Cleanup: (Y/N) N pH:

Sample ID: SKSWD031007DUP

Contract:

SAS No.: SDG No.: 203090407

Lab Sample ID: 20309040707

Date Collected: 09/02/03 Time: 1440

Date Received: 09/04/03

Date Analyzed: 09/10/03 Time: 0339

Dilution Factor: 1 Analyst: DLB

Prep Method:

Analytical Method: OLMO 4.2

Sulfur Cleanup: (Y/N) N Instrument ID: GCS8A

Lab File ID: 2030909/SV8024

CONCENTRATION UNITS: ug/L

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

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: GCAL Contract: _____

Lab Code: LA024 Case No.: _____ SAS No.: _____ SDG No.: 203090407

SOW No.: _____

EPA Sample No.	Lab Sample ID.
SKSWD011007	20309040701
SKSWD011007MS	20309040702
SKSWD011007DUP	20309040704
SKSWD021007	20309040705
SKSWD031007	20309040706
SKSWD031007DUP	20309040707
SKSWD011007(DISS)	20309040709
SKSWD011007MS(DISS)	20309040710
SKSWD011007DUP(DISS)	20309040711
SKSWD021007(DISS)	20309040712
SKSWD031007(DISS)	20309040713
SKSWD031007DUP(DISS)	20309040714

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: Scott Bailey Name: Scott Bailey

Date: 5/23/03 Title: Operations Manager

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD011007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203090407

Matrix: (soil / water) Water Lab Sample ID: 20309040701

Level: (low / med) Date Received: 09/04/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	21.7	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	0.8	U		P	
7440-50-8	Copper	24.0	B		P	
7439-89-6	Iron	72.2	B		P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.4	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U	N	P	UJ
7440-66-6	Zinc	91.1		*,E	P	J
57-12-5	Cyanide	3.0	U		AS	

10/28/03
mm

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

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD011007DUP

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203090407

Matrix (soil / water) Water Lab Sample ID: 20309040704

Level: (low / med) Date Received: 09/04/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	21.7	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	0.8	U		P	
7440-50-8	Copper	17.9	B		P	
7439-89-6	Iron	79.1	B		P	
7439-92-1	Lead	1.5	J		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	1.2	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U	N	P	UJ
7440-66-6	Zinc	65.1		*,E	P	J
57-12-5	Cyanide	3.0	U		AS	

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

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD021007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203090407

Matrix: (soil / water) Water Lab Sample ID: 20309040705

Level: (low / med) Date Received: 09/04/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	4.0	B		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	28.4	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	0.8	U		P	
7440-50-8	Copper	11.7	B		P	
7439-89-6	Iron	17.4	B		P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	2.4	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U	N	P	UJ
7440-66-6	Zinc	30.0		*,E	P	J
57-12-5	Cyanide	3.0	U		AS	

10/22/03 MC

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.

SKSWD031007

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203090407

Matrix: (soil / water) Water Lab Sample ID: 20309040706

Level: (low / med) Date Received: 09/04/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	J		P	
7440-38-2	Arsenic	2.9	J		P	
7440-39-3	Barium	29.0	B		P	
7440-41-7	Beryllium	0.1	J		P	
7440-43-9	Cadmium	0.2	J		P	
7440-47-3	Chromium	0.8	J		P	
7440-50-8	Copper	8.6	B		P	
7439-89-6	Iron	3360			P	
7439-92-1	Lead	1.5	J		P	
7439-97-6	Mercury	0.1	J		AV	
7440-02-0	Nickel	4.2	B		P	
7782-49-2	Selenium	4.4	J	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	J	N	P	UJ
7440-66-6	Zinc	42.9		*,E	P	J
57-12-5	Cyanide	3.0	J		AS	

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

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD031007DUP

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203090407

Matrix: (soil / water) Water Lab Sample ID: 20309040707

Level: (low / med) Date Received: 09/04/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M	
7440-36-0	Antimony	3.7	U		P	
7440-38-2	Arsenic	2.9	U		P	
7440-39-3	Barium	25.1	B		P	
7440-41-7	Beryllium	0.1	U		P	
7440-43-9	Cadmium	0.2	U		P	
7440-47-3	Chromium	0.8	U		P	
7440-50-8	Copper	5.6	B		P	
7439-89-6	Iron	2500			P	
7439-92-1	Lead	1.5	U		P	
7439-97-6	Mercury	0.1	U		AV	
7440-02-0	Nickel	3.2	B		P	
7782-49-2	Selenium	4.4	U	N	P	UJ
7440-22-4	Silver	0.4	U		P	
7440-28-0	Thallium	2.6	U	N	P	UJ
7440-66-6	Zinc	42.7		*,E	P	J
57-12-5	Cyanide	3.0	U		AS	

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

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD011007(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203090407

Matrix (soil / water): Water Lab Sample ID: 20309040709

Level: (low / med) Date Received: 09/04/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	J	N	P
7440-38-2	Arsenic	2.9	J		P
7440-39-3	Barium	20.8	B		P
7440-41-7	Beryllium	0.1	J		P
7440-43-9	Cadmium	0.2	J		P
7440-47-3	Chromium	0.8	U		P
7440-50-8	Copper	5.1	B		P
7439-89-6	Iron	14.1	U		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.5	B		P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	48.0		E	P

