APPENDIX 5.7A
Landfill Gas Laboratory Reports and Chain of Custody Documentation

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

June 11, 2004

STL LOT NUMBER: **E4E260223**
PO/CONTRACT: 01203520.00

Raymond Huff
SCS Engineers
3711 Long Beach Boulevard
Ninth Floor
Long Beach, CA 90807-3315

Dear Mr. Huff,

This report contains the analytical results for the four samples received under chain of custody by STL Los Angeles on May 25, 2004. These samples are associated with your Mission Bay LF project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is E87652.

Any matrix related anomaly is footnoted within the report. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page.

Preliminary results were sent via facsimile on June 7, 2004.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000036 pages.

CASE NARRATIVE

The chain of custody was not filled out completely. The laboratory logged the samples per your attached instruction.

If you have any questions, please feel free to call me at (714) 258-8610.

Sincerely,

Marisol Tabirara

Marisol Tabirara
Project Manager

cc: Project File

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: SCS Engineers	Project Manager: Ray Huff	Date: 5/25/04	Chain of Custody Number: 131470
Address: 8799 Balboa Ave #290	Telephone Number (Area Code)/Fax Number: (562) 426-9544 / 562-427-0805	Lab Number: E4E260223	Page 1 of 1
City: San Diego; State: CA; Zip Code: 92123	Site Contact: K. Stackpole	Lab Contact:	Analysis (Attach list if more space is needed)
Project Name and Location (State): Mission Bay Landfill (CA)	Carrier/Waybill Number:		Special Instructions/ Conditions of Receipt
Contract/Purchase Order/Quote No.: 01203520.00			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	
MB1-LfG	5/25/04	14:25	X											
MB1-Sur	⊥	14:10	X											

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other_____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: Karen Stackpole	5/25/04	14:50	1. Received By: [signature]	5/25/04	1450
2. Relinquished By: [signature]	5/25/04	1715	2. Received By: Alanna Takizawa	5/25/04	1715
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

000003

Tabirara, Sonia

From: Ray Huff [RHuff@scsengineers.com]
Sent: Wednesday, May 26, 2004 9:58 AM
To: Tabirara, Sonia
Cc: 'Gabrielle Fourie'; kstackpole@scsengineers.com
Subject: MBLF Sample analysis

Sonja,

Samples from the MBLF project should be analyzed for the following constituents:

1. TO15 (38 compounds) = $195
Note: Dichlorobenzenes are broken down into 1,2-DCB, 1-3-DCB, and 1-4 DCB; Xylenes are broken down into m- & p-Xylenes and o-Xylene. Please see base reporting limits (RL) in the attachment below. Base RL may change depending on the actual concentration of target analytes in the sample; lab will use appropriate calibration standards.

2. ASTM-D9146 (CO and Ethane) = $85

3. EPA 15/16 (Carbon disulfide, dimethyl sulfide, ethyl mercaptan, methyl mercaptan, and hydrogen sulfide) = $140
Note: Please use Tedlar bag to collect these samples.

4. EPA 25C = $100/sample

FYI, the samples are labeled as follows:

MB1-LFG - This is a raw LFG sample, so prepare for higher organics.
MB1-Sur. - This is a near-surface sample, so prepare for lower detection limits.

I'll make sure the COCs are filled out for the samples collected from this point forward.

Thanks,

Ray

Raymond H. Huff, R.E.A.
Project Manager
rhuff@scsengineers.com

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SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 3002
DATE CLEANED: 5·20·04E, 5·20·04F
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5·24·04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	14.02	5-26-04	y
FINAL PRESSURE (PSIA)	23.82	5-26-04	y

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: Waste Management
CANISTER SERIAL #: 9423BB
DATE CLEANED: 5·19·04 A
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5·20·04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	14.17	5-26-04	G
FINAL PRESSURE (PSIA)	23.89	5-26-04	G

Pressurization Gas: N2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

Analytical Report

ANALYTICAL REPORT

Mission Bay LF

Lot #: E4E260223

Raymond Huff

SCS Engineers

SEVERN TRENT LABORATORIES, INC.

Marisol Tabirara
Project Manager

June 7, 2004

EXECUTIVE SUMMARY - Detection Highlights

E4E260223

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MB1-LPG 05/25/04 14:25 001				
Ethane	0.0015	0.00084	%(v/v)	ASTM D1946
Carbon dioxide	24	0.017	%(v/v)	ASTM D1946
Methane	31	0.00034	%(v/v)	ASTM D1946
Oxygen	7.7	0.17	%(v/v)	ASTM D1946
Nitrogen	37	1.7	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	590	51	ppm-c	CFR60A EPA 25C
n-Butane	1500	17	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	36	17	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	58	17	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	200	17	ppb(v/v)	EPA-2 TO-15
n-Hexane	470	17	ppb(v/v)	EPA-2 TO-15
Pentane	890	17	ppb(v/v)	EPA-2 TO-15
Propane	2900	42	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	18	17	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	69	17	ppb(v/v)	EPA-2 TO-15
MB1-SUR 05/25/04 14:10 002				
Carbon dioxide	8.5	0.017	%(v/v)	ASTM D1946
Methane	5.4	0.00034	%(v/v)	ASTM D1946
Oxygen	15	0.17	%(v/v)	ASTM D1946
Nitrogen	71	1.7	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	88	50	ppm-c	CFR60A EPA 25C
Acetone	110	10	ppb(v/v)	EPA-2 TO-15
Bromodichloromethane	2.6	2.0	ppb(v/v)	EPA-2 TO-15
n-Butane	180	2.0	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	24	10	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	5.2	2.0	ppb(v/v)	EPA-2 TO-15
Chloroform	18	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	2.6	2.0	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	18	2.0	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	2.9	2.0	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	9.9	2.0	ppb(v/v)	EPA-2 TO-15
n-Hexane	27	2.0	ppb(v/v)	EPA-2 TO-15
Pentane	72	2.0	ppb(v/v)	EPA-2 TO-15
Propane	350	5.0	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	4.2	2.0	ppb(v/v)	EPA-2 TO-15

ANALYTICAL METHODS SUMMARY

E4E260223

PARAMETER	ANALYTICAL METHOD
Fixed Gases	ASTM D1946
Non-Condensable	CFR60A EPA 25C
Sulfur Compounds	CFR60A EPA 15/16
Volatile Organics by TO15	EPA-2 TO-15

References:

ASTM Annual Book Of ASTM Standards.

CFR60A "Test Methods", 40 CFR, Part 60, Appendix A, July 1, 1993.

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

E4E260223

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GG4C8	001	MB1-LFG	05/25/04	14:25
GG4DC	002	MB1-SUR	05/25/04	14:10
GG4DP	005	MB1-LFG	05/25/04	14:25
GG4DQ	006	MB1-SUR	05/25/04	14:10

NOTE(S):

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

SCS ENGINEERS

Client Sample ID: MB1-LFG

GC/MS Volatiles

Lot-Sample #...: E4E260223-001 **Work Order #...:** GG4C81AF **Matrix.....:** AIR
Date Sampled...: 05/25/04 14:25 **Date Received..:** 05/25/04
Prep Date.....: 06/02/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4159360 **Analysis Time..:** 22:58
Dilution Factor: 8.5
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	85	ppb(v/v)
Acrylonitrile	ND	85	ppb(v/v)
Bromodichloromethane	ND	17	ppb(v/v)
n-Butane	**1500**	**17**	**ppb(v/v)**
2-Butanone (MEK)	ND	85	ppb(v/v)
Carbon disulfide	ND	85	ppb(v/v)
Carbon tetrachloride	ND	17	ppb(v/v)
Chlorobenzene	**36**	**17**	**ppb(v/v)**
Chlorodifluoromethane	ND	17	ppb(v/v)
Chloroethane	ND	34	ppb(v/v)
Chloroform	ND	17	ppb(v/v)
Chloromethane	ND	34	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	17	ppb(v/v)
1,2-Dichlorobenzene	ND	17	ppb(v/v)
1,3-Dichlorobenzene	ND	17	ppb(v/v)
1,4-Dichlorobenzene	**58**	**17**	**ppb(v/v)**
Dichlorodifluoromethane	ND	17	ppb(v/v)
1,1-Dichloroethane	ND	17	ppb(v/v)
1,2-Dichloroethane	ND	17	ppb(v/v)
trans-1,2-Dichloroethene	ND	17	ppb(v/v)
1,1-Dichloroethene	ND	17	ppb(v/v)
Dichlorofluoromethane	ND	17	ppb(v/v)
1,2-Dichloropropane	ND	17	ppb(v/v)
Ethanol	ND	210	ppb(v/v)
Ethylbenzene	**200**	**17**	**ppb(v/v)**
n-Hexane	**470**	**17**	**ppb(v/v)**
Methylene chloride	ND	17	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	85	ppb(v/v)
Pentane	**890**	**17**	**ppb(v/v)**
Propane	**2900**	**42**	**ppb(v/v)**
2-Propanol	ND	85	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	17	ppb(v/v)
Tetrachloroethene	ND	17	ppb(v/v)
1,1,1-Trichloroethane	ND	17	ppb(v/v)
Trichloroethene	ND	17	ppb(v/v)
Trichlorofluoromethane	ND	17	ppb(v/v)

(Continued on next page)

SCS ENGINEERS

Client Sample ID: MB1-LFG

GC/MS Volatiles

Lot-Sample #...: E4E260223-001 **Work Order #...:** GG4C81AF **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Vinyl chloride	**18**	**17**	**ppb(v/v)**
m-Xylene & p-Xylene	**69**	**17**	**ppb(v/v)**
o-Xylene	ND	17	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB1-LFG

GC Volatiles

Lot-Sample #...:	E4E260223-001	**Work Order #...:**	GG4C81AC	**Matrix.....:**	AIR
Date Sampled...:	05/25/04 14:25	**Date Received..:**	05/25/04		
Prep Date.....:	06/03/04	**Analysis Date..:**	06/03/04		
Prep Batch #...:	4155201	**Analysis Time..:**	12:18		
Dilution Factor:	1.69				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon monoxide	ND	0.0017	%(v/v)
Ethane	**0.0015**	**0.00084**	**%(v/v)**
Carbon dioxide	**24**	**0.017**	**%(v/v)**
Methane	**31**	**0.00034**	**%(v/v)**
Oxygen	**7.7**	**0.17**	**%(v/v)**
Nitrogen	**37**	**1.7**	**%(v/v)**

SCS ENGINEERS

Client Sample ID: MB1-LFG

GC Volatiles

Lot-Sample #...:	E4E260223-001	**Work Order #...:**	GG4C81AE	**Matrix.....:**	AIR
Date Sampled...:	05/25/04 14:25	**Date Received..:**	05/25/04		
Prep Date.....:	05/26/04	**Analysis Date..:**	05/26/04		
Prep Batch #...:	4147507	**Analysis Time..:**	23:10		
Dilution Factor:	1.69				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	**590**	**51**	**ppm-c**

SCS ENGINEERS

Client Sample ID: MB1-SUR

GC/MS Volatiles

Lot-Sample #...:	E4E260223-002	**Work Order #...:**	GG4DC1AF	**Matrix.....:**	AIR
Date Sampled...:	05/25/04 14:10	**Date Received..:**	05/25/04		
Prep Date.....:	06/02/04	**Analysis Date..:**	06/02/04		
Prep Batch #...:	4159360	**Analysis Time..:**	23:36		
Dilution Factor:	1				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**110**	**10**	**ppb(v/v)**
Acrylonitrile	ND	10	ppb(v/v)
Bromodichloromethane	**2.6**	**2.0**	**ppb(v/v)**
n-Butane	**180**	**2.0**	**ppb(v/v)**
2-Butanone (MEK)	**24**	**10**	**ppb(v/v)**
Carbon disulfide	ND	10	ppb(v/v)
Carbon tetrachloride	ND	2.0	ppb(v/v)
Chlorobenzene	ND	2.0	ppb(v/v)
Chlorodifluoromethane	**5.2**	**2.0**	**ppb(v/v)**
Chloroethane	ND	4.0	ppb(v/v)
Chloroform	**18**	**2.0**	**ppb(v/v)**
Chloromethane	ND	4.0	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)
1,2-Dichlorobenzene	**2.6**	**2.0**	**ppb(v/v)**
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)
1,4-Dichlorobenzene	**18**	**2.0**	**ppb(v/v)**
Dichlorodifluoromethane	**2.9**	**2.0**	**ppb(v/v)**
1,1-Dichloroethane	ND	2.0	ppb(v/v)
1,2-Dichloroethane	ND	2.0	ppb(v/v)
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)
1,1-Dichloroethene	ND	2.0	ppb(v/v)
Dichlorofluoromethane	ND	2.0	ppb(v/v)
1,2-Dichloropropane	ND	2.0	ppb(v/v)
Ethanol	ND	25	ppb(v/v)
Ethylbenzene	**9.9**	**2.0**	**ppb(v/v)**
n-Hexane	**27**	**2.0**	**ppb(v/v)**
Methylene chloride	ND	2.0	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)
Pentane	**72**	**2.0**	**ppb(v/v)**
Propane	**350**	**5.0**	**ppb(v/v)**
2-Propanol	ND	10	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)
Tetrachloroethene	ND	2.0	ppb(v/v)
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)
Trichloroethene	ND	2.0	ppb(v/v)
Trichlorofluoromethane	ND	2.0	ppb(v/v)

(Continued on next page)

SCS ENGINEERS

Client Sample ID: MB1-SUR

GC/MS Volatiles

Lot-Sample #...: E4E260223-002 **Work Order #...:** GG4DC1AF **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Vinyl chloride	ND	2.0	ppb(v/v)
m-Xylene & p-Xylene	**4.2**	**2.0**	**ppb(v/v)**
o-Xylene	ND	2.0	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB1-SUR

GC Volatiles

Lot-Sample #...: E4E260223-002 **Work Order #...:** GG4DC1AC **Matrix.....:** AIR
Date Sampled...: 05/25/04 14:10 **Date Received..:** 05/25/04
Prep Date.....: 06/03/04 **Analysis Date..:** 06/03/04
Prep Batch #...: 4155201 **Analysis Time..:** 12:42
Dilution Factor: 1.68
Analyst ID.....: 101605 **Instrument ID..:** GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon monoxide	ND	0.0017	%(v/v)
Ethane	ND	0.00084	%(v/v)
Carbon dioxide	**8.5**	**0.017**	**%(v/v)**
Methane	**5.4**	**0.00034**	**%(v/v)**
Oxygen	**15**	**0.17**	**%(v/v)**
Nitrogen	**71**	**1.7**	**%(v/v)**

SCS ENGINEERS

Client Sample ID: MB1-SUR

GC Volatiles

Lot-Sample #...:	E4E260223-002	Work Order #...:	GG4DC1AE	Matrix.....:	AIR
Date Sampled...:	05/25/04 14:10	Date Received..:	05/25/04		
Prep Date.....:	05/27/04	Analysis Date..:	05/27/04		
Prep Batch #...:	4147507	Analysis Time..:	00:23		
Dilution Factor:	1.68				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	88	50	ppm-c

SCS ENGINEERS

Client Sample ID: MB1-LFG

GC Volatiles

Lot-Sample #...: E4E260223-005 **Work Order #...:** GG4DP1AA **Matrix.....:** AIR
Date Sampled...: 05/25/04 14:25 **Date Received..:** 05/25/04
Prep Date.....: 05/26/04 **Analysis Date..:** 05/26/04
Prep Batch #...: 4148020 **Analysis Time..:** 12:01
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC4
Method.....: CFR60A EPA 15/16

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	ND	0.20	ppm(v/v)
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB1-SUR

GC Volatiles

Lot-Sample #...: E4E260223-006 **Work Order #...:** GG4DQ1AA **Matrix.....:** AIR
Date Sampled...: 05/25/04 14:10 **Date Received..:** 05/25/04
Prep Date.....: 05/26/04 **Analysis Date..:** 05/26/04
Prep Batch #...: 4148020 **Analysis Time..:** 11:40
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC4
Method.....: CFR60A EPA 15/16

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	ND	0.20	ppm(v/v)
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E4E260223

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	EPA-2 TO-15		4159360	
	AIR	ASTM D1946		4155201	
	AIR	CFR60A EPA 25C		4147507	
002	AIR	EPA-2 TO-15		4159360	
	AIR	ASTM D1946		4155201	
	AIR	CFR60A EPA 25C		4147507	
005	AIR	CFR60A EPA 15/16		4148020	
006	AIR	CFR60A EPA 15/16		4148020	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4E260223
MB Lot-Sample #: M4F070000-360

Work Order #...: GHQTD1AA
Prep Date.....: 06/02/04
Prep Batch #...: 4159360
Analyst ID.....: 117751

Matrix.....: AIR
Analysis Time..: 19:50
Instrument ID..: MSB

Analysis Date..: 06/02/04
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ppb(v/v)	EPA-2 TO-15
Acrylonitrile	ND	10	ppb(v/v)	EPA-2 TO-15
Bromodichloromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Carbon disulfide	ND	10	ppb(v/v)	EPA-2 TO-15
Carbon tetrachloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chloroethane	ND	4.0	ppb(v/v)	EPA-2 TO-15
Chloroform	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chloromethane	ND	4.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Dichlorofluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Ethanol	ND	25	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Trichlorofluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
n-Hexane	ND	2.0	ppb(v/v)	EPA-2 TO-15
2-Propanol	ND	10	ppb(v/v)	EPA-2 TO-15
Methylene chloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
Pentane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Tetrachloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Trichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
o-Xylene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	ND	10	ppb(v/v)	EPA-2 TO-15
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)	EPA-2 TO-15
n-Butane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Propane	ND	5.0	ppb(v/v)	EPA-2 TO-15

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4E260223 **Work Order #...:** GHQTD1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4E260223
MB Lot-Sample #: M4F030000-201
Analysis Date..: 06/03/04
Dilution Factor: 1

Work Order #...: GHH2Q1AA
Prep Date.....: 06/03/04
Prep Batch #...: 4155201
Analyst ID.....: 101605

Matrix.....: AIR
Analysis Time..: 11:05
Instrument ID..: GC3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon monoxide	ND	0.0010	%(v/v)	ASTM D1946
Ethane	ND	0.00050	%(v/v)	ASTM D1946
Carbon dioxide	ND	0.010	%(v/v)	ASTM D1946
Methane	ND	0.00020	%(v/v)	ASTM D1946
Oxygen	ND	0.10	%(v/v)	ASTM D1946
Nitrogen	ND	1.0	%(v/v)	ASTM D1946

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4E260223
MB Lot-Sample #: M4E270000-020

Analysis Date..: 05/26/04
Dilution Factor: 1

Work Order #...: GG5251AA

Prep Date.....: 05/26/04
Prep Batch #...: 4148020

Analyst ID.....: 358011

Matrix.....: AIR

Analysis Time..: 11:20
Instrument ID..: GC4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hydrogen sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Carbonyl sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Methyl mercaptan	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Ethyl mercaptan	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Dimethyl sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4E260223
MB Lot-Sample #: M4E260000-507

Analysis Date..: 05/25/04
Dilution Factor: 1

Work Order #...: GG5051AA

Prep Date.....: 05/25/04
Prep Batch #...: 4147507

Analyst ID.....: 101605

Matrix.....: AIR

Analysis Time..: 22:59
Instrument ID..: GC3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Non-Methane Hydroca	ND	30	ppm-c	CFR60A EPA 25C

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E4E260223 **Work Order #...:** GHQTD1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F070000-360 GHQTD1AD-LCSD
Prep Date.....: 06/02/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4159360 **Analysis Time..:** 18:50
Dilution Factor: 1 **Instrument ID..:** MSB
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**94**	**(70 - 125)**			**EPA-2 TO-15**
	97	**(70 - 125)**	**2.9**	**(0-20)**	**EPA-2 TO-15**
Methylene chloride	**84**	**(75 - 120)**			**EPA-2 TO-15**
	86	**(75 - 120)**	**3.0**	**(0-20)**	**EPA-2 TO-15**
Trichloroethene	**89**	**(70 - 125)**			**EPA-2 TO-15**
	89	**(70 - 125)**	**0.17**	**(0-20)**	**EPA-2 TO-15**
1,1,2,2-Tetrachloroethane	**81**	**(65 - 130)**			**EPA-2 TO-15**
	78	**(65 - 130)**	**3.6**	**(0-20)**	**EPA-2 TO-15**
Toluene	**84**	**(75 - 125)**			**EPA-2 TO-15**
	83	**(75 - 125)**	**0.51**	**(0-20)**	**EPA-2 TO-15**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E4E260223 **Work Order #...:** GHQTD1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F070000-360 GHQTD1AD-LCSD
Prep Date.....: 06/02/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4159360 **Analysis Time..:** 18:50
Dilution Factor: 1 **Instrument ID..:** MSB
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**59.2**	**55.5**	**ppb(v/v)**	**94**		**EPA-2 TO-15**
	59.2	**57.2**	**ppb(v/v)**	**97**	**2.9**	**EPA-2 TO-15**
Methylene chloride	**58.7**	**49.2**	**ppb(v/v)**	**84**		**EPA-2 TO-15**
	58.7	**50.7**	**ppb(v/v)**	**86**	**3.0**	**EPA-2 TO-15**
Trichloroethene	**59.5**	**53.1**	**ppb(v/v)**	**89**		**EPA-2 TO-15**
	59.5	**53.0**	**ppb(v/v)**	**89**	**0.17**	**EPA-2 TO-15**
1,1,2,2-Tetrachloroethane	**55.4**	**45.0**	**ppb(v/v)**	**81**		**EPA-2 TO-15**
	55.4	**43.4**	**ppb(v/v)**	**78**	**3.6**	**EPA-2 TO-15**
Toluene	**55.7**	**46.6**	**ppb(v/v)**	**84**		**EPA-2 TO-15**
	55.7	**46.4**	**ppb(v/v)**	**83**	**0.51**	**EPA-2 TO-15**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4E260223 **Work Order #...:** GHH2Q1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F030000-201 GHH2Q1AD-LCSD
Prep Date.....: 06/03/04 **Analysis Date..:** 06/03/04
Prep Batch #...: 4155201 **Analysis Time..:** 10:09
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Carbon dioxide	**89**	**(75 - 125)**			**ASTM D1946**
	86	**(75 - 125)**	**4.1**	**(0-20)**	**ASTM D1946**
Methane	**96**	**(75 - 135)**			**ASTM D1946**
	85	**(75 - 135)**	**11**	**(0-20)**	**ASTM D1946**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4E260223 **Work Order #...:** GHH2Q1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F030000-201 GHH2Q1AD-LCSD
Prep Date.....: 06/03/04 **Analysis Date..:** 06/03/04
Prep Batch #...: 4155201 **Analysis Time..:** 10:09
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	**1.00**	**0.893**	**%(v/v)**	**89**		**ASTM D1946**
	1.00	**0.858**	**%(v/v)**	**86**	**4.1**	**ASTM D1946**
Methane	**0.0500**	**0.0479**	**%(v/v)**	**96**		**ASTM D1946**
	0.0500	**0.0427**	**%(v/v)**	**85**	**11**	**ASTM D1946**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4E260223 **Work Order #...:** GG5251AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4E270000-020 GG5251AD-LCSD
Prep Date.....: 05/26/04 **Analysis Date..:** 05/26/04
Prep Batch #...: 4148020 **Analysis Time..:** 10:41
Dilution Factor: 1 **Instrument ID..:** GC4
Analyst ID.....: 358011

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hydrogen sulfide	**113**	**(60 - 130)**			**CFR60A EPA 15/16**
	110	**(60 - 130)**	**2.3**	**(0-25)**	**CFR60A EPA 15/16**
Carbonyl sulfide	**114**	**(75 - 140)**			**CFR60A EPA 15/16**
	110	**(75 - 140)**	**3.3**	**(0-25)**	**CFR60A EPA 15/16**
Methyl mercaptan	**113**	**(75 - 130)**			**CFR60A EPA 15/16**
	110	**(75 - 130)**	**2.8**	**(0-25)**	**CFR60A EPA 15/16**
Carbon disulfide	**100**	**(70 - 120)**			**CFR60A EPA 15/16**
	98	**(70 - 120)**	**1.4**	**(0-25)**	**CFR60A EPA 15/16**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4E260223 **Work Order #...:** GG5251AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4E270000-020 GG5251AD-LCSD
Prep Date.....: 05/26/04 **Analysis Date..:** 05/26/04
Prep Batch #...: 4148020 **Analysis Time..:** 10:41
Dilution Factor: 1 **Instrument ID..:** GC4
Analyst ID.....: 358011

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Hydrogen sulfide	**0.940**	**1.06**	**ppm(v/v)**	**113**		**CFR60A EPA 15/16**
	0.940	**1.04**	**ppm(v/v)**	**110**	**2.3**	**CFR60A EPA 15/16**
Carbonyl sulfide	**1.10**	**1.25**	**ppm(v/v)**	**114**		**CFR60A EPA 15/16**
	1.10	**1.21**	**ppm(v/v)**	**110**	**3.3**	**CFR60A EPA 15/16**
Methyl mercaptan	**1.00**	**1.13**	**ppm(v/v)**	**113**		**CFR60A EPA 15/16**
	1.00	**1.10**	**ppm(v/v)**	**110**	**2.8**	**CFR60A EPA 15/16**
Carbon disulfide	**1.13**	**1.12**	**ppm(v/v)**	**100**		**CFR60A EPA 15/16**
	1.13	**1.11**	**ppm(v/v)**	**98**	**1.4**	**CFR60A EPA 15/16**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4E260223 **Work Order #...:** GG5051AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4E260000-507 GG5051AD-LCSD
Prep Date.....: 05/25/04 **Analysis Date..:** 05/25/04
Prep Batch #...: 4147507 **Analysis Time..:** 20:35
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Non-Methane Hydrocar	**104**	**(80 - 120)**			**CFR60A EPA 25C**
	104	**(80 - 120)**	**0.060**	**(0-20)**	**CFR60A EPA 25C**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4E260223 **Work Order #...:** GG5051AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4E260000-507 GG5051AD-LCSD
Prep Date.....: 05/25/04 **Analysis Date..:** 05/25/04
Prep Batch #...: 4147507 **Analysis Time..:** 20:35
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Non-Methane Hydrocar	**3000**	**3120**	**ppm-c**	**104**		**CFR60A EPA 25C**
	3000	**3120**	**ppm-c**	**104**	**0.060**	**CFR60A EPA 25C**

NOTE(S):

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

Bold print denotes control parameters

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

June 11, 2004

STL LOT NUMBER: **E4E270337**
PO/CONTRACT: 01203520.00

Raymond Huff
SCS Engineers
3711 Long Beach Boulevard
Ninth Floor
Long Beach, CA 90807-3315

Dear Mr. Huff,

This report contains the analytical results for the eight samples received under chain of custody by STL Los Angeles on May 26, 2004. These samples are associated with your Mission Bay LF project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is E87652.

Any matrix related anomaly is footnoted within the report. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria.

Preliminary results were sent via facsimile on June 7, 2004.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000051 pages.

If you have any questions, please feel free to call me at (714) 258-8610.

Sincerely,

Marisol Tabirara
Project Manager

cc: Project File

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: SCS Engineers	Project Manager: Ray Huff	Date: 5/26/04	Chain of Custody Number: 131471
Address: 8799 Balboa Avenue #290	Telephone Number (Area Code)/Fax Number: (858) 571-5500	Lab Number: E4E270337	Page 1 of 1
City: San Diego; State: CA; Zip Code: 92123	Site Contact: K. Stackpole; Lab Contact:		
Project Name and Location (State): Mission Bay Landfill, San Diego, CA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 01203520.00			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tedlar	TO15	ASTM-D9146 (plus CO and Ethane)	EPA 15/16	EPA 25C	Special Instructions/ Conditions of Receipt
MB2-Sur	5/26/04	13:50	X										X			X		
MB2-Lfg			X										X			X		
MB2-Sur			X							X				X	X		X	
MB2-Lfg			X							X				X	X		X	
MB3-Sur		17:15	X										X			X		
MB3-Lfg			X										X			X		
MB3-Sur			X							X				X	X		X	
MB3-Lfg			X							X				X	X		X	

AP-42 Lfg constituents

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: Contact Ray Huff for TAT ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☐ Other_____

QC Requirements (Specify):

1. Relinquished By: Karen Stackpole	Date: 5/26/04	Time: 1805	1. Received By: Vincent Padilla	Date: 5/26/04	Time: 1805
2. Relinquished By: Vincent Padilla	Date: 5/26/04	Time: 1932	2. Received By: Jerry Swart	Date: 5/26/04	Time: 1932
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

000003

SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 2323
DATE CLEANED: 5·20·04E, 5·20·04F
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5·24·04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	12.76	5-27-04	LR
FINAL PRESSURE (PSIA)	24.30	5-27-04	LR

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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4

SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 3296
DATE CLEANED: 5-20-04E, 5-20-04P
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac (inches Hg) Or PRESS (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5-24-04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	13.15	5-27-04	LR
FINAL PRESSURE (PSIA)	24.12	5-27-04	LR

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 2629
DATE CLEANED: 5-20-04E, 5-20-04B
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5-24-04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	9.03	5-27-04	LR
FINAL PRESSURE (PSIA)	19.66	5-27-04	LR

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT WMI
CANISTER SERIAL # 2741
DATE CLEANED: 5-20-04B, 5-20-04F
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5-24-04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	8.33	5-27-04	LR
FINAL PRESSURE (PSIA)	19.43	5-27-04	LR

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

Analytical Report

ANALYTICAL REPORT

Mission Bay LF

Lot #: E4E270337

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EXECUTIVE SUMMARY - Detection Highlights

E4E270337

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MB2-LFG 05/26/04 13:50 002				
Hydrogen sulfide	2.9	0.40	ppm(v/v)	CFR60A EPA 15/16
MB2-SUR 05/26/04 13:50 003				
Carbon dioxide	0.33	0.019	%(v/v)	ASTM D1946
Oxygen	22	0.19	%(v/v)	ASTM D1946
Nitrogen	79	1.9	%(v/v)	ASTM D1946
Methane	0.013	0.00038	%(v/v)	ASTM D1946
Acetone	140	10	ppb(v/v)	EPA-2 TO-15
n-Butane	27	2.0	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	28	10	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	4.7	2.0	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	5.2	2.0	ppb(v/v)	EPA-2 TO-15
n-Hexane	2.9	2.0	ppb(v/v)	EPA-2 TO-15
Pentane	7.0	2.0	ppb(v/v)	EPA-2 TO-15
Propane	60	5.0	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	7.2	2.0	ppb(v/v)	EPA-2 TO-15
o-Xylene	2.9	2.0	ppb(v/v)	EPA-2 TO-15
MB2-LFG 05/26/04 13:50 004				
Carbon dioxide	16	0.018	%(v/v)	ASTM D1946
Oxygen	14	0.18	%(v/v)	ASTM D1946
Nitrogen	54	1.8	%(v/v)	ASTM D1946
Methane	17	0.00037	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	890	55	ppm-c	CFR60A EPA 25C
n-Butane	2100	15	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	22	15	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	29	15	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	71	15	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	350	15	ppb(v/v)	EPA-2 TO-15
n-Hexane	260	15	ppb(v/v)	EPA-2 TO-15
Pentane	700	15	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	39	15	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	220	15	ppb(v/v)	EPA-2 TO-15
o-Xylene	35	15	ppb(v/v)	EPA-2 TO-15
Propane	4100	180	ppb(v/v)	EPA-2 TO-15
MB3-LFG 05/26/04 17:15 006				
Hydrogen sulfide	0.54	0.20	ppm(v/v)	CFR60A EPA 15/16

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EXECUTIVE SUMMARY - Detection Highlights

E4E270337

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MB3-SUR 05/26/04 17:15 007				
Carbon dioxide	2.4	0.022	%(v/v)	ASTM D1946
Oxygen	20	0.22	%(v/v)	ASTM D1946
Nitrogen	77	2.2	%(v/v)	ASTM D1946
Methane	2.1	0.00043	%(v/v)	ASTM D1946
Acetone	98	10	ppb(v/v)	EPA-2 TO-15
n-Butane	200	2.0	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	17	10	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	2.6	2.0	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	2.7	2.0	ppb(v/v)	EPA-2 TO-15
n-Hexane	21	2.0	ppb(v/v)	EPA-2 TO-15
Pentane	72	2.0	ppb(v/v)	EPA-2 TO-15
Propane	370	5.0	ppb(v/v)	EPA-2 TO-15
MB3-LFG 05/26/04 17:15 008				
Carbon dioxide	9.0	0.023	%(v/v)	ASTM D1946
Oxygen	18	0.23	%(v/v)	ASTM D1946
Nitrogen	63	2.3	%(v/v)	ASTM D1946
Methane	12	0.00047	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	110	70	ppm-c	CFR60A EPA 25C
Acetone	40	10	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	8.4	2.0	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	6.5	2.0	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	3.3	2.0	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	5.6	2.0	ppb(v/v)	EPA-2 TO-15
n-Hexane	160	2.0	ppb(v/v)	EPA-2 TO-15
Pentane	190	2.0	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	6.5	2.0	ppb(v/v)	EPA-2 TO-15
o-Xylene	3.8	2.0	ppb(v/v)	EPA-2 TO-15
n-Butane	550	23	ppb(v/v)	EPA-2 TO-15
Propane	1000	58	ppb(v/v)	EPA-2 TO-15

ANALYTICAL METHODS SUMMARY

E4E270337

PARAMETER	ANALYTICAL METHOD
Fixed Gases	ASTM D1946
Non-Condensable	CFR60A EPA 25C
Sulfur Compounds	CFR60A EPA 15/16
Volatile Organics by TO15	EPA-2 TO-15

References:

ASTM Annual Book Of ASTM Standards.

CFR60A "Test Methods", 40 CFR, Part 60, Appendix A, July 1, 1993.

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

E4E270337

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GG77C	001	MB2-SUR	05/26/04	13:50
GG77G	002	MB2-LFG	05/26/04	13:50
GG77J	003	MB2-SUR	05/26/04	13:50
GG77M	004	MB2-LFG	05/26/04	13:50
GG77Q	005	MB3-SUR	05/26/04	17:15
GG77V	006	MB3-LFG	05/26/04	17:15
GG77W	007	MB3-SUR	05/26/04	17:15
GG77X	008	MB3-LFG	05/26/04	17:15

NOTE(S):

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

SCS ENGINEERS

Client Sample ID: MB2-SUR

GC Volatiles

Lot-Sample #...: E4E270337-001 **Work Order #...:** GG77C1AA **Matrix.....:** AIR
Date Sampled...: 05/26/04 13:50 **Date Received..:** 05/26/04
Prep Date.....: 05/27/04 **Analysis Date..:** 05/27/04
Prep Batch #...: 4154283 **Analysis Time..:** 02:39
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC4
Method.....: CFR60A EPA 15/16

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	ND	0.20	ppm(v/v)
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB2-LFG

GC Volatiles

Lot-Sample #...: E4E270337-002 **Work Order #...:** GG77G1AA **Matrix.....:** AIR
Date Sampled...: 05/26/04 13:50 **Date Received..:** 05/26/04
Prep Date.....: 05/27/04 **Analysis Date..:** 05/27/04
Prep Batch #...: 4154283 **Analysis Time..:** 02:55
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC4
Method.....: CFR60A EPA 15/16

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB2-LFG

GC Volatiles

Lot-Sample #...:	E4E270337-002	Work Order #...:	GG77G2AA	Matrix.....:	AIR
Date Sampled...:	05/26/04 13:50	Date Received..:	05/26/04		
Prep Date.....:	05/27/04	Analysis Date..:	05/27/04		
Prep Batch #...:	4154283	Analysis Time..:	04:35		
Dilution Factor:	2				
Analyst ID.....:	358011	Instrument ID..:	GC4		
		Method.....:	CFR60A EPA 15/16		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	2.9	0.40	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB2-SUR

GC/MS Volatiles

Lot-Sample #...: E4E270337-003 **Work Order #...:** GG77J1AF **Matrix.....:** AIR
Date Sampled...: 05/26/04 13:50 **Date Received..:** 05/26/04
Prep Date.....: 06/03/04 **Analysis Date..:** 06/03/04
Prep Batch #...: 4159360 **Analysis Time..:** 08:56
Dilution Factor: 1
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)
Acetone	**140**	**10**	**ppb(v/v)**
Acrylonitrile	ND	10	ppb(v/v)
Bromodichloromethane	ND	2.0	ppb(v/v)
n-Butane	**27**	**2.0**	**ppb(v/v)**
2-Butanone (MEK)	**28**	**10**	**ppb(v/v)**
Carbon disulfide	ND	10	ppb(v/v)
Carbon tetrachloride	ND	2.0	ppb(v/v)
Chlorobenzene	ND	2.0	ppb(v/v)
Chlorodifluoromethane	ND	2.0	ppb(v/v)
Chloroethane	ND	4.0	ppb(v/v)
Chloroform	ND	2.0	ppb(v/v)
Chloromethane	ND	4.0	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)
1,4-Dichlorobenzene	**4.7**	**2.0**	**ppb(v/v)**
Dichlorodifluoromethane	ND	2.0	ppb(v/v)
1,1-Dichloroethane	ND	2.0	ppb(v/v)
1,2-Dichloroethane	ND	2.0	ppb(v/v)
1,1-Dichloroethene	ND	2.0	ppb(v/v)
Dichlorofluoromethane	ND	2.0	ppb(v/v)
1,2-Dichloropropane	ND	2.0	ppb(v/v)
Ethanol	ND	25	ppb(v/v)
Ethylbenzene	**5.2**	**2.0**	**ppb(v/v)**
n-Hexane	**2.9**	**2.0**	**ppb(v/v)**
Methylene chloride	ND	2.0	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)
Pentane	**7.0**	**2.0**	**ppb(v/v)**
Propane	**60**	**5.0**	**ppb(v/v)**
2-Propanol	ND	10	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)
Tetrachloroethene	ND	2.0	ppb(v/v)
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)
Trichloroethene	ND	2.0	ppb(v/v)
Trichlorofluoromethane	ND	2.0	ppb(v/v)

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SCS ENGINEERS

Client Sample ID: MB2-SUR

GC/MS Volatiles

Lot-Sample #...: E4E270337-003 **Work Order #...:** GG77J1AF **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Vinyl chloride	ND	2.0	ppb(v/v)
m-Xylene & p-Xylene	**7.2**	**2.0**	**ppb(v/v)**
o-Xylene	**2.9**	**2.0**	**ppb(v/v)**

SCS ENGINEERS

Client Sample ID: MB2-SUR

GC Volatiles

Lot-Sample #...:	E4E270337-003	**Work Order #...:**	GG77J1AC	**Matrix.....:**	AIR
Date Sampled...:	05/26/04 13:50	**Date Received..:**	05/26/04		
Prep Date.....:	06/01/04	**Analysis Date..:**	06/01/04		
Prep Batch #...:	4153623	**Analysis Time..:**	14:35		
Dilution Factor:	1.9				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**0.33**	**0.019**	**%(v/v)**
Oxygen	**22**	**0.19**	**%(v/v)**
Nitrogen	**79**	**1.9**	**%(v/v)**
Methane	**0.013**	**0.00038**	**%(v/v)**
Carbon monoxide	ND	0.0019	%(v/v)
Ethane	ND	0.00095	%(v/v)

SCS ENGINEERS

Client Sample ID: MB2-SUR

GC Volatiles

Lot-Sample #...: E4E270337-003 **Work Order #...:** GG77J1AE **Matrix.....:** AIR
Date Sampled...: 05/26/04 13:50 **Date Received..:** 05/26/04
Prep Date.....: 06/01/04 **Analysis Date..:** 06/01/04
Prep Batch #...: 4153624 **Analysis Time..:** 14:35
Dilution Factor: 1.9
Analyst ID.....: 101605 **Instrument ID..:** GC3
Method.....: CFR60A EPA 25C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	ND	57	ppm-c

SCS ENGINEERS

Client Sample ID: MB2-LFG

GC/MS Volatiles

Lot-Sample #...:	E4E270337-004	**Work Order #...:**	GG77M1AF	**Matrix.....:**	AIR
Date Sampled...:	05/26/04 13:50	**Date Received..:**	05/26/04		
Prep Date.....:	06/03/04	**Analysis Date..:**	06/03/04		
Prep Batch #...:	4159360	**Analysis Time..:**	00:51		
Dilution Factor:	7.3				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	73	ppb(v/v)
Acrylonitrile	ND	73	ppb(v/v)
Bromodichloromethane	ND	15	ppb(v/v)
n-Butane	**2100**	**15**	**ppb(v/v)**
2-Butanone (MEK)	ND	73	ppb(v/v)
Carbon disulfide	ND	73	ppb(v/v)
Carbon tetrachloride	ND	15	ppb(v/v)
Chlorobenzene	**22**	**15**	**ppb(v/v)**
Chlorodifluoromethane	**29**	**15**	**ppb(v/v)**
Chloroethane	ND	29	ppb(v/v)
Chloroform	ND	15	ppb(v/v)
Chloromethane	ND	29	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	15	ppb(v/v)
1,2-Dichlorobenzene	ND	15	ppb(v/v)
1,3-Dichlorobenzene	ND	15	ppb(v/v)
1,4-Dichlorobenzene	**71**	**15**	**ppb(v/v)**
Dichlorodifluoromethane	ND	15	ppb(v/v)
1,1-Dichloroethane	ND	15	ppb(v/v)
1,2-Dichloroethane	ND	15	ppb(v/v)
trans-1,2-Dichloroethene	ND	15	ppb(v/v)
1,1-Dichloroethene	ND	15	ppb(v/v)
Dichlorofluoromethane	ND	15	ppb(v/v)
1,2-Dichloropropane	ND	15	ppb(v/v)
Ethanol	ND	180	ppb(v/v)
Ethylbenzene	**350**	**15**	**ppb(v/v)**
n-Hexane	**260**	**15**	**ppb(v/v)**
Methylene chloride	ND	15	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	73	ppb(v/v)
Pentane	**700**	**15**	**ppb(v/v)**
2-Propanol	ND	73	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	15	ppb(v/v)
Tetrachloroethene	ND	15	ppb(v/v)
1,1,1-Trichloroethane	ND	15	ppb(v/v)
Trichloroethene	ND	15	ppb(v/v)
Trichlorofluoromethane	ND	15	ppb(v/v)
Vinyl chloride	**39**	**15**	**ppb(v/v)**

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SCS ENGINEERS

Client Sample ID: MB2-LFG

GC/MS Volatiles

Lot-Sample #...: E4E270337-004 Work Order #...: GG77M1AF Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
m-Xylene & p-Xylene	220	15	ppb(v/v)
o-Xylene	35	15	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB2-LFG

GC/MS Volatiles

Lot-Sample #...:	E4E270337-004	**Work Order #...:**	GG77M2AF	**Matrix.....:**	AIR
Date Sampled...:	05/26/04 13:50	**Date Received..:**	05/26/04		
Prep Date.....:	06/02/04	**Analysis Date..:**	06/03/04		
Prep Batch #...:	4159360	**Analysis Time..:**	09:28		
Dilution Factor:	36.52				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Propane	**4100**	**180**	**ppb(v/v)**

SCS ENGINEERS

Client Sample ID: MB2-LFG

GC Volatiles

Lot-Sample #...:	E4E270337-004	**Work Order #...:**	GG77M1AC	**Matrix.....:**	AIR
Date Sampled...:	05/26/04 13:50	**Date Received..:**	05/26/04		
Prep Date.....:	06/01/04	**Analysis Date..:**	06/01/04		
Prep Batch #...:	4153623	**Analysis Time..:**	15:47		
Dilution Factor:	1.83				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**16**	**0.018**	**%(v/v)**
Oxygen	**14**	**0.18**	**%(v/v)**
Nitrogen	**54**	**1.8**	**%(v/v)**
Methane	**17**	**0.00037**	**%(v/v)**
Carbon monoxide	ND	0.0018	%(v/v)
Ethane	ND	0.00092	%(v/v)

SCS ENGINEERS

Client Sample ID: MB2-LFG

GC Volatiles

Lot-Sample #...:	E4E270337-004	Work Order #...:	GG77M1AE	Matrix.....:	AIR
Date Sampled...:	05/26/04 13:50	Date Received..:	05/26/04		
Prep Date.....:	06/01/04	Analysis Date..:	06/01/04		
Prep Batch #...:	4153624	Analysis Time..:	15:47		
Dilution Factor:	1.83				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	890	55	ppm-c

SCS ENGINEERS

Client Sample ID: MB3-SUR

GC Volatiles

Lot-Sample #...: E4E270337-005 **Work Order #...:** GG77Q1AA **Matrix.....:** AIR
Date Sampled...: 05/26/04 17:15 **Date Received..:** 05/26/04
Prep Date.....: 05/27/04 **Analysis Date..:** 05/27/04
Prep Batch #...: 4154283 **Analysis Time..:** 03:11
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC4
Method.....: CFR60A EPA 15/16

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	ND	0.20	ppm(v/v)
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB3-LFG

GC Volatiles

Lot-Sample #...: E4E270337-006 **Work Order #...:** GG77V1AA **Matrix.....:** AIR
Date Sampled...: 05/26/04 17:15 **Date Received..:** 05/26/04
Prep Date.....: 05/27/04 **Analysis Date..:** 05/27/04
Prep Batch #...: 4154283 **Analysis Time..:** 03:46
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC4
Method.....: CFR60A EPA 15/16

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	**0.54**	**0.20**	**ppm(v/v)**
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB3-SUR

GC/MS Volatiles

Lot-Sample #...: E4E270337-007 **Work Order #...:** GG77W1AF **Matrix.....:** AIR
Date Sampled...: 05/26/04 17:15 **Date Received..:** 05/26/04
Prep Date.....: 06/03/04 **Analysis Date..:** 06/03/04
Prep Batch #...: 4159360 **Analysis Time..:** 01:34
Dilution Factor: 1
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**98**	**10**	**ppb(v/v)**
Acrylonitrile	ND	10	ppb(v/v)
Bromodichloromethane	ND	2.0	ppb(v/v)
n-Butane	**200**	**2.0**	**ppb(v/v)**
2-Butanone (MEK)	**17**	**10**	**ppb(v/v)**
Carbon disulfide	ND	10	ppb(v/v)
Carbon tetrachloride	ND	2.0	ppb(v/v)
Chlorobenzene	ND	2.0	ppb(v/v)
Chlorodifluoromethane	**2.6**	**2.0**	**ppb(v/v)**
Chloroethane	ND	4.0	ppb(v/v)
Chloroform	ND	2.0	ppb(v/v)
Chloromethane	ND	4.0	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)
1,4-Dichlorobenzene	**2.7**	**2.0**	**ppb(v/v)**
Dichlorodifluoromethane	ND	2.0	ppb(v/v)
1,1-Dichloroethane	ND	2.0	ppb(v/v)
1,2-Dichloroethane	ND	2.0	ppb(v/v)
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)
1,1-Dichloroethene	ND	2.0	ppb(v/v)
Dichlorofluoromethane	ND	2.0	ppb(v/v)
1,2-Dichloropropane	ND	2.0	ppb(v/v)
Ethanol	ND	25	ppb(v/v)
Ethylbenzene	ND	2.0	ppb(v/v)
n-Hexane	**21**	**2.0**	**ppb(v/v)**
Methylene chloride	ND	2.0	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)
Pentane	**72**	**2.0**	**ppb(v/v)**
Propane	**370**	**5.0**	**ppb(v/v)**
2-Propanol	ND	10	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)
Tetrachloroethene	ND	2.0	ppb(v/v)
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)
Trichloroethene	ND	2.0	ppb(v/v)
Trichlorofluoromethane	ND	2.0	ppb(v/v)

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SCS ENGINEERS

Client Sample ID: MB3-SUR

GC/MS Volatiles

Lot-Sample #...: E4E270337-007 **Work Order #...:** GG77W1AF **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Vinyl chloride	ND	2.0	ppb(v/v)
m-Xylene & p-Xylene	ND	2.0	ppb(v/v)
o-Xylene	ND	2.0	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB3-SUR

GC Volatiles

Lot-Sample #...:	E4E270337-007	**Work Order #...:**	GG77W1AC	**Matrix.....:**	AIR
Date Sampled...:	05/26/04 17:15	**Date Received..:**	05/26/04		
Prep Date.....:	06/01/04	**Analysis Date..:**	06/01/04		
Prep Batch #...:	4153623	**Analysis Time..:**	16:59		
Dilution Factor:	2.17				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**2.4**	**0.022**	**%(v/v)**
Oxygen	**20**	**0.22**	**%(v/v)**
Nitrogen	**77**	**2.2**	**%(v/v)**
Methane	**2.1**	**0.00043**	**%(v/v)**
Carbon monoxide	ND	0.0022	%(v/v)
Ethane	ND	0.0011	%(v/v)

SCS ENGINEERS

Client Sample ID: MB3-SUR

GC Volatiles

Lot-Sample #...:	E4E270337-007	**Work Order #...:**	GG77W1AE	**Matrix.....:**	AIR
Date Sampled...:	05/26/04 17:15	**Date Received..:**	05/26/04		
Prep Date.....:	06/01/04	**Analysis Date..:**	06/01/04		
Prep Batch #...:	4153624	**Analysis Time..:**	16:59		
Dilution Factor:	2.17				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	ND	65	ppm-c

SCS ENGINEERS

Client Sample ID: MB3-LFG

GC/MS Volatiles

Lot-Sample #...: E4E270337-008 **Work Order #...:** GG77X1AF **Matrix.....:** AIR
Date Sampled...: 05/26/04 17:15 **Date Received..:** 05/26/04
Prep Date.....: 06/03/04 **Analysis Date..:** 06/03/04
Prep Batch #...: 4159360 **Analysis Time..:** 02:14
Dilution Factor: 1
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**40**	**10**	**ppb(v/v)**
Acrylonitrile	ND	10	ppb(v/v)
Bromodichloromethane	ND	2.0	ppb(v/v)
2-Butanone (MEK)	ND	10	ppb(v/v)
Carbon disulfide	ND	10	ppb(v/v)
Carbon tetrachloride	ND	2.0	ppb(v/v)
Chlorobenzene	ND	2.0	ppb(v/v)
Chlorodifluoromethane	**8.4**	**2.0**	**ppb(v/v)**
Chloroethane	ND	4.0	ppb(v/v)
Chloroform	ND	2.0	ppb(v/v)
Chloromethane	ND	4.0	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)
1,4-Dichlorobenzene	**6.5**	**2.0**	**ppb(v/v)**
Dichlorodifluoromethane	**3.3**	**2.0**	**ppb(v/v)**
1,1-Dichloroethane	ND	2.0	ppb(v/v)
1,2-Dichloroethane	ND	2.0	ppb(v/v)
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)
1,1-Dichloroethene	ND	2.0	ppb(v/v)
Dichlorofluoromethane	ND	2.0	ppb(v/v)
1,2-Dichloropropane	ND	2.0	ppb(v/v)
Ethanol	ND	25	ppb(v/v)
Ethylbenzene	**5.6**	**2.0**	**ppb(v/v)**
n-Hexane	**160**	**2.0**	**ppb(v/v)**
Methylene chloride	ND	2.0	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)
Pentane	**190**	**2.0**	**ppb(v/v)**
2-Propanol	ND	10	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)
Tetrachloroethene	ND	2.0	ppb(v/v)
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)
Trichloroethene	ND	2.0	ppb(v/v)
Trichlorofluoromethane	ND	2.0	ppb(v/v)
Vinyl chloride	ND	2.0	ppb(v/v)
m-Xylene & p-Xylene	**6.5**	**2.0**	**ppb(v/v)**

(Continued on next page)

SCS ENGINEERS

Client Sample ID: MB3-LFG

GC/MS Volatiles

Lot-Sample #...: E4E270337-008 Work Order #...: GG77X1AF Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
o-Xylene	3.8	2.0	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB3-LFG

GC/MS Volatiles

Lot-Sample #...:	E4E270337-008	**Work Order #...:**	GG77X2AF	**Matrix.....:**	AIR
Date Sampled...:	05/26/04 17:15	**Date Received..:**	05/26/04		
Prep Date.....:	06/02/04	**Analysis Date..:**	06/03/04		
Prep Batch #...:	4159360	**Analysis Time..:**	10:06		
Dilution Factor:	11.64				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
n-Butane	**550**	**23**	**ppb(v/v)**
Propane	**1000**	**58**	**ppb(v/v)**

SCS ENGINEERS

Client Sample ID: MB3-LFG

GC Volatiles

Lot-Sample #...:	E4E270337-008	**Work Order #...:**	GG77X1AC	**Matrix.....:**	AIR
Date Sampled...:	05/26/04 17:15	**Date Received..:**	05/26/04		
Prep Date.....:	06/01/04	**Analysis Date..:**	06/01/04		
Prep Batch #...:	4153623	**Analysis Time..:**	18:12		
Dilution Factor:	2.33				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**9.0**	**0.023**	**%(v/v)**
Oxygen	**18**	**0.23**	**%(v/v)**
Nitrogen	**63**	**2.3**	**%(v/v)**
Methane	**12**	**0.00047**	**%(v/v)**
Carbon monoxide	ND	0.0023	%(v/v)
Ethane	ND	0.0012	%(v/v)

SCS ENGINEERS

Client Sample ID: MB3-LFG

GC Volatiles

Lot-Sample #...:	E4E270337-008	Work Order #...:	GG77X1AE	Matrix.....:	AIR
Date Sampled...:	05/26/04 17:15	Date Received..:	05/26/04		
Prep Date.....:	06/01/04	Analysis Date..:	06/01/04		
Prep Batch #...:	4153624	Analysis Time..:	18:12		
Dilution Factor:	2.33				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	110	70	ppm-c

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E4E270337

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	CFR60A EPA 15/16		4154283	
002	AIR	CFR60A EPA 15/16		4154283	
003	AIR	EPA-2 TO-15		4159360	
	AIR	ASTM D1946		4153623	
	AIR	CFR60A EPA 25C		4153624	
004	AIR	EPA-2 TO-15		4159360	
	AIR	ASTM D1946		4153623	
	AIR	CFR60A EPA 25C		4153624	
005	AIR	CFR60A EPA 15/16		4154283	
006	AIR	CFR60A EPA 15/16		4154283	
007	AIR	EPA-2 TO-15		4159360	
	AIR	ASTM D1946		4153623	
	AIR	CFR60A EPA 25C		4153624	
008	AIR	EPA-2 TO-15		4159360	
	AIR	ASTM D1946		4153623	
	AIR	CFR60A EPA 25C		4153624	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4E270337
MB Lot-Sample #: M4F070000-360

Work Order #...: GHQTD1AA

Matrix.....: AIR

Prep Date.....: 06/02/04

Analysis Time..: 19:50

Analysis Date..: 06/02/04

Prep Batch #...: 4159360

Instrument ID..: MSB

Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ppb(v/v)	EPA-2 TO-15
Acrylonitrile	ND	10	ppb(v/v)	EPA-2 TO-15
Bromodichloromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Carbon disulfide	ND	10	ppb(v/v)	EPA-2 TO-15
Carbon tetrachloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chloroethane	ND	4.0	ppb(v/v)	EPA-2 TO-15
Chloroform	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chloromethane	ND	4.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Dichlorofluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Ethanol	ND	25	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Trichlorofluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
n-Hexane	ND	2.0	ppb(v/v)	EPA-2 TO-15
2-Propanol	ND	10	ppb(v/v)	EPA-2 TO-15
Methylene chloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
Pentane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Tetrachloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Trichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
o-Xylene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	ND	10	ppb(v/v)	EPA-2 TO-15
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)	EPA-2 TO-15
n-Butane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Propane	ND	5.0	ppb(v/v)	EPA-2 TO-15

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4E270337 **Work Order #...:** GHQTD1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4E270337
MB Lot-Sample #: M4F010000-623

Work Order #...: GHE3G1AA
Prep Date.....: 06/01/04
Prep Batch #...: 4153623
Analyst ID.....: 101605

Matrix.....: AIR
Analysis Time..: 14:11
Instrument ID..: GC3

Analysis Date..: 06/01/04
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon dioxide	ND	0.010	%(v/v)	ASTM D1946
Oxygen	ND	0.10	%(v/v)	ASTM D1946
Nitrogen	ND	1.0	%(v/v)	ASTM D1946
Methane	ND	0.00020	%(v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	%(v/v)	ASTM D1946
Ethane	ND	0.00050	%(v/v)	ASTM D1946

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4E270337
MB Lot-Sample #: M4F020000-283

Analysis Date..: 05/27/04
Dilution Factor: 1

Work Order #...: GHFW21AA

Prep Date.....: 05/27/04
Prep Batch #...: 4154283

Analyst ID.....: 358011

Matrix.....: AIR

Analysis Time..: 11:20
Instrument ID..: GC4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hydrogen sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Carbonyl sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Methyl mercaptan	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Ethyl mercaptan	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Dimethyl sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4E270337
MB Lot-Sample #: M4F010000-624

Analysis Date..: 06/01/04
Dilution Factor: 1

Work Order #...: GHE3T1AA

Prep Date.....: 06/01/04
Prep Batch #...: 4153624

Analyst ID.....: 101605

Matrix.....: AIR

Analysis Time..: 14:11
Instrument ID..: GC3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Non-Methane Hydroca	ND	30	ppm-c	CFR60A EPA 25C

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E4E270337 **Work Order #...:** GHQTD1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F070000-360 GHQTD1AD-LCSD
Prep Date.....: 06/02/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4159360 **Analysis Time..:** 18:50
Dilution Factor: 1 **Instrument ID..:** MSB
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**94**	**(70 - 125)**			**EPA-2 TO-15**
	97	**(70 - 125)**	**2.9**	**(0-20)**	**EPA-2 TO-15**
Methylene chloride	**84**	**(75 - 120)**			**EPA-2 TO-15**
	86	**(75 - 120)**	**3.0**	**(0-20)**	**EPA-2 TO-15**
Trichloroethene	**89**	**(70 - 125)**			**EPA-2 TO-15**
	89	**(70 - 125)**	**0.17**	**(0-20)**	**EPA-2 TO-15**
1,1,2,2-Tetrachloroethane	**81**	**(65 - 130)**			**EPA-2 TO-15**
	78	**(65 - 130)**	**3.6**	**(0-20)**	**EPA-2 TO-15**
Toluene	**84**	**(75 - 125)**			**EPA-2 TO-15**
	83	**(75 - 125)**	**0.51**	**(0-20)**	**EPA-2 TO-15**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E4E270337 **Work Order #...:** GHQTD1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F070000-360 GHQTD1AD-LCSD
Prep Date.....: 06/02/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4159360 **Analysis Time..:** 18:50
Dilution Factor: 1 **Instrument ID..:** MSB
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	59.2	55.5	ppb(v/v)	94		EPA-2 TO-15
	59.2	57.2	ppb(v/v)	97	2.9	EPA-2 TO-15
Methylene chloride	58.7	49.2	ppb(v/v)	84		EPA-2 TO-15
	58.7	50.7	ppb(v/v)	86	3.0	EPA-2 TO-15
Trichloroethene	59.5	53.1	ppb(v/v)	89		EPA-2 TO-15
	59.5	53.0	ppb(v/v)	89	0.17	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	55.4	45.0	ppb(v/v)	81		EPA-2 TO-15
	55.4	43.4	ppb(v/v)	78	3.6	EPA-2 TO-15
Toluene	55.7	46.6	ppb(v/v)	84		EPA-2 TO-15
	55.7	46.4	ppb(v/v)	83	0.51	EPA-2 TO-15

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4E270337 **Work Order #...:** GHE3G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F010000-623 GHE3G1AD-LCSD
Prep Date.....: 06/01/04 **Analysis Date..:** 06/01/04
Prep Batch #...: 4153623 **Analysis Time..:** 11:00
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Carbon dioxide	**94**	**(75 - 125)**			**ASTM D1946**
	94	**(75 - 125)**	**0.13**	**(0-20)**	**ASTM D1946**
Methane	**95**	**(75 - 135)**			**ASTM D1946**
	94	**(75 - 135)**	**1.5**	**(0-20)**	**ASTM D1946**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4E270337 **Work Order #...:** GHE3G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F010000-623 GHE3G1AD-LCSD
Prep Date.....: 06/01/04 **Analysis Date..:** 06/01/04
Prep Batch #...: 4153623 **Analysis Time..:** 11:00
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	**1.00**	**0.944**	**%(v/v)**	**94**		**ASTM D1946**
	1.00	**0.945**	**%(v/v)**	**94**	**0.13**	**ASTM D1946**
Methane	**0.0500**	**0.0475**	**%(v/v)**	**95**		**ASTM D1946**
	0.0500	**0.0468**	**%(v/v)**	**94**	**1.5**	**ASTM D1946**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4E270337 **Work Order #...:** GHFW21AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F020000-283 GHFW21AD-LCSD
Prep Date.....: 05/27/04 **Analysis Date..:** 05/27/04
Prep Batch #...: 4154283 **Analysis Time..:** 10:41
Dilution Factor: 1 **Instrument ID..:** GC4
Analyst ID.....: 358011

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hydrogen sulfide	**113**	**(60 - 130)**			**CFR60A EPA 15/16**
	110	**(60 - 130)**	**2.3**	**(0-25)**	**CFR60A EPA 15/16**
Carbonyl sulfide	**114**	**(75 - 140)**			**CFR60A EPA 15/16**
	110	**(75 - 140)**	**3.3**	**(0-25)**	**CFR60A EPA 15/16**
Methyl mercaptan	**113**	**(75 - 130)**			**CFR60A EPA 15/16**
	110	**(75 - 130)**	**2.8**	**(0-25)**	**CFR60A EPA 15/16**
Carbon disulfide	**100**	**(70 - 120)**			**CFR60A EPA 15/16**
	98	**(70 - 120)**	**1.4**	**(0-25)**	**CFR60A EPA 15/16**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4E270337 **Work Order #...:** GHFW21AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F020000-283 GHFW21AD-LCSD
Prep Date.....: 05/27/04 **Analysis Date..:** 05/27/04
Prep Batch #...: 4154283 **Analysis Time..:** 10:41
Dilution Factor: 1 **Instrument ID..:** GC4
Analyst ID.....: 358011

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Hydrogen sulfide	**0.940**	**1.06**	**ppm(v/v)**	**113**		**CFR60A EPA 15/16**
	0.940	**1.04**	**ppm(v/v)**	**110**	**2.3**	**CFR60A EPA 15/16**
Carbonyl sulfide	**1.10**	**1.25**	**ppm(v/v)**	**114**		**CFR60A EPA 15/16**
	1.10	**1.21**	**ppm(v/v)**	**110**	**3.3**	**CFR60A EPA 15/16**
Methyl mercaptan	**1.00**	**1.13**	**ppm(v/v)**	**113**		**CFR60A EPA 15/16**
	1.00	**1.10**	**ppm(v/v)**	**110**	**2.8**	**CFR60A EPA 15/16**
Carbon disulfide	**1.13**	**1.12**	**ppm(v/v)**	**100**		**CFR60A EPA 15/16**
	1.13	**1.11**	**ppm(v/v)**	**98**	**1.4**	**CFR60A EPA 15/16**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4E270337 **Work Order #...:** GHE3T1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F010000-624 GHE3T1AD-LCSD
Prep Date.....: 06/01/04 **Analysis Date..:** 06/01/04
Prep Batch #...: 4153624 **Analysis Time..:** 13:23
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Non-Methane Hydrocar	**98**	**(80 - 120)**			**CFR60A EPA 25C**
	98	**(80 - 120)**	**0.020**	**(0-20)**	**CFR60A EPA 25C**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4E270337 **Work Order #...:** GHE3T1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F010000-624 GHE3T1AD-LCSD
Prep Date.....: 06/01/04 **Analysis Date..:** 06/01/04
Prep Batch #...: 4153624 **Analysis Time..:** 13:23
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Non-Methane Hydrocar	**948**	**926**	**ppm-c**	**98**		**CFR60A EPA 25C**
	948	**927**	**ppm-c**	**98**	**0.020**	**CFR60A EPA 25C**

NOTE(S):

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

Bold print denotes control parameters

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

June 14, 2004

STL LOT NUMBER: **E4E280172**
PO/CONTRACT: 01203520.00

Raymond Huff
SCS Engineers
3711 Long Beach Boulevard
Ninth Floor
Long Beach, CA 90807-3315

Dear Mr. Huff,

This report contains the analytical results for the eight samples received under chain of custody by STL Los Angeles on May 27, 2004. These samples are associated with your Mission Bay LF project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is E87652.

Any matrix related anomaly is footnoted within the report. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page.

Preliminary results were sent via facsimile on June 9, 2004.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000049 pages.

CASE NARRATIVE

Please note that no sampling time was listed on the chain of custody for all MB5 samples. The laboratory logged the samples with out sampling time.

If you have any questions, please feel free to call me at (714) 258-8610.

Sincerely,

Marisol Tabirara

Marisol Tabirara
Project Manager

cc: Project File

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: SCS Engineers	Project Manager: Ray Huff	Date: 5/27/04	Chain of Custody Number: 139958
Address: 8799 Balboa Ave. #290	Telephone Number (Area Code)/Fax Number: (562) 426-9544 / (562) 427-0805	Lab Number: EHE280172	Page 1 of 1
City: San Diego; State: CA; Zip Code: 92123	Site Contact: K. Stackpole	Lab Contact:	
Project Name and Location (State): Mission Bay Landfill, San Diego, CA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 01203520.00			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Summa Canister	Unpreserved	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tedlar Bag	Analysis (Attach list if more space is needed): TO-15	ASTM-D1946 (plus CO + Oxygen)	EPA 15/16	EPA 25C	Special Instructions/ Conditions of Receipt
MB4-Sur	5/27/04	12:40	X											X			X		
MB4-Lfg			X											X			X		
MB4-Sur			X				X								X	X		X	
MB4-Lfg			X				X								X	X		X	
MB5-Sur			X											X			X		
MB5-Lfg			X											X			X		
MB5-Sur			X				X								X	X		X	
MB5-Lfg			X				X								X	X		X	

AP-42 Lfg constituents

000003

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify):

1. Relinquished By: Karen Stackpole	Date: 5/27/04	Time: 10:30	1. Received By: Vincent Padilla	Date: 5/27/04	Time: 16:30
2. Relinquished By: Vincent Padilla	Date: 5/27/04	Time: 1855	2. Received By: [illegible]	Date: 5-27-04	Time: 1855
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 1280
DATE CLEANED: 5·20·04E, 5·20·04F
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5·24·04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	13.24	6-1-04	[illegible]
FINAL PRESSURE (PSIA)	23.51	6-1-04	[illegible]

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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4

SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 2353
DATE CLEANED: 5·20·04E, 5·20·04P
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK --		30"	5·24·04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	13.71	6-1-04	✓
FINAL PRESSURE (PSIA)	24.01	6-1-04	✓

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 318S
DATE CLEANED: 5·20·04E, 5·20·04F
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac (inches Hg) Or PRESS (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5·24·04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	12.84	6-1-04	"
FINAL PRESSURE (PSIA)	24.62	6-1-04	"

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 2226
DATE CLEANED: 5·20·04B, 5·20·04B
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5·24·04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	12.70	6-1-04	"
FINAL PRESSURE (PSIA)	24.85	6-1-04	"

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

Analytical Report

ANALYTICAL REPORT

Mission Bay LF

Lot #: E4E280172

Raymond Huff

SCS Engineers

SEVERN TRENT LABORATORIES, INC.

Marisol Tabirara
Project Manager

June 9, 2004

EXECUTIVE SUMMARY - Detection Highlights

E4E280172

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MB4-SUR 05/27/04 12:40 001				
Hydrogen sulfide	0.56	0.20	ppm(v/v)	CFR60A EPA 15/16
MB4-LFG 05/27/04 12:40 002				
Hydrogen sulfide	0.45	0.20	ppm(v/v)	CFR60A EPA 15/16
MB4-SUR 05/27/04 12:40 003				
Carbon dioxide	5.6	0.018	%(v/v)	ASTM D1946
Oxygen	19	0.18	%(v/v)	ASTM D1946
Nitrogen	70	1.8	%(v/v)	ASTM D1946
Methane	6.8	0.00035	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	82	53	ppm-c	CFR60A EPA 25C
Ethanol	62	44	ppb(v/v)	EPA-2 TO-15
n-Hexane	42	3.6	ppb(v/v)	EPA-2 TO-15
Pentane	130	3.6	ppb(v/v)	EPA-2 TO-15
Propane	600	8.9	ppb(v/v)	EPA-2 TO-15
Acetone	42	18	ppb(v/v)	EPA-2 TO-15
n-Butane	350	3.6	ppb(v/v)	EPA-2 TO-15
MB4-LFG 05/27/04 12:40 004				
Carbon dioxide	4.7	0.018	%(v/v)	ASTM D1946
Oxygen	19	0.18	%(v/v)	ASTM D1946
Nitrogen	70	1.8	%(v/v)	ASTM D1946
Methane	6.5	0.00035	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	83	52	ppm-c	CFR60A EPA 25C
Acetone	28	18	ppb(v/v)	EPA-2 TO-15
n-Butane	330	3.5	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	7.5	3.5	ppb(v/v)	EPA-2 TO-15
n-Hexane	48	3.5	ppb(v/v)	EPA-2 TO-15
Pentane	120	3.5	ppb(v/v)	EPA-2 TO-15
Propane	620	8.8	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	8.0	3.5	ppb(v/v)	EPA-2 TO-15
MB5-SUR 05/27/04 005				
Hydrogen sulfide	0.47	0.20	ppm(v/v)	CFR60A EPA 15/16

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E4E280172

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MB5-LFG 05/27/04 006				
Hydrogen sulfide	1.6	0.20	ppm(v/v)	CFR60A EPA 15/16
MB5-SUR 05/27/04 007				
Carbon dioxide	2.1	0.019	%(v/v)	ASTM D1946
Oxygen	20	0.19	%(v/v)	ASTM D1946
Nitrogen	77	1.9	%(v/v)	ASTM D1946
Methane	1.3	0.00038	%(v/v)	ASTM D1946
Propane	360	5.0	ppb(v/v)	EPA-2 TO-15
Acetone	30	10	ppb(v/v)	EPA-2 TO-15
n-Butane	150	2.0	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	2.2	2.0	ppb(v/v)	EPA-2 TO-15
n-Hexane	5.3	2.0	ppb(v/v)	EPA-2 TO-15
Pentane	29	2.0	ppb(v/v)	EPA-2 TO-15
MB5-LFG 05/27/04 008				
Carbon dioxide	5.0	0.020	%(v/v)	ASTM D1946
Oxygen	19	0.20	%(v/v)	ASTM D1946
Nitrogen	70	2.0	%(v/v)	ASTM D1946
Methane	7.4	0.00039	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	78	58	ppm-c	CFR60A EPA 25C
n-Butane	800	3.9	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	6.5	3.9	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	25	3.9	ppb(v/v)	EPA-2 TO-15
n-Hexane	60	3.9	ppb(v/v)	EPA-2 TO-15
Pentane	230	3.9	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	5.7	3.9	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	24	3.9	ppb(v/v)	EPA-2 TO-15
o-Xylene	9.8	3.9	ppb(v/v)	EPA-2 TO-15
Propane	1600	98	ppb(v/v)	EPA-2 TO-15

ANALYTICAL METHODS SUMMARY

E4E280172

PARAMETER	ANALYTICAL METHOD
Fixed Gases	ASTM D1946
Non-Condensable	CFR60A EPA 25C
Sulfur Compounds	CFR60A EPA 15/16
Volatile Organics by TO15	EPA-2 TO-15

References:

ASTM Annual Book Of ASTM Standards.

CFR60A "Test Methods", 40 CFR, Part 60, Appendix A, July 1, 1993.

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

E4E280172

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GG9M8	001	MB4-SUR	05/27/04	12:40
GG9NE	002	MB4-LFG	05/27/04	12:40
GG9NH	003	MB4-SUR	05/27/04	12:40
GG9NP	004	MB4-LFG	05/27/04	12:40
GG9NW	005	MB5-SUR	05/27/04	
GG9N2	006	MB5-LFG	05/27/04	
GG9N5	007	MB5-SUR	05/27/04	
GG9N8	008	MB5-LFG	05/27/04	

NOTE(S):

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

SCS ENGINEERS

Client Sample ID: MB4-SUR

GC Volatiles

Lot-Sample #...:	E4E280172-001	**Work Order #...:**	GG9M81AA	**Matrix.....:**	AIR
Date Sampled...:	05/27/04 12:40	**Date Received..:**	05/27/04		
Prep Date.....:	05/28/04	**Analysis Date..:**	05/28/04		
Prep Batch #...:	4154202	**Analysis Time..:**	10:55		
Dilution Factor:	1				
Analyst ID.....:	358011	**Instrument ID..:**	GC4		
		Method.....:	CFR60A EPA 15/16		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	**0.56**	**0.20**	**ppm(v/v)**
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB4-LFG

GC Volatiles

Lot-Sample #...: E4E280172-002 **Work Order #...:** GG9NE1AA **Matrix.....:** AIR
Date Sampled...: 05/27/04 12:40 **Date Received..:** 05/27/04
Prep Date.....: 05/28/04 **Analysis Date..:** 05/28/04
Prep Batch #...: 4154202 **Analysis Time..:** 11:13
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC4
Method.....: CFR60A EPA 15/16

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	**0.45**	**0.20**	**ppm(v/v)**
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB4-SUR

GC/MS Volatiles

Lot-Sample #...:	E4E280172-003	**Work Order #...:**	GG9NH1AF	**Matrix.....:**	AIR
Date Sampled...:	05/27/04 12:40	**Date Received..:**	05/27/04		
Prep Date.....:	06/03/04	**Analysis Date..:**	06/03/04		
Prep Batch #...:	4159360	**Analysis Time..:**	02:52		
Dilution Factor:	1.78				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,1-Dichloroethane	ND	3.6	ppb(v/v)
1,2-Dichloroethane	ND	3.6	ppb(v/v)
trans-1,2-Dichloroethene	ND	3.6	ppb(v/v)
1,1-Dichloroethene	ND	3.6	ppb(v/v)
Dichlorofluoromethane	ND	3.6	ppb(v/v)
1,2-Dichloropropane	ND	3.6	ppb(v/v)
Ethanol	**62**	**44**	**ppb(v/v)**
Ethylbenzene	ND	3.6	ppb(v/v)
n-Hexane	**42**	**3.6**	**ppb(v/v)**
Methylene chloride	ND	3.6	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	18	ppb(v/v)
Pentane	**130**	**3.6**	**ppb(v/v)**
Propane	**600**	**8.9**	**ppb(v/v)**
2-Propanol	ND	18	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	3.6	ppb(v/v)
Tetrachloroethene	ND	3.6	ppb(v/v)
1,1,1-Trichloroethane	ND	3.6	ppb(v/v)
Trichloroethene	ND	3.6	ppb(v/v)
Trichlorofluoromethane	ND	3.6	ppb(v/v)
Vinyl chloride	ND	3.6	ppb(v/v)
m-Xylene & p-Xylene	ND	3.6	ppb(v/v)
o-Xylene	ND	3.6	ppb(v/v)
Acetone	**42**	**18**	**ppb(v/v)**
Acrylonitrile	ND	18	ppb(v/v)
Bromodichloromethane	ND	3.6	ppb(v/v)
n-Butane	**350**	**3.6**	**ppb(v/v)**
2-Butanone (MEK)	ND	18	ppb(v/v)
Carbon disulfide	ND	18	ppb(v/v)
Carbon tetrachloride	ND	3.6	ppb(v/v)
Chlorobenzene	ND	3.6	ppb(v/v)
Chlorodifluoromethane	ND	3.6	ppb(v/v)
Chloroethane	ND	7.1	ppb(v/v)
Chloroform	ND	3.6	ppb(v/v)
Chloromethane	ND	7.1	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	3.6	ppb(v/v)
1,2-Dichlorobenzene	ND	3.6	ppb(v/v)

(Continued on next page)

SCS ENGINEERS

Client Sample ID: MB4-SUR

GC/MS Volatiles

Lot-Sample #...: E4E280172-003 **Work Order #...:** GG9NH1AF **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,3-Dichlorobenzene	ND	3.6	ppb(v/v)
1,4-Dichlorobenzene	ND	3.6	ppb(v/v)
Dichlorodifluoromethane	ND	3.6	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB4-SUR

GC Volatiles

Lot-Sample #...:	E4E280172-003	**Work Order #...:**	GG9NH1AC	**Matrix.....:**	AIR
Date Sampled...:	05/27/04 12:40	**Date Received..:**	05/27/04		
Prep Date.....:	06/01/04	**Analysis Date..:**	06/01/04		
Prep Batch #...:	4153623	**Analysis Time..:**	19:25		
Dilution Factor:	1.77				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**5.6**	**0.018**	**%(v/v)**
Oxygen	**19**	**0.18**	**%(v/v)**
Nitrogen	**70**	**1.8**	**%(v/v)**
Methane	**6.8**	**0.00035**	**%(v/v)**
Carbon monoxide	ND	0.0018	%(v/v)
Ethane	ND	0.00088	%(v/v)

SCS ENGINEERS

Client Sample ID: MB4-SUR

GC Volatiles

Lot-Sample #...:	E4E280172-003	**Work Order #...:**	GG9NH1AE	**Matrix.....:**	AIR
Date Sampled...:	05/27/04 12:40	**Date Received..:**	05/27/04		
Prep Date.....:	06/01/04	**Analysis Date..:**	06/01/04		
Prep Batch #...:	4153624	**Analysis Time..:**	19:25		
Dilution Factor:	1.77				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	**82**	**53**	**ppm-c**

SCS ENGINEERS

Client Sample ID: MB4-LFG

GC/MS Volatiles

Lot-Sample #...: E4E280172-004 **Work Order #...:** GG9NP1AF **Matrix.....:** AIR
Date Sampled...: 05/27/04 12:40 **Date Received..:** 05/27/04
Prep Date.....: 06/03/04 **Analysis Date..:** 06/03/04
Prep Batch #...: 4159360 **Analysis Time..:** 03:29
Dilution Factor: 1.75
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**28**	**18**	**ppb(v/v)**
Acrylonitrile	ND	18	ppb(v/v)
Bromodichloromethane	ND	3.5	ppb(v/v)
n-Butane	**330**	**3.5**	**ppb(v/v)**
2-Butanone (MEK)	ND	18	ppb(v/v)
Carbon disulfide	ND	18	ppb(v/v)
Carbon tetrachloride	ND	3.5	ppb(v/v)
Chlorobenzene	ND	3.5	ppb(v/v)
Chlorodifluoromethane	ND	3.5	ppb(v/v)
Chloroethane	ND	7.0	ppb(v/v)
Chloroform	ND	3.5	ppb(v/v)
Chloromethane	ND	7.0	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	3.5	ppb(v/v)
1,2-Dichlorobenzene	ND	3.5	ppb(v/v)
1,3-Dichlorobenzene	ND	3.5	ppb(v/v)
1,4-Dichlorobenzene	ND	3.5	ppb(v/v)
Dichlorodifluoromethane	ND	3.5	ppb(v/v)
1,1-Dichloroethane	ND	3.5	ppb(v/v)
1,2-Dichloroethane	ND	3.5	ppb(v/v)
trans-1,2-Dichloroethene	ND	3.5	ppb(v/v)
1,1-Dichloroethene	ND	3.5	ppb(v/v)
Dichlorofluoromethane	ND	3.5	ppb(v/v)
1,2-Dichloropropane	ND	3.5	ppb(v/v)
Ethanol	ND	44	ppb(v/v)
Ethylbenzene	**7.5**	**3.5**	**ppb(v/v)**
n-Hexane	**48**	**3.5**	**ppb(v/v)**
Methylene chloride	ND	3.5	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	18	ppb(v/v)
Pentane	**120**	**3.5**	**ppb(v/v)**
Propane	**620**	**8.8**	**ppb(v/v)**
2-Propanol	ND	18	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	3.5	ppb(v/v)
Tetrachloroethene	ND	3.5	ppb(v/v)
1,1,1-Trichloroethane	ND	3.5	ppb(v/v)
Trichloroethene	ND	3.5	ppb(v/v)
Trichlorofluoromethane	ND	3.5	ppb(v/v)

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SCS ENGINEERS

Client Sample ID: MB4-LFG

GC Volatiles

Lot-Sample #...:	E4E280172-004	**Work Order #...:**	GG9NP1AC	**Matrix.....:**	AIR
Date Sampled...:	05/27/04 12:40	**Date Received..:**	05/27/04		
Prep Date.....:	06/01/04	**Analysis Date..:**	06/01/04		
Prep Batch #...:	4153623	**Analysis Time..:**	20:39		
Dilution Factor:	1.75				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**4.7**	**0.018**	**%(v/v)**
Oxygen	**19**	**0.18**	**%(v/v)**
Nitrogen	**70**	**1.8**	**%(v/v)**
Methane	**6.5**	**0.00035**	**%(v/v)**
Carbon monoxide	ND	0.0018	%(v/v)
Ethane	ND	0.00088	%(v/v)

SCS ENGINEERS

Client Sample ID: MB4-LFG

GC Volatiles

Lot-Sample #...:	E4E280172-004	Work Order #...:	GG9NP1AE	Matrix.....:	AIR
Date Sampled...:	05/27/04 12:40	Date Received..:	05/27/04		
Prep Date.....:	06/01/04	Analysis Date..:	06/01/04		
Prep Batch #...:	4153624	Analysis Time..:	20:39		
Dilution Factor:	1.75				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	83	52	ppm-c

SCS ENGINEERS

Client Sample ID: MB5-SUR

GC Volatiles

Lot-Sample #...:	E4E280172-005	**Work Order #...:**	GG9NW1AA	**Matrix.....:**	AIR
Date Sampled...:	05/27/04	**Date Received..:**	05/27/04		
Prep Date.....:	05/28/04	**Analysis Date..:**	05/28/04		
Prep Batch #...:	4154202	**Analysis Time..:**	11:32		
Dilution Factor:	1				
Analyst ID.....:	358011	**Instrument ID..:**	GC4		
		Method.....:	CFR60A EPA 15/16		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	**0.47**	**0.20**	**ppm(v/v)**
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB5-LFG

GC Volatiles

Lot-Sample #...:	E4E280172-006	**Work Order #...:**	GG9N21AA	**Matrix.....:**	AIR
Date Sampled...:	05/27/04	**Date Received..:**	05/27/04		
Prep Date.....:	05/28/04	**Analysis Date..:**	05/28/04		
Prep Batch #...:	4154202	**Analysis Time..:**	11:51		
Dilution Factor:	1				
Analyst ID.....:	358011	**Instrument ID..:**	GC4		
		Method.....:	CFR60A EPA 15/16		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	**1.6**	**0.20**	**ppm(v/v)**
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB5-SUR

GC/MS Volatiles

Lot-Sample #...:	E4E280172-007	**Work Order #...:**	GG9N51AF	**Matrix.....:**	AIR
Date Sampled...:	05/27/04	**Date Received..:**	05/27/04		
Prep Date.....:	06/03/04	**Analysis Date..:**	06/03/04		
Prep Batch #...:	4159360	**Analysis Time..:**	04:06		
Dilution Factor:	1				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Propane	**360**	**5.0**	**ppb(v/v)**
2-Propanol	ND	10	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)
Tetrachloroethene	ND	2.0	ppb(v/v)
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)
Trichloroethene	ND	2.0	ppb(v/v)
Trichlorofluoromethane	ND	2.0	ppb(v/v)
Vinyl chloride	ND	2.0	ppb(v/v)
m-Xylene & p-Xylene	ND	2.0	ppb(v/v)
o-Xylene	ND	2.0	ppb(v/v)
Acetone	**30**	**10**	**ppb(v/v)**
Acrylonitrile	ND	10	ppb(v/v)
Bromodichloromethane	ND	2.0	ppb(v/v)
n-Butane	**150**	**2.0**	**ppb(v/v)**
2-Butanone (MEK)	ND	10	ppb(v/v)
Carbon disulfide	ND	10	ppb(v/v)
Carbon tetrachloride	ND	2.0	ppb(v/v)
Chlorobenzene	ND	2.0	ppb(v/v)
Chlorodifluoromethane	**2.2**	**2.0**	**ppb(v/v)**
Chloroethane	ND	4.0	ppb(v/v)
Chloroform	ND	2.0	ppb(v/v)
Chloromethane	ND	4.0	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)
1,4-Dichlorobenzene	ND	2.0	ppb(v/v)
Dichlorodifluoromethane	ND	2.0	ppb(v/v)
1,1-Dichloroethane	ND	2.0	ppb(v/v)
1,2-Dichloroethane	ND	2.0	ppb(v/v)
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)
1,1-Dichloroethene	ND	2.0	ppb(v/v)
Dichlorofluoromethane	ND	2.0	ppb(v/v)
1,2-Dichloropropane	ND	2.0	ppb(v/v)
Ethanol	ND	25	ppb(v/v)
Ethylbenzene	ND	2.0	ppb(v/v)
n-Hexane	**5.3**	**2.0**	**ppb(v/v)**
Methylene chloride	ND	2.0	ppb(v/v)

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SCS ENGINEERS

Client Sample ID: MB5-SUR

GC/MS Volatiles

Lot-Sample #...: E4E280172-007 **Work Order #...:** GG9N51AF **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)
Pentane	**29**	**2.0**	**ppb(v/v)**

SCS ENGINEERS

Client Sample ID: MB5-SUR

GC Volatiles

Lot-Sample #...:	E4E280172-007	**Work Order #...:**	GG9N51AC	**Matrix.....:**	AIR
Date Sampled...:	05/27/04	**Date Received..:**	05/27/04		
Prep Date.....:	06/01/04	**Analysis Date..:**	06/01/04		
Prep Batch #...:	4153623	**Analysis Time..:**	21:52		
Dilution Factor:	1.91				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**2.1**	**0.019**	**%(v/v)**
Oxygen	**20**	**0.19**	**%(v/v)**
Nitrogen	**77**	**1.9**	**%(v/v)**
Methane	**1.3**	**0.00038**	**%(v/v)**
Carbon monoxide	ND	0.0019	%(v/v)
Ethane	ND	0.00096	%(v/v)

SCS ENGINEERS

Client Sample ID: MB5-SUR

GC Volatiles

Lot-Sample #...:	E4E280172-007	**Work Order #...:**	GG9N51AE	**Matrix.....:**	AIR
Date Sampled...:	05/27/04	**Date Received..:**	05/27/04		
Prep Date.....:	06/01/04	**Analysis Date..:**	06/01/04		
Prep Batch #...:	4153624	**Analysis Time..:**	21:52		
Dilution Factor:	1.95				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	ND	58	ppm-c

SCS ENGINEERS

Client Sample ID: MB5-LFG

GC/MS Volatiles

Lot-Sample #...:	E4E280172-008	**Work Order #...:**	GG9N81AF	**Matrix.....:**	AIR
Date Sampled...:	05/27/04	**Date Received..:**	05/27/04		
Prep Date.....:	06/03/04	**Analysis Date..:**	06/03/04		
Prep Batch #...:	4159360	**Analysis Time..:**	04:43		
Dilution Factor:	1.95				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	20	ppb(v/v)
Acrylonitrile	ND	20	ppb(v/v)
Bromodichloromethane	ND	3.9	ppb(v/v)
n-Butane	**800**	**3.9**	**ppb(v/v)**
2-Butanone (MEK)	ND	20	ppb(v/v)
Carbon disulfide	ND	20	ppb(v/v)
Carbon tetrachloride	ND	3.9	ppb(v/v)
Chlorobenzene	ND	3.9	ppb(v/v)
Chlorodifluoromethane	**6.5**	**3.9**	**ppb(v/v)**
Chloroethane	ND	7.8	ppb(v/v)
Chloroform	ND	3.9	ppb(v/v)
Chloromethane	ND	7.8	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	3.9	ppb(v/v)
1,2-Dichlorobenzene	ND	3.9	ppb(v/v)
1,3-Dichlorobenzene	ND	3.9	ppb(v/v)
1,4-Dichlorobenzene	ND	3.9	ppb(v/v)
Dichlorodifluoromethane	ND	3.9	ppb(v/v)
1,1-Dichloroethane	ND	3.9	ppb(v/v)
1,2-Dichloroethane	ND	3.9	ppb(v/v)
trans-1,2-Dichloroethene	ND	3.9	ppb(v/v)
1,1-Dichloroethene	ND	3.9	ppb(v/v)
Dichlorofluoromethane	ND	3.9	ppb(v/v)
1,2-Dichloropropane	ND	3.9	ppb(v/v)
Ethanol	ND	49	ppb(v/v)
Ethylbenzene	**25**	**3.9**	**ppb(v/v)**
n-Hexane	**60**	**3.9**	**ppb(v/v)**
Methylene chloride	ND	3.9	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	20	ppb(v/v)
Pentane	**230**	**3.9**	**ppb(v/v)**
2-Propanol	ND	20	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	3.9	ppb(v/v)
Tetrachloroethene	ND	3.9	ppb(v/v)
1,1,1-Trichloroethane	ND	3.9	ppb(v/v)
Trichloroethene	ND	3.9	ppb(v/v)
Trichlorofluoromethane	ND	3.9	ppb(v/v)
Vinyl chloride	**5.7**	**3.9**	**ppb(v/v)**

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SCS ENGINEERS

Client Sample ID: MB5-LFG

GC/MS Volatiles

Lot-Sample #...: E4E280172-008 Work Order #...: GG9N81AF Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
m-Xylene & p-Xylene	24	3.9	ppb(v/v)
o-Xylene	9.8	3.9	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB5-LFG

GC/MS Volatiles

Lot-Sample #...:	E4E280172-008	Work Order #...:	GG9N82AF	Matrix.....:	AIR
Date Sampled...:	05/27/04	Date Received..:	05/27/04		
Prep Date.....:	06/03/04	Analysis Date..:	06/03/04		
Prep Batch #...:	4159360	Analysis Time..:	10:43		
Dilution Factor:	19.53				
Analyst ID.....:	117751	Instrument ID..:	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Propane	1600	98	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB5-LFG

GC Volatiles

Lot-Sample #...:	E4E280172-008	**Work Order #...:**	GG9N81AC	**Matrix.....:**	AIR
Date Sampled...:	05/27/04	**Date Received..:**	05/27/04		
Prep Date.....:	06/01/04	**Analysis Date..:**	06/01/04		
Prep Batch #...:	4153623	**Analysis Time..:**	23:06		
Dilution Factor:	1.95				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**5.0**	**0.020**	**%(v/v)**
Oxygen	**19**	**0.20**	**%(v/v)**
Nitrogen	**70**	**2.0**	**%(v/v)**
Methane	**7.4**	**0.00039**	**%(v/v)**
Carbon monoxide	ND	0.0020	%(v/v)
Ethane	ND	0.00098	%(v/v)

SCS ENGINEERS

Client Sample ID: MB5-LFG

GC Volatiles

Lot-Sample #...:	E4E280172-008	Work Order #...:	GG9N81AE	Matrix.....:	AIR
Date Sampled...:	05/27/04	Date Received..:	05/27/04		
Prep Date.....:	06/01/04	Analysis Date..:	06/01/04		
Prep Batch #...:	4153624	Analysis Time..:	23:06		
Dilution Factor:	1.95				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	78	58	ppm-c

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E4E280172

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	CFR60A EPA 15/16		4154202	
002	AIR	CFR60A EPA 15/16		4154202	
003	AIR	EPA-2 TO-15		4159360	
	AIR	ASTM D1946		4153623	
	AIR	CFR60A EPA 25C		4153624	
004	AIR	EPA-2 TO-15		4159360	
	AIR	ASTM D1946		4153623	
	AIR	CFR60A EPA 25C		4153624	
005	AIR	CFR60A EPA 15/16		4154202	
006	AIR	CFR60A EPA 15/16		4154202	
007	AIR	EPA-2 TO-15		4159360	
	AIR	ASTM D1946		4153623	
	AIR	CFR60A EPA 25C		4153624	
008	AIR	EPA-2 TO-15		4159360	
	AIR	ASTM D1946		4153623	
	AIR	CFR60A EPA 25C		4153624	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4E280172
MB Lot-Sample #: M4F070000-360

Analysis Date..: 06/02/04
Dilution Factor: 1

Work Order #...: GHQTD1AA

Prep Date.....: 06/02/04
Prep Batch #...: 4159360

Analyst ID.....: 117751

Matrix.....: AIR

Analysis Time..: 19:50
Instrument ID..: MSB

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ppb(v/v)	EPA-2 TO-15
Acrylonitrile	ND	10	ppb(v/v)	EPA-2 TO-15
Bromodichloromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Carbon disulfide	ND	10	ppb(v/v)	EPA-2 TO-15
Carbon tetrachloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chloroethane	ND	4.0	ppb(v/v)	EPA-2 TO-15
Chloroform	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chloromethane	ND	4.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Dichlorofluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Ethanol	ND	25	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Trichlorofluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
n-Hexane	ND	2.0	ppb(v/v)	EPA-2 TO-15
2-Propanol	ND	10	ppb(v/v)	EPA-2 TO-15
Methylene chloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
Pentane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Tetrachloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Trichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
o-Xylene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	ND	10	ppb(v/v)	EPA-2 TO-15
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)	EPA-2 TO-15
n-Butane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Propane	ND	5.0	ppb(v/v)	EPA-2 TO-15

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4E280172 **Work Order #...:** GHQTD1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4E280172
MB Lot-Sample #: M4F010000-623

Analysis Date..: 06/01/04
Dilution Factor: 1

Work Order #...: GHE3G1AA

Prep Date.....: 06/01/04
Prep Batch #...: 4153623

Analyst ID.....: 101605

Matrix.....: AIR

Analysis Time..: 14:11
Instrument ID..: GC3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon dioxide	ND	0.010	%(v/v)	ASTM D1946
Oxygen	ND	0.10	%(v/v)	ASTM D1946
Nitrogen	ND	1.0	%(v/v)	ASTM D1946
Methane	ND	0.00020	%(v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	%(v/v)	ASTM D1946
Ethane	ND	0.00050	%(v/v)	ASTM D1946

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4E280172
MB Lot-Sample #: M4F020000-202

Analysis Date..: 05/28/04
Dilution Factor: 1

Work Order #...: GHFLE1AA

Prep Date.....: 05/28/04
Prep Batch #...: 4154202

Analyst ID.....: 358011

Matrix.....: AIR

Analysis Time..: 10:36
Instrument ID..: GC4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hydrogen sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Carbonyl sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Methyl mercaptan	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Ethyl mercaptan	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Dimethyl sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4E280172
MB Lot-Sample #: M4F010000-624

Analysis Date..: 06/01/04
Dilution Factor: 1

Work Order #...: GHE3T1AA

Prep Date.....: 06/01/04
Prep Batch #...: 4153624

Analyst ID.....: 101605

Matrix.....: AIR

Analysis Time..: 14:11
Instrument ID..: GC3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Non-Methane Hydroca	ND	30	ppm-c	CFR60A EPA 25C

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E4E280172 **Work Order #...:** GHQTD1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F070000-360 GHQTD1AD-LCSD
Prep Date.....: 06/02/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4159360 **Analysis Time..:** 18:50
Dilution Factor: 1 **Instrument ID..:** MSB
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**94**	**(70 - 125)**			**EPA-2 TO-15**
	97	**(70 - 125)**	**2.9**	**(0-20)**	**EPA-2 TO-15**
Methylene chloride	**84**	**(75 - 120)**			**EPA-2 TO-15**
	86	**(75 - 120)**	**3.0**	**(0-20)**	**EPA-2 TO-15**
Trichloroethene	**89**	**(70 - 125)**			**EPA-2 TO-15**
	89	**(70 - 125)**	**0.17**	**(0-20)**	**EPA-2 TO-15**
1,1,2,2-Tetrachloroethane	**81**	**(65 - 130)**			**EPA-2 TO-15**
	78	**(65 - 130)**	**3.6**	**(0-20)**	**EPA-2 TO-15**
Toluene	**84**	**(75 - 125)**			**EPA-2 TO-15**
	83	**(75 - 125)**	**0.51**	**(0-20)**	**EPA-2 TO-15**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E4E280172 **Work Order #...:** GHQTD1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F070000-360 GHQTD1AD-LCSD
Prep Date.....: 06/02/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4159360 **Analysis Time..:** 18:50
Dilution Factor: 1 **Instrument ID..:** MSB
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**59.2**	**55.5**	**ppb(v/v)**	**94**		**EPA-2 TO-15**
	59.2	**57.2**	**ppb(v/v)**	**97**	**2.9**	**EPA-2 TO-15**
Methylene chloride	**58.7**	**49.2**	**ppb(v/v)**	**84**		**EPA-2 TO-15**
	58.7	**50.7**	**ppb(v/v)**	**86**	**3.0**	**EPA-2 TO-15**
Trichloroethene	**59.5**	**53.1**	**ppb(v/v)**	**89**		**EPA-2 TO-15**
	59.5	**53.0**	**ppb(v/v)**	**89**	**0.17**	**EPA-2 TO-15**
1,1,2,2-Tetrachloroethane	**55.4**	**45.0**	**ppb(v/v)**	**81**		**EPA-2 TO-15**
	55.4	**43.4**	**ppb(v/v)**	**78**	**3.6**	**EPA-2 TO-15**
Toluene	**55.7**	**46.6**	**ppb(v/v)**	**84**		**EPA-2 TO-15**
	55.7	**46.4**	**ppb(v/v)**	**83**	**0.51**	**EPA-2 TO-15**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4E280172 **Work Order #...:** GHE3G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F010000-623 GHE3G1AD-LCSD
Prep Date.....: 06/01/04 **Analysis Date..:** 06/01/04
Prep Batch #...: 4153623 **Analysis Time..:** 11:00
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Carbon dioxide	**94**	**(75 - 125)**			**ASTM D1946**
	94	**(75 - 125)**	**0.13**	**(0-20)**	**ASTM D1946**
Methane	**95**	**(75 - 135)**			**ASTM D1946**
	94	**(75 - 135)**	**1.5**	**(0-20)**	**ASTM D1946**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4E280172 **Work Order #...:** GHE3G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F010000-623 GHE3G1AD-LCSD
Prep Date.....: 06/01/04 **Analysis Date..:** 06/01/04
Prep Batch #...: 4153623 **Analysis Time..:** 11:00
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	**1.00**	**0.944**	**%(v/v)**	**94**		**ASTM D1946**
	1.00	**0.945**	**%(v/v)**	**94**	**0.13**	**ASTM D1946**
Methane	**0.0500**	**0.0475**	**%(v/v)**	**95**		**ASTM D1946**
	0.0500	**0.0468**	**%(v/v)**	**94**	**1.5**	**ASTM D1946**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4E280172 **Work Order #...:** GHFLE1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F020000-202 GHFLE1AD-LCSD
Prep Date.....: 05/28/04 **Analysis Date..:** 05/28/04
Prep Batch #...: 4154202 **Analysis Time..:** 10:10
Dilution Factor: 1 **Instrument ID..:** GC4
Analyst ID.....: 358011

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hydrogen sulfide	**122**	**(60 - 130)**			**CFR60A EPA 15/16**
	117	**(60 - 130)**	**3.6**	**(0-25)**	**CFR60A EPA 15/16**
Carbonyl sulfide	**123**	**(75 - 140)**			**CFR60A EPA 15/16**
	119	**(75 - 140)**	**3.6**	**(0-25)**	**CFR60A EPA 15/16**
Methyl mercaptan	**124**	**(75 - 130)**			**CFR60A EPA 15/16**
	118	**(75 - 130)**	**4.6**	**(0-25)**	**CFR60A EPA 15/16**
Carbon disulfide	**109**	**(70 - 120)**			**CFR60A EPA 15/16**
	104	**(70 - 120)**	**4.8**	**(0-25)**	**CFR60A EPA 15/16**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4E280172 **Work Order #...:** GHFLE1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F020000-202 GHFLE1AD-LCSD
Prep Date.....: 05/28/04 **Analysis Date..:** 05/28/04
Prep Batch #...: 4154202 **Analysis Time..:** 10:10
Dilution Factor: 1 **Instrument ID..:** GC4
Analyst ID.....: 358011

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Hydrogen sulfide	**0.940**	**1.14**	**ppm(v/v)**	**122**		**CFR60A EPA 15/16**
	0.940	**1.10**	**ppm(v/v)**	**117**	**3.6**	**CFR60A EPA 15/16**
Carbonyl sulfide	**1.10**	**1.36**	**ppm(v/v)**	**123**		**CFR60A EPA 15/16**
	1.10	**1.31**	**ppm(v/v)**	**119**	**3.6**	**CFR60A EPA 15/16**
Methyl mercaptan	**1.00**	**1.24**	**ppm(v/v)**	**124**		**CFR60A EPA 15/16**
	1.00	**1.18**	**ppm(v/v)**	**118**	**4.6**	**CFR60A EPA 15/16**
Carbon disulfide	**1.13**	**1.24**	**ppm(v/v)**	**109**		**CFR60A EPA 15/16**
	1.13	**1.18**	**ppm(v/v)**	**104**	**4.8**	**CFR60A EPA 15/16**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4E280172 **Work Order #...:** GHE3T1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F010000-624 GHE3T1AD-LCSD
Prep Date.....: 06/01/04 **Analysis Date..:** 06/01/04
Prep Batch #...: 4153624 **Analysis Time..:** 13:23
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Non-Methane Hydrocar	**98**	**(80 - 120)**			**CFR60A EPA 25C**
	98	**(80 - 120)**	**0.020**	**(0-20)**	**CFR60A EPA 25C**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4E280172 **Work Order #...:** GHE3T1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F010000-624 GHE3T1AD-LCSD
Prep Date.....: 06/01/04 **Analysis Date..:** 06/01/04
Prep Batch #...: 4153624 **Analysis Time..:** 13:23
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Non-Methane Hydrocar	**948**	**926**	**ppm-c**	**98**		**CFR60A EPA 25C**
	948	**927**	**ppm-c**	**98**	**0.020**	**CFR60A EPA 25C**

NOTE(S):

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

Bold print denotes control parameters

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

June 16, 2004

STL LOT NUMBER: **E4F010166**
PO/CONTRACT: 01203520.00

Raymond Huff
SCS Engineers
3711 Long Beach Boulevard
Ninth Floor
Long Beach, CA 90807-3315

Dear Mr. Huff,

This report contains the analytical results for the eight samples received under chain of custody by STL Los Angeles on May 28, 2004. These samples are associated with your Mission Bay LF project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is E87652.

Any matrix related anomaly is footnoted within the report. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page.

Preliminary results were sent via facsimile on June 15, 2004.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000055 pages.

CASE NARRATIVE

For EPA TO-15 analysis, the continuing calibration standard for Chlorodifluoromethane was not analyzed. The standard has expired and a replacement has been unavailable. The results for this analyte were reported as estimated. This was brought to Ms. Gabrielle Fourie's attention on June 15, 2004.

If you have any questions, please feel free to call me at (714) 258-8610.

Sincerely,

Marisol Tabirara

Marisol Tabirara
Project Manager

cc: Project File

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: SCS Engineers	Project Manager: Ray Huff	Date: 5/28/04	Chain of Custody Number: 139957
Address: 8799 Balboa Ave #290	Telephone Number (Area Code)/Fax Number: (562) 426-9544 / (562) 427-0805	Lab Number: E4F010166	Page 1 of 1
City: San Diego; State: CA; Zip Code: 92123	Site Contact: K. Stackpole	Lab Contact:	
Project Name and Location (State): Mission Bay Landfill, San Diego, CA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 01203520.00			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Summa Canister	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tedlar Bag	TO-15	ASTM-D1946 (+CO2 extra)	EPA 15/16	EPA 25C	Special Instructions/ Conditions of Receipt
MB6-Sur	5/28/04	1:00 pm	X										X			X		
MB6-Lfg			X										X			X		
MB6-Sur			X				X							X	X		X	
MB6-Lfg			X				X							X	X		X	
MB7-Sur		5:50 pm	X										X			X		
MB7-Lfg			X										X			X		
MB7-Sur			X				X							X	X		X	
MB7-Lfg			X				X							X	X		X	

AP-42 Lfg constituents

000003

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify):

1. Relinquished By: Karen Stackpole	Date: 5/28/04	Time: 5:50 pm	1. Received By: Vinee Padilla	Date: 5/28/04	Time: 19:50
2. Relinquished By: Vincent Padilla	Date: 5/28/04	Time: 19:37	2. Received By: [illegible]	Date: 5-28-04	Time: 19:37
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 2334
DATE CLEANED: 5·20·04E, 5·20·04F
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5·24·04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	13.61	6-2-04	G
FINAL PRESSURE (PSIA)	26.39	6-2-04	G

Pressurization Gas: N2

COMMENTS:
19390

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 3078
DATE CLEANED: ~~5·20·04E~~, 5·20·04F
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5·24·04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	13.77	6-2-04	Cy
FINAL PRESSURE (PSIA)	24.92	6-2-04	Cy

Pressurization Gas: N2

COMMENTS: 1.8097

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 3331
DATE CLEANED: ~~5·20·04D~~, 5·20·04F
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : _____ hrs. / mins.
Flow setting: _____ ml/min
Initials:

READING	TIME	Vac (inches Hg) Or PRESS (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5·24·04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	10.56	6-2-04	G
FINAL PRESSURE (PSIA)	20.81	6-2-04	G

Pressurization Gas: N2

COMMENTS:
1.970 6

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 3036
DATE CLEANED: ~~5·20·04E~~ 5·20·04F
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5·24·04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	10.76	6-02-04	y
FINAL PRESSURE (PSIA)	20.56	6-02-04	y

Pressurization Gas: N_2

COMMENTS: 1.9/08

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

Analytical Report

ANALYTICAL REPORT

Mission Bay LF

Lot #: E4F010166

Raymond Huff

SCS Engineers

SEVERN TRENT LABORATORIES, INC.

Marisol Tabirara
Project Manager

June 15, 2004

EXECUTIVE SUMMARY - Detection Highlights

E4F010166

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MB6-SUR 05/28/04 13:00 001				
Hydrogen sulfide	0.37	0.20	ppm(v/v)	CFR60A EPA 15/16
MB6-LFG 05/28/04 13:00 002				
Hydrogen sulfide	1.0	0.20	ppm(v/v)	CFR60A EPA 15/16
MB6-SUR 05/28/04 13:00 003				
Carbon dioxide	6.0	0.019	%(v/v)	ASTM D1946
Oxygen	16	0.19	%(v/v)	ASTM D1946
Nitrogen	67	1.9	%(v/v)	ASTM D1946
Methane	10	0.00039	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	160	58	ppm-c	CFR60A EPA 25C
Acetone	51	10	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	10	10	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	5.1	2.0	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	32	2.0	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	7.7	2.0	ppb(v/v)	EPA-2 TO-15
n-Hexane	60	2.0	ppb(v/v)	EPA-2 TO-15
Pentane	370	2.0	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	11	2.0	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	19	2.0	ppb(v/v)	EPA-2 TO-15
o-Xylene	7.1	2.0	ppb(v/v)	EPA-2 TO-15
n-Butane	1100	19	ppb(v/v)	EPA-2 TO-15
Propane	2000	48	ppb(v/v)	EPA-2 TO-15
MB6-LFG 05/28/04 13:00 004				
Carbon dioxide	28	0.018	%(v/v)	ASTM D1946
Oxygen	2.9	0.18	%(v/v)	ASTM D1946
Nitrogen	27	1.8	%(v/v)	ASTM D1946
Methane	41	0.00036	%(v/v)	ASTM D1946
Ethane	0.0026	0.00090	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	500	54	ppm-c	CFR60A EPA 25C
Acetone	65	18	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	15	3.6	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	73	3.6	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	56	3.6	ppb(v/v)	EPA-2 TO-15
n-Hexane	200	3.6	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	20	3.6	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	45	3.6	ppb(v/v)	EPA-2 TO-15
o-Xylene	20	3.6	ppb(v/v)	EPA-2 TO-15
n-Butane	4800	90	ppb(v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E4F010166

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MB6-LFG 05/28/04 13:00 004				
Pentane	1500	90	ppb(v/v)	EPA-2 TO-15
Propane	11000	230	ppb(v/v)	EPA-2 TO-15
MB7-LFG 05/28/04 17:50 006				
Hydrogen sulfide	1.0	0.20	ppm(v/v)	CFR60A EPA 15/16
MB7-SUR 05/28/04 17:50 007				
Carbon dioxide	15	0.020	%(v/v)	ASTM D1946
Oxygen	9.0	0.20	%(v/v)	ASTM D1946
Nitrogen	63	2.0	%(v/v)	ASTM D1946
Methane	12	0.00039	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	190	59	ppm-c	CFR60A EPA 25C
Acetone	82	10	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	17	10	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	11	2.0	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	2.3	2.0	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	6.6	2.0	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	7.9	2.0	ppb(v/v)	EPA-2 TO-15
n-Hexane	99	2.0	ppb(v/v)	EPA-2 TO-15
Pentane	480	2.0	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	7.5	2.0	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	18	2.0	ppb(v/v)	EPA-2 TO-15
o-Xylene	6.6	2.0	ppb(v/v)	EPA-2 TO-15
n-Butane	1500	39	ppb(v/v)	EPA-2 TO-15
Propane	2600	98	ppb(v/v)	EPA-2 TO-15
MB7-LFG 05/28/04 17:50 008				
Carbon dioxide	25	0.019	%(v/v)	ASTM D1946
Oxygen	1.1	0.19	%(v/v)	ASTM D1946
Nitrogen	53	1.9	%(v/v)	ASTM D1946
Methane	21	0.00038	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	360	57	ppm-c	CFR60A EPA 25C
Chlorobenzene	22	3.8	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	6.5	3.8	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	8.1	3.8	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	13	3.8	ppb(v/v)	EPA-2 TO-15
n-Hexane	180	3.8	ppb(v/v)	EPA-2 TO-15
Pentane	730	3.8	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	16	3.8	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	16	3.8	ppb(v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E4F010166

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MB7-LFG 05/28/04 17:50 008				
o-Xylene	6.6	3.8	ppb(v/v)	EPA-2 TO-15
n-Butane	2200	38	ppb(v/v)	EPA-2 TO-15
Propane	4200	95	ppb(v/v)	EPA-2 TO-15

ANALYTICAL METHODS SUMMARY

E4F010166

PARAMETER	ANALYTICAL METHOD
Fixed Gases	ASTM D1946
Non-Condensable	CFR60A EPA 25C
Sulfur Compounds	CFR60A EPA 15/16
Volatile Organics by TO15	EPA-2 TO-15

References:

ASTM Annual Book Of ASTM Standards.

CFR60A "Test Methods", 40 CFR, Part 60, Appendix A, July 1, 1993.

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

E4F010166

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GHD97	001	MB6-SUR	05/28/04	13:00
GHEAA	002	MB6-LFG	05/28/04	13:00
GHEAC	003	MB6-SUR	05/28/04	13:00
GHEAE	004	MB6-LFG	05/28/04	13:00
GHEAG	005	MB7-SUR	05/28/04	17:50
GHEAJ	006	MB7-LFG	05/28/04	17:50
GHEAK	007	MB7-SUR	05/28/04	17:50
GHEAP	008	MB7-LFG	05/28/04	17:50

NOTE(S):

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

SCS ENGINEERS

Client Sample ID: MB6-SUR

GC Volatiles

Lot-Sample #...: E4F010166-001 **Work Order #...:** GHD971AA **Matrix.....:** AIR
Date Sampled...: 05/28/04 13:00 **Date Received..:** 05/28/04
Prep Date.....: 05/28/04 **Analysis Date..:** 05/28/04
Prep Batch #...: 4154202 **Analysis Time..:** 19:48
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC4
Method.....: CFR60A EPA 15/16

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	**0.37**	**0.20**	**ppm(v/v)**
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB6-LFG

GC Volatiles

Lot-Sample #...:	E4F010166-002	**Work Order #...:**	GHEAA1AA	**Matrix.....:**	AIR
Date Sampled...:	05/28/04 13:00	**Date Received..:**	05/28/04		
Prep Date.....:	05/28/04	**Analysis Date..:**	05/28/04		
Prep Batch #...:	4154202	**Analysis Time..:**	20:07		
Dilution Factor:	1				
Analyst ID.....:	358011	**Instrument ID..:**	GC4		
		Method.....:	CFR60A EPA 15/16		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	**1.0**	**0.20**	**ppm(v/v)**
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB6-SUR

GC/MS Volatiles

Lot-Sample #...: E4F010166-003 Work Order #...: GHEAC1AF Matrix.....: AIR
Date Sampled...: 05/28/04 13:00 Date Received..: 05/28/04
Prep Date.....: 06/04/04 Analysis Date..: 06/04/04
Prep Batch #...: 4163456 Analysis Time..: 18:33
Dilution Factor: 1
Analyst ID.....: 117751 Instrument ID..: MSB
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**51**	**10**	**ppb(v/v)**
Acrylonitrile	ND	10	ppb(v/v)
Bromodichloromethane	ND	2.0	ppb(v/v)
2-Butanone (MEK)	**10**	**10**	**ppb(v/v)**
Carbon disulfide	ND	10	ppb(v/v)
Carbon tetrachloride	ND	2.0	ppb(v/v)
Chlorobenzene	**5.1**	**2.0**	**ppb(v/v)**
Chlorodifluoromethane	ND	2.0	ppb(v/v)
Chloroethane	ND	4.0	ppb(v/v)
Chloroform	ND	2.0	ppb(v/v)
Chloromethane	ND	4.0	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)
1,4-Dichlorobenzene	**32**	**2.0**	**ppb(v/v)**
Dichlorodifluoromethane	ND	2.0	ppb(v/v)
1,1-Dichloroethane	ND	2.0	ppb(v/v)
1,2-Dichloroethane	ND	2.0	ppb(v/v)
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)
1,1-Dichloroethene	ND	2.0	ppb(v/v)
Dichlorofluoromethane	ND	2.0	ppb(v/v)
1,2-Dichloropropane	ND	2.0	ppb(v/v)
Ethanol	ND	25	ppb(v/v)
Ethylbenzene	**7.7**	**2.0**	**ppb(v/v)**
n-Hexane	**60**	**2.0**	**ppb(v/v)**
Methylene chloride	ND	2.0	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)
Pentane	**370**	**2.0**	**ppb(v/v)**
2-Propanol	ND	10	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)
Tetrachloroethene	ND	2.0	ppb(v/v)
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)
Trichloroethene	ND	2.0	ppb(v/v)
Trichlorofluoromethane	ND	2.0	ppb(v/v)
Vinyl chloride	**11**	**2.0**	**ppb(v/v)**
m-Xylene & p-Xylene	**19**	**2.0**	**ppb(v/v)**

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SCS ENGINEERS

Client Sample ID: MB6-SUR

GC/MS Volatiles

Lot-Sample #...: E4F010166-003 Work Order #...: GHEAC1AF Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
o-Xylene	7.1	2.0	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB6-SUR

GC/MS Volatiles

Lot-Sample #...:	E4F010166-003	Work Order #...:	GHEAC2AF	Matrix.....:	AIR
Date Sampled...:	05/28/04 13:00	Date Received..:	05/28/04		
Prep Date.....:	06/08/04	Analysis Date..:	06/08/04		
Prep Batch #...:	4163459	Analysis Time..:	13:44		
Dilution Factor:	9.7				
Analyst ID.....:	117751	Instrument ID..:	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
n-Butane	1100	19	ppb(v/v)
Propane	2000	48	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB6-SUR

GC Volatiles

Lot-Sample #...:	E4F010166-003	**Work Order #...:**	GHEAC1AC	**Matrix.....:**	AIR
Date Sampled...:	05/28/04 13:00	**Date Received..:**	05/28/04		
Prep Date.....:	06/02/04	**Analysis Date..:**	06/02/04		
Prep Batch #...:	4155174	**Analysis Time..:**	15:29		
Dilution Factor:	1.93				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**6.0**	**0.019**	**%(v/v)**
Oxygen	**16**	**0.19**	**%(v/v)**
Nitrogen	**67**	**1.9**	**%(v/v)**
Methane	**10**	**0.00039**	**%(v/v)**
Carbon monoxide	ND	0.0019	%(v/v)
Ethane	ND	0.00096	%(v/v)

SCS ENGINEERS

Client Sample ID: MB6-SUR

GC Volatiles

Lot-Sample #...:	E4F010166-003	Work Order #...:	GHEAC1AE	Matrix.....:	AIR
Date Sampled...:	05/28/04 13:00	Date Received..:	05/28/04		
Prep Date.....:	06/02/04	Analysis Date..:	06/02/04		
Prep Batch #...:	4156502	Analysis Time..:	15:29		
Dilution Factor:	1.93				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	160	58	ppm-c

SCS ENGINEERS

Client Sample ID: MB6-LFG

GC/MS Volatiles

Lot-Sample #...:	E4F010166-004	**Work Order #...:**	GHEAE1AF	**Matrix.....:**	AIR
Date Sampled...:	05/28/04 13:00	**Date Received..:**	05/28/04		
Prep Date.....:	06/04/04	**Analysis Date..:**	06/04/04		
Prep Batch #...:	4163456	**Analysis Time..:**	19:10		
Dilution Factor:	1.8				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**65**	**18**	**ppb(v/v)**
Acrylonitrile	ND	18	ppb(v/v)
Bromodichloromethane	ND	3.6	ppb(v/v)
2-Butanone (MEK)	ND	18	ppb(v/v)
Carbon disulfide	ND	18	ppb(v/v)
Carbon tetrachloride	ND	3.6	ppb(v/v)
Chlorobenzene	**15**	**3.6**	**ppb(v/v)**
Chlorodifluoromethane	ND	3.6	ppb(v/v)
Chloroethane	ND	7.2	ppb(v/v)
Chloroform	ND	3.6	ppb(v/v)
Chloromethane	ND	7.2	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	3.6	ppb(v/v)
1,2-Dichlorobenzene	ND	3.6	ppb(v/v)
1,3-Dichlorobenzene	ND	3.6	ppb(v/v)
1,4-Dichlorobenzene	**73**	**3.6**	**ppb(v/v)**
Dichlorodifluoromethane	ND	3.6	ppb(v/v)
1,1-Dichloroethane	ND	3.6	ppb(v/v)
1,2-Dichloroethane	ND	3.6	ppb(v/v)
trans-1,2-Dichloroethene	ND	3.6	ppb(v/v)
1,1-Dichloroethene	ND	3.6	ppb(v/v)
Dichlorofluoromethane	ND	3.6	ppb(v/v)
1,2-Dichloropropane	ND	3.6	ppb(v/v)
Ethanol	ND	45	ppb(v/v)
Ethylbenzene	**56**	**3.6**	**ppb(v/v)**
n-Hexane	**200**	**3.6**	**ppb(v/v)**
Methylene chloride	ND	3.6	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	18	ppb(v/v)
2-Propanol	ND	18	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	3.6	ppb(v/v)
Tetrachloroethene	ND	3.6	ppb(v/v)
1,1,1-Trichloroethane	ND	3.6	ppb(v/v)
Trichloroethene	ND	3.6	ppb(v/v)
Trichlorofluoromethane	ND	3.6	ppb(v/v)
Vinyl chloride	**20**	**3.6**	**ppb(v/v)**
m-Xylene & p-Xylene	**45**	**3.6**	**ppb(v/v)**
o-Xylene	**20**	**3.6**	**ppb(v/v)**

SCS ENGINEERS

Client Sample ID: MB6-LFG

GC/MS Volatiles

Lot-Sample #...:	E4F010166-004	Work Order #...:	GHEAE2AF	Matrix.....:	AIR
Date Sampled...:	05/28/04 13:00	Date Received..:	05/28/04		
Prep Date.....:	06/08/04	Analysis Date..:	06/08/04		
Prep Batch #...:	4163459	Analysis Time..:	14:14		
Dilution Factor:	45.11				
Analyst ID.....:	117751	Instrument ID..:	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
n-Butane	4800	90	ppb(v/v)
Pentane	1500	90	ppb(v/v)
Propane	11000	230	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB6-LFG

GC Volatiles

Lot-Sample #...:	E4F010166-004	Work Order #...:	GHEAE1AC	Matrix.....:	AIR
Date Sampled...:	05/28/04 13:00	Date Received..:	05/28/04		
Prep Date.....:	06/02/04	Analysis Date..:	06/02/04		
Prep Batch #...:	4155174	Analysis Time..:	16:42		
Dilution Factor:	1.8				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	28	0.018	%(v/v)
Oxygen	2.9	0.18	%(v/v)
Nitrogen	27	1.8	%(v/v)
Methane	41	0.00036	%(v/v)
Carbon monoxide	ND	0.0018	%(v/v)
Ethane	0.0026	0.00090	%(v/v)

SCS ENGINEERS

Client Sample ID: MB6-LFG

GC Volatiles

Lot-Sample #...:	E4F010166-004	Work Order #...:	GHEAE1AE	Matrix.....:	AIR
Date Sampled...:	05/28/04 13:00	Date Received..:	05/28/04		
Prep Date.....:	06/02/04	Analysis Date..:	06/02/04		
Prep Batch #...:	4156502	Analysis Time..:	16:42		
Dilution Factor:	1.8				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	500	54	ppm-c

SCS ENGINEERS

Client Sample ID: MB7-SUR

GC Volatiles

Lot-Sample #...:	E4F010166-005	**Work Order #...:**	GHEAG1AA	**Matrix.....:**	AIR
Date Sampled...:	05/28/04 17:50	**Date Received..:**	05/28/04		
Prep Date.....:	05/28/04	**Analysis Date..:**	05/28/04		
Prep Batch #...:	4154202	**Analysis Time..:**	20:23		
Dilution Factor:	1				
Analyst ID.....:	358011	**Instrument ID..:**	GC4		
		Method.....:	CFR60A EPA 15/16		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	ND	0.20	ppm(v/v)
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB7-LFG

GC Volatiles

Lot-Sample #...: E4F010166-006 **Work Order #...:** GHEAJ1AA **Matrix.....:** AIR
Date Sampled...: 05/28/04 17:50 **Date Received..:** 05/28/04
Prep Date.....: 05/28/04 **Analysis Date..:** 05/28/04
Prep Batch #...: 4154202 **Analysis Time..:** 20:39
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC4
Method.....: CFR60A EPA 15/16

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	**1.0**	**0.20**	**ppm(v/v)**
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB7-SUR

GC/MS Volatiles

Lot-Sample #...:	E4F010166-007	**Work Order #...:**	GHEAK1AF	**Matrix.....:**	AIR
Date Sampled...:	05/28/04 17:50	**Date Received..:**	05/28/04		
Prep Date.....:	06/04/04	**Analysis Date..:**	06/04/04		
Prep Batch #...:	4163456	**Analysis Time..:**	19:48		
Dilution Factor:	1				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**82**	**10**	**ppb(v/v)**
Acrylonitrile	ND	10	ppb(v/v)
Bromodichloromethane	ND	2.0	ppb(v/v)
2-Butanone (MEK)	**17**	**10**	**ppb(v/v)**
Carbon disulfide	ND	10	ppb(v/v)
Carbon tetrachloride	ND	2.0	ppb(v/v)
Chlorobenzene	**11**	**2.0**	**ppb(v/v)**
Chlorodifluoromethane	**2.3**	**2.0**	**ppb(v/v)**
Chloroethane	ND	4.0	ppb(v/v)
Chloroform	ND	2.0	ppb(v/v)
Chloromethane	ND	4.0	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)
1,4-Dichlorobenzene	**6.6**	**2.0**	**ppb(v/v)**
Dichlorodifluoromethane	ND	2.0	ppb(v/v)
1,1-Dichloroethane	ND	2.0	ppb(v/v)
1,2-Dichloroethane	ND	2.0	ppb(v/v)
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)
1,1-Dichloroethene	ND	2.0	ppb(v/v)
Dichlorofluoromethane	ND	2.0	ppb(v/v)
1,2-Dichloropropane	ND	2.0	ppb(v/v)
Ethanol	ND	25	ppb(v/v)
Ethylbenzene	**7.9**	**2.0**	**ppb(v/v)**
n-Hexane	**99**	**2.0**	**ppb(v/v)**
Methylene chloride	ND	2.0	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)
Pentane	**480**	**2.0**	**ppb(v/v)**
2-Propanol	ND	10	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)
Tetrachloroethene	ND	2.0	ppb(v/v)
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)
Trichloroethene	ND	2.0	ppb(v/v)
Trichlorofluoromethane	ND	2.0	ppb(v/v)
Vinyl chloride	**7.5**	**2.0**	**ppb(v/v)**
m-Xylene & p-Xylene	**18**	**2.0**	**ppb(v/v)**

(Continued on next page)

SCS ENGINEERS

Client Sample ID: MB7-SUR

GC/MS Volatiles

Lot-Sample #...: E4F010166-007 Work Order #...: GHEAK1AF Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
o-Xylene	6.6	2.0	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB7-SUR

GC/MS Volatiles

Lot-Sample #...:	E4F010166-007	Work Order #...:	GHEAK2AF	Matrix.....:	AIR
Date Sampled...:	05/28/04 17:50	Date Received..:	05/28/04		
Prep Date.....:	06/08/04	Analysis Date..:	06/08/04		
Prep Batch #...:	4163459	Analysis Time..:	14:52		
Dilution Factor:	19.62				
Analyst ID.....:	117751	Instrument ID..:	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
n-Butane	1500	39	ppb(v/v)
Propane	2600	98	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB7-SUR

GC Volatiles

Lot-Sample #...: E4F010166-007
Date Sampled...: 05/28/04 17:50
Prep Date.....: 06/02/04
Prep Batch #...: 4155174
Dilution Factor: 1.97
Analyst ID.....: 101605

Work Order #...: GHEAK1AC
Date Received..: 05/28/04
Analysis Date..: 06/02/04
Analysis Time..: 17:56

Instrument ID..: GC3
Method.....: ASTM D1946

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	15	0.020	%(v/v)
Oxygen	9.0	0.20	%(v/v)
Nitrogen	63	2.0	%(v/v)
Methane	12	0.00039	%(v/v)
Carbon monoxide	ND	0.0020	%(v/v)
Ethane	ND	0.00098	%(v/v)

SCS ENGINEERS

Client Sample ID: MB7-SUR

GC Volatiles

Lot-Sample #...: E4F010166-007
Date Sampled...: 05/28/04 17:50
Prep Date.....: 06/02/04
Prep Batch #...: 4156502
Dilution Factor: 1.97
Analyst ID.....: 101605

Work Order #...: GHEAK1AE
Date Received..: 05/28/04
Analysis Date..: 06/02/04
Analysis Time..: 17:56

Instrument ID..: GC3
Method.....: CFR60A EPA 25C

Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	190	59	ppm-c

SCS ENGINEERS

Client Sample ID: MB7-LFG

GC/MS Volatiles

Lot-Sample #...:	E4F010166-008	**Work Order #...:**	GHEAP1AF	**Matrix.....:**	AIR
Date Sampled...:	05/28/04 17:50	**Date Received..:**	05/28/04		
Prep Date.....:	06/04/04	**Analysis Date..:**	06/04/04		
Prep Batch #...:	4163456	**Analysis Time..:**	20:25		
Dilution Factor:	1.9				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	19	ppb(v/v)
Acrylonitrile	ND	19	ppb(v/v)
Bromodichloromethane	ND	3.8	ppb(v/v)
2-Butanone (MEK)	ND	19	ppb(v/v)
Carbon disulfide	ND	19	ppb(v/v)
Carbon tetrachloride	ND	3.8	ppb(v/v)
Chlorobenzene	**22**	**3.8**	**ppb(v/v)**
Chlorodifluoromethane	**6.5**	**3.8**	**ppb(v/v)**
Chloroethane	ND	7.6	ppb(v/v)
Chloroform	ND	3.8	ppb(v/v)
Chloromethane	ND	7.6	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	3.8	ppb(v/v)
1,2-Dichlorobenzene	ND	3.8	ppb(v/v)
1,3-Dichlorobenzene	ND	3.8	ppb(v/v)
1,4-Dichlorobenzene	**8.1**	**3.8**	**ppb(v/v)**
Dichlorodifluoromethane	ND	3.8	ppb(v/v)
1,1-Dichloroethane	ND	3.8	ppb(v/v)
1,2-Dichloroethane	ND	3.8	ppb(v/v)
trans-1,2-Dichloroethene	ND	3.8	ppb(v/v)
1,1-Dichloroethene	ND	3.8	ppb(v/v)
Dichlorofluoromethane	ND	3.8	ppb(v/v)
1,2-Dichloropropane	ND	3.8	ppb(v/v)
Ethanol	ND	48	ppb(v/v)
Ethylbenzene	**13**	**3.8**	**ppb(v/v)**
n-Hexane	**180**	**3.8**	**ppb(v/v)**
Methylene chloride	ND	3.8	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	19	ppb(v/v)
Pentane	**730**	**3.8**	**ppb(v/v)**
2-Propanol	ND	19	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	3.8	ppb(v/v)
Tetrachloroethene	ND	3.8	ppb(v/v)
1,1,1-Trichloroethane	ND	3.8	ppb(v/v)
Trichloroethene	ND	3.8	ppb(v/v)
Trichlorofluoromethane	ND	3.8	ppb(v/v)
Vinyl chloride	**16**	**3.8**	**ppb(v/v)**
m-Xylene & p-Xylene	**16**	**3.8**	**ppb(v/v)**

(Continued on next page)

SCS ENGINEERS

Client Sample ID: MB7-LFG

GC/MS Volatiles

Lot-Sample #...: E4F010166-008 Work Order #...: GHEAP1AF Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
o-Xylene	6.6	3.8	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB7-LFG

GC/MS Volatiles

Lot-Sample #...:	E4F010166-008	Work Order #...:	GHEAP2AF	Matrix.....:	AIR
Date Sampled...:	05/28/04 17:50	Date Received..:	05/28/04		
Prep Date.....:	06/08/04	Analysis Date..:	06/08/04		
Prep Batch #...:	4163459	Analysis Time..:	15:31		
Dilution Factor:	19.07				
Analyst ID.....:	117751	Instrument ID..:	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
n-Butane	2200	38	ppb(v/v)
Propane	4200	95	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB7-LFG

GC Volatiles

Lot-Sample #...:	E4F010166-008	**Work Order #...:**	GHEAP1AC	**Matrix.....:**	AIR
Date Sampled...:	05/28/04 17:50	**Date Received..:**	05/28/04		
Prep Date.....:	06/02/04	**Analysis Date..:**	06/02/04		
Prep Batch #...:	4155174	**Analysis Time..:**	19:09		
Dilution Factor:	1.91				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**25**	**0.019**	**%(v/v)**
Oxygen	**1.1**	**0.19**	**%(v/v)**
Nitrogen	**53**	**1.9**	**%(v/v)**
Methane	**21**	**0.00038**	**%(v/v)**
Carbon monoxide	ND	0.0019	%(v/v)
Ethane	ND	0.00096	%(v/v)

SCS ENGINEERS

Client Sample ID: MB7-LFG

GC Volatiles

Lot-Sample #...:	E4F010166-008	Work Order #...:	GHEAP1AE	Matrix.....:	AIR
Date Sampled...:	05/28/04 17:50	Date Received..:	05/28/04		
Prep Date.....:	06/02/04	Analysis Date..:	06/02/04		
Prep Batch #...:	4156502	Analysis Time..:	19:09		
Dilution Factor:	1.91				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	360	57	ppm-c

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E4F010166

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	CFR60A EPA 15/16		4154202	
002	AIR	CFR60A EPA 15/16		4154202	
003	AIR	EPA-2 TO-15		4163456	
	AIR	EPA-2 TO-15		4163459	
	AIR	ASTM D1946		4155174	
	AIR	CFR60A EPA 25C		4156502	
004	AIR	EPA-2 TO-15		4163456	
	AIR	EPA-2 TO-15		4163459	
	AIR	ASTM D1946		4155174	
	AIR	CFR60A EPA 25C		4156502	
005	AIR	CFR60A EPA 15/16		4154202	
006	AIR	CFR60A EPA 15/16		4154202	
007	AIR	EPA-2 TO-15		4163456	
	AIR	EPA-2 TO-15		4163459	
	AIR	ASTM D1946		4155174	
	AIR	CFR60A EPA 25C		4156502	
008	AIR	EPA-2 TO-15		4163456	
	AIR	EPA-2 TO-15		4163459	
	AIR	ASTM D1946		4155174	
	AIR	CFR60A EPA 25C		4156502	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4F010166
MB Lot-Sample #: M4F110000-456

Work Order #...: GH5711AD

Matrix.....: AIR

Prep Date.....: 06/04/04
Prep Batch #...: 4163456

Analysis Time..: 11:17
Instrument ID..: MSB

Analysis Date..: 06/04/04
Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ppb(v/v)	EPA-2 TO-15
Acrylonitrile	ND	10	ppb(v/v)	EPA-2 TO-15
Bromodichloromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Carbon disulfide	ND	10	ppb(v/v)	EPA-2 TO-15
Carbon tetrachloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chloroethane	ND	4.0	ppb(v/v)	EPA-2 TO-15
Chloroform	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chloromethane	ND	4.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Dichlorofluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Ethanol	ND	25	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Trichlorofluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
n-Hexane	ND	2.0	ppb(v/v)	EPA-2 TO-15
2-Propanol	ND	10	ppb(v/v)	EPA-2 TO-15
Methylene chloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
Pentane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Tetrachloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Trichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
o-Xylene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	ND	10	ppb(v/v)	EPA-2 TO-15
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)	EPA-2 TO-15

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4F010166 **Work Order #...:** GH5711AD **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

NOTE(S):

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

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4F010166
MB Lot-Sample #: M4F110000-459

Analysis Date..: 06/08/04
Dilution Factor: 1

Work Order #...: GH59H1AA

Prep Date.....: 06/08/04
Prep Batch #...: 4163459

Analyst ID.....: 117751

Matrix.....: AIR

Analysis Time..: 12:38
Instrument ID..: MSB

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Pentane	ND	2.0	ppb(v/v)	EPA-2 TO-15
n-Butane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Propane	ND	5.0	ppb(v/v)	EPA-2 TO-15

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4F010166
MB Lot-Sample #: M4F030000-174

Analysis Date..: 06/02/04
Dilution Factor: 1

Work Order #...: GHRC21AA

Prep Date.....: 06/02/04
Prep Batch #...: 4155174

Analyst ID.....: 101605

Matrix.....: AIR

Analysis Time..: 12:09
Instrument ID..: GC3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon dioxide	ND	0.010	%(v/v)	ASTM D1946
Oxygen	ND	0.10	%(v/v)	ASTM D1946
Nitrogen	ND	1.0	%(v/v)	ASTM D1946
Methane	ND	0.00020	%(v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	%(v/v)	ASTM D1946
Ethane	ND	0.00050	%(v/v)	ASTM D1946

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4F010166
MB Lot-Sample #: M4F020000-202

Analysis Date..: 05/28/04
Dilution Factor: 1

Work Order #...: GHFLE1AA

Prep Date.....: 05/28/04
Prep Batch #...: 4154202

Analyst ID.....: 358011

Matrix.....: AIR

Analysis Time..: 10:36
Instrument ID..: GC4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hydrogen sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Carbonyl sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Methyl mercaptan	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Ethyl mercaptan	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Dimethyl sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4F010166
MB Lot-Sample #: M4F040000-502

Analysis Date..: 06/02/04
Dilution Factor: 1

Work Order #...: GHREP1AA

Prep Date.....: 06/02/04
Prep Batch #...: 4156502

Analyst ID.....: 101605

Matrix.....: AIR

Analysis Time..: 14:42
Instrument ID..: GC3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Non-Methane Hydroca	ND	30	ppm-c	CFR60A EPA 25C

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E4F010166 **Work Order #...:** GH5711AA-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F110000-456 GH5711AC-LCSD
Prep Date.....: 06/04/04 **Analysis Date..:** 06/04/04
Prep Batch #...: 4163456 **Analysis Time..:** 10:17
Dilution Factor: 1 **Instrument ID..:** MSB
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**96**	**(70 - 125)**			**EPA-2 TO-15**
	93	**(70 - 125)**	**2.4**	**(0-20)**	**EPA-2 TO-15**
Methylene chloride	**84**	**(75 - 120)**			**EPA-2 TO-15**
	81	**(75 - 120)**	**3.7**	**(0-20)**	**EPA-2 TO-15**
Trichloroethene	**91**	**(70 - 125)**			**EPA-2 TO-15**
	91	**(70 - 125)**	**0.40**	**(0-20)**	**EPA-2 TO-15**
1,1,2,2-Tetrachloroethane	**80**	**(65 - 130)**			**EPA-2 TO-15**
	81	**(65 - 130)**	**0.24**	**(0-20)**	**EPA-2 TO-15**
Toluene	**85**	**(75 - 125)**			**EPA-2 TO-15**
	85	**(75 - 125)**	**0.060**	**(0-20)**	**EPA-2 TO-15**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E4F010166
LCS Lot-Sample#: M4F110000-456
Prep Date.....: 06/04/04
Prep Batch #...: 4163456
Dilution Factor: 1
Analyst ID.....: 117751

Work Order #...: GH5711AA-LCS
GH5711AC-LCSD
Analysis Date..: 06/04/04
Analysis Time..: 10:17
Instrument ID..: MSB

Matrix.....: AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	59.2	56.5	ppb(v/v)	96		EPA-2 TO-15
	59.2	55.2	ppb(v/v)	93	2.4	EPA-2 TO-15
Methylene chloride	58.7	49.6	ppb(v/v)	84		EPA-2 TO-15
	58.7	47.8	ppb(v/v)	81	3.7	EPA-2 TO-15
Trichloroethene	59.5	54.0	ppb(v/v)	91		EPA-2 TO-15
	59.5	54.3	ppb(v/v)	91	0.40	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	55.4	44.4	ppb(v/v)	80		EPA-2 TO-15
	55.4	44.6	ppb(v/v)	81	0.24	EPA-2 TO-15
Toluene	55.7	47.3	ppb(v/v)	85		EPA-2 TO-15
	55.7	47.3	ppb(v/v)	85	0.060	EPA-2 TO-15

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E4F010166
LCS Lot-Sample#: M4F110000-459
Prep Date.....: 06/08/04
Prep Batch #...: 4163459
Dilution Factor: 1
Analyst ID.....: 117751

Work Order #...: GH59H1AC-LCS
GH59H1AD-LCSD
Analysis Date..: 06/08/04
Analysis Time..: 11:23
Instrument ID..: MSB

Matrix.....: AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	95	(70 - 125)			EPA-2 TO-15
	92	(70 - 125)	3.0	(0-20)	EPA-2 TO-15
Methylene chloride	83	(75 - 120)			EPA-2 TO-15
	80	(75 - 120)	2.9	(0-20)	EPA-2 TO-15
Trichloroethene	90	(70 - 125)			EPA-2 TO-15
	88	(70 - 125)	2.7	(0-20)	EPA-2 TO-15
Toluene	81	(75 - 125)			EPA-2 TO-15
	79	(75 - 125)	2.2	(0-20)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	77	(65 - 130)			EPA-2 TO-15
	76	(65 - 130)	1.9	(0-20)	EPA-2 TO-15

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E4F010166
LCS Lot-Sample#: M4F110000-459
Prep Date.....: 06/08/04
Prep Batch #...: 4163459
Dilution Factor: 1
Analyst ID.....: 117751

Work Order #...: GH59H1AC-LCS
GH59H1AD-LCSD
Analysis Date..: 06/08/04
Analysis Time..: 11:23
Instrument ID..: MSB

Matrix.....: AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	59.2	55.9	ppb(v/v)	95		EPA-2 TO-15
	59.2	54.2	ppb(v/v)	92	3.0	EPA-2 TO-15
Methylene chloride	58.7	48.6	ppb(v/v)	83		EPA-2 TO-15
	58.7	47.2	ppb(v/v)	80	2.9	EPA-2 TO-15
Trichloroethene	59.5	53.7	ppb(v/v)	90		EPA-2 TO-15
	59.5	52.3	ppb(v/v)	88	2.7	EPA-2 TO-15
Toluene	55.7	45.2	ppb(v/v)	81		EPA-2 TO-15
	55.7	44.2	ppb(v/v)	79	2.2	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	55.4	42.6	ppb(v/v)	77		EPA-2 TO-15
	55.4	41.8	ppb(v/v)	76	1.9	EPA-2 TO-15

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4F010166
LCS Lot-Sample#: M4F030000-174
Prep Date.....: 06/02/04
Prep Batch #...: 4155174
Dilution Factor: 1
Analyst ID.....: 101605

Work Order #...: GHRC21AC-LCS
GHRC21AD-LCSD
Analysis Date..: 06/02/04
Analysis Time..: 11:22
Instrument ID..: GC3

Matrix.....: AIR

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Carbon dioxide	**94**	**(75 - 125)**			**ASTM D1946**
	93	**(75 - 125)**	**1.9**	**(0-20)**	**ASTM D1946**
Methane	**95**	**(75 - 135)**			**ASTM D1946**
	92	**(75 - 135)**	**3.4**	**(0-20)**	**ASTM D1946**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4F010166
LCS Lot-Sample#: M4F030000-174
Prep Date.....: 06/02/04
Prep Batch #...: 4155174
Dilution Factor: 1
Analyst ID.....: 101605

Work Order #...: GHRC21AC-LCS
GHRC21AD-LCSD
Analysis Date..: 06/02/04
Analysis Time..: 11:22
Instrument ID..: GC3

Matrix.....: AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	**1.00**	**0.943**	**%(v/v)**	**94**		**ASTM D1946**
	1.00	**0.926**	**%(v/v)**	**93**	**1.9**	**ASTM D1946**
Methane	**0.0500**	**0.0477**	**%(v/v)**	**95**		**ASTM D1946**
	0.0500	**0.0461**	**%(v/v)**	**92**	**3.4**	**ASTM D1946**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4F010166 **Work Order #...:** GHFLE1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F020000-202 GHFLE1AD-LCSD
Prep Date.....: 05/28/04 **Analysis Date..:** 05/28/04
Prep Batch #...: 4154202 **Analysis Time..:** 10:10
Dilution Factor: 1 **Instrument ID..:** GC4
Analyst ID.....: 358011

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hydrogen sulfide	**122**	**(60 - 130)**			**CFR60A EPA 15/16**
	117	**(60 - 130)**	**3.6**	**(0-25)**	**CFR60A EPA 15/16**
Carbonyl sulfide	**123**	**(75 - 140)**			**CFR60A EPA 15/16**
	119	**(75 - 140)**	**3.6**	**(0-25)**	**CFR60A EPA 15/16**
Methyl mercaptan	**124**	**(75 - 130)**			**CFR60A EPA 15/16**
	118	**(75 - 130)**	**4.6**	**(0-25)**	**CFR60A EPA 15/16**
Carbon disulfide	**109**	**(70 - 120)**			**CFR60A EPA 15/16**
	104	**(70 - 120)**	**4.8**	**(0-25)**	**CFR60A EPA 15/16**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4F010166 **Work Order #...:** GHFLE1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F020000-202 GHFLE1AD-LCSD
Prep Date.....: 05/28/04 **Analysis Date..:** 05/28/04
Prep Batch #...: 4154202 **Analysis Time..:** 10:10
Dilution Factor: 1 **Instrument ID..:** GC4
Analyst ID.....: 358011

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Hydrogen sulfide	**0.940**	**1.14**	**ppm(v/v)**	**122**		**CFR60A EPA 15/16**
	0.940	**1.10**	**ppm(v/v)**	**117**	**3.6**	**CFR60A EPA 15/16**
Carbonyl sulfide	**1.10**	**1.36**	**ppm(v/v)**	**123**		**CFR60A EPA 15/16**
	1.10	**1.31**	**ppm(v/v)**	**119**	**3.6**	**CFR60A EPA 15/16**
Methyl mercaptan	**1.00**	**1.24**	**ppm(v/v)**	**124**		**CFR60A EPA 15/16**
	1.00	**1.18**	**ppm(v/v)**	**118**	**4.6**	**CFR60A EPA 15/16**
Carbon disulfide	**1.13**	**1.24**	**ppm(v/v)**	**109**		**CFR60A EPA 15/16**
	1.13	**1.18**	**ppm(v/v)**	**104**	**4.8**	**CFR60A EPA 15/16**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4F010166 **Work Order #...:** GHREP1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F040000-502 GHREP1AD-LCSD
Prep Date.....: 06/02/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4156502 **Analysis Time..:** 12:58
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Non-Methane Hydrocar	**98**	**(80 - 120)**			**CFR60A EPA 25C**
	102	**(80 - 120)**	**4.1**	**(0-20)**	**CFR60A EPA 25C**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4F010166 **Work Order #...:** GHREP1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F040000-502 GHREP1AD-LCSD
Prep Date.....: 06/02/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4156502 **Analysis Time..:** 12:58
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Non-Methane Hydrocar	**948**	**929**	**ppm-c**	**98**		**CFR60A EPA 25C**
	948	**968**	**ppm-c**	**102**	**4.1**	**CFR60A EPA 25C**

NOTE(S):

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

Bold print denotes control parameters

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

June 17, 2004

STL LOT NUMBER: **E4F020134**
PO/CONTRACT: 01203520.00

Raymond Huff
SCS Engineers
3711 Long Beach Boulevard
Ninth Floor
Long Beach, CA 90807-3315

Dear Mr. Huff,

This report contains the analytical results for the four samples received under chain of custody by STL Los Angeles on June 1, 2004. These samples are associated with your Mission Bay LF project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is E87652.

Any matrix related anomaly is footnoted within the report. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria.

Preliminary results were sent via facsimile on June 11, 2004.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000041 pages.

If you have any questions, please feel free to call me at (714) 258-8610.

Sincerely,

Marisol Tabirara

Marisol Tabirara
Project Manager

cc: Project File

Chain of Custody Record

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: SCS Engineers	Project Manager: Ray Huff	Date: 6/1/04	Chain of Custody Number: 139956
Address: 8799 Balboa Ave #290	Telephone Number (Area Code)/Fax Number: (562) 426-9544 / (562) 427-0805	Lab Number: E4F020134	Page 1 of 1
City: San Diego; State: CA; Zip Code: 92123	Site Contact: K. Stackpole	Lab Contact:	
Project Name and Location (State): Mission Bay Landfill, San Diego, CA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 01203520.00			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Other	Containers & Preservatives: SUMMA Canister	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tedlar bag	Analysis (Attach list if more space is needed): TO-15	ASTM-D1946 (+CO Canary)*	EPA 15/16	EPA 25C	Special Instructions/ Conditions of Receipt
MB8-Sur	6/1/04	15:00	X											X			X		
MB8-Lfg			X											X			X		
MB8-Sur			X					X							X	X		X	*ASTM-D1946 + CO and ethane
MB8-Lfg			X					X							X	X		X	

Air-42 Lfg Condition

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By: Karen Stackpole	6/1/04	17:00	1. Received By: [signature]	6/1/04	1710
2. Relinquished By: [signature]	6/1/04	1915	2. Received By: [signature]	06/01/04	1915
3. Relinquished By:			3. Received By:		

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

000003

SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 3327
DATE CLEANED: 5·20·04E, 5·20·04B
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5·24·04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	13.22	6-2-04	TD
FINAL PRESSURE (PSIA)	24.29	6-2-04	TD

Pressurization Gas:

COMMENTS: 1,8374

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 2657
DATE CLEANED: 5·20·04E, 5·20·04F
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac (inches Hg) Or PRESS (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5·24·04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	13.67	6-2-04	TD
FINAL PRESSURE (PSIA)	24.16	6-2-04	TD

Pressurization Gas:

COMMENTS: 11,7674

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

Analytical Report

ANALYTICAL REPORT

Mission Bay LF

Lot #: E4F020134

Raymond Huff

SCS Engineers

SEVERN TRENT LABORATORIES, INC.

Marisol Tabirara
Project Manager

June 11, 2004

EXECUTIVE SUMMARY - Detection Highlights

E4F020134

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MB8-LFG 06/01/04 15:00 002				
Hydrogen sulfide	20	4.0	ppm(v/v)	CFR60A EPA 15/16
MB8-SUR 06/01/04 15:00 003				
Carbon dioxide	4.5	0.018	%(v/v)	ASTM D1946
Oxygen	17	0.18	%(v/v)	ASTM D1946
Nitrogen	74	1.8	%(v/v)	ASTM D1946
Methane	2.8	0.00037	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	150	55	ppm-c	CFR60A EPA 25C
Acetone	83	10	ppb(v/v)	EPA