J

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

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD011007DUP(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203090407

Matrix: (soil / water) Water Lab Sample ID: 20309040711

Level: (low / med) Date Received: 09/04/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U	N	P
7440-38-2	Arsenic	2.9	U		P
7440-39-3	Barium	22.1	B		P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	0.8	U		P
7440-50-8	Copper	2.4	B		P
7439-89-6	Iron	14.1	U		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.5	B		P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	49.8		E	P

J

10/28/03
MK

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

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD021007(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203090407

Matrix (soil / water) Water Lab Sample ID: 20309040712

Level: (low / med) Date Received: 09/04/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U	N	P
7440-38-2	Arsenic	2.9	U		P
7440-39-3	Barium	29.1	B		P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	0.8	U		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	14.1	U		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	2.3	B		P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	23.6		E	P

J

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.

SKSWD031007(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203090407

Matrix: (soil / water) Water Lab Sample ID: 20309040713

Level: (low / med) Date Received: 09/04/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U	N	P
7440-38-2	Arsenic	2.9	U		P
7440-39-3	Barium	19.1	B		P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	0.8	U		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	14.1	U		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.1	B		P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	19.0	B	E	P

J
10/28/03
MEL

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

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SKSWD031007DUP(DISS)

Lab Name: GCAL Contract:

Lab Code: LA024 Case No.: SAS No.: SDG No.: 203090407

Matrix (soil / water) Water Lab Sample ID: 20309040714

Level: (low / med) Date Received: 09/04/03

% Solids:

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

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	3.7	U	N	P
7440-38-2	Arsenic	2.9	U		P
7440-39-3	Barium	15.4	B		P
7440-41-7	Beryllium	0.1	U		P
7440-43-9	Cadmium	0.2	U		P
7440-47-3	Chromium	0.8	U		P
7440-50-8	Copper	1.2	U		P
7439-89-6	Iron	14.1	U		P
7439-92-1	Lead	1.5	U		P
7439-97-6	Mercury	0.1	U		AV
7440-02-0	Nickel	1.1	B		P
7782-49-2	Selenium	4.4	U		P
7440-22-4	Silver	0.4	U		P
7440-28-0	Thallium	2.6	U		P
7440-66-6	Zinc	21.7		E	P

J

10/28/03 pc

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

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

GCAL

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

CHAIN OF CUSTODY RECORD

Lab use only: Client Name	Client #	Workorder #	Due Date
Earth Tech	4342	203090407	9-18-03

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

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

P.O. Number: 54280
Project Name/Number: Skinner Landfill - 3 qtr - 2003
Sampled By: Pat Higgins

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	PCB's	Pesticides	Total Metals	Dissolved Metals	Cyanide	Remarks	Lab ID
W	9/2/03	12:15		X	SKSWD01 1007	Various	10	X	X	X	X	X	X	X	See tables	9/4 -01
		12:20			SKSWD01MS 1007		10		X	X	X	X	X	X	7 (TCL) and	-02
		12:45			SKSWD01MSD 1007		3								6 (TAL) of	-03
		1400			SKSWD02 1007										the final	-05
		1420			SKSWD03 1007										version of	-06
		1440			SKSWD03 Dup. 1007										The QAM	-07
					SKSWDTB 1007										LTP Plan	-08
															for analyte	
															list	
															Standard	
															Turnaround	

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	FED EX	9/3/03	
Fed Ex. 7798 8700 4320	Karla Hardel	9-4-03	0940
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

Note:

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

WHITE CLIENT FINAL REPORT — CANARY LABORATORY — PINK: CLIENT

AL-96 1-99

000321

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 (Client Name) | 4342 (Client #) | 2030904 (Workorder #) | 1-18-03 (Due Date)

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

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

P.O. Number: 542900.01
Project Name/Number: Shinner Landfill - 3 Qtr. 2003
Sampled By: Pat Higgins

Analytical Requests & Method

Matrix[1]	Date	Time (2400)	Comp	Grab	Sample Description	Preservatives	No Containers	Volatiles	Semi-volatiles	PCB	Pesticides	Total Metals	Dissolved Metals	Cyanide	Remarks: (DISS)	Lab ID
9/2/03	9/2/03	1235		X	SKSWD01 MSD 1007	Various	7	X	X	X	X	X	X	X	See tables 7 (TCL) 12 8 (TAL) of the final version of the OIM LTP Plan for the analyte lists	9 4 03, 04 -05
W	9/2/03	1400		X	SKSWD02 1007	↓	7	X	X	X	X	X	X	X		

Standard Turnaround

Lab use only:
Custody Seal
used [X] yes [ ] no
in tact [X] yes [ ] no
Temperature °C 6

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

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Pat Higgins	FED EX	9/3/03	
Fed EX - 7918 88704300	Dana Fordel	9-4-03	0944

Note:

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

000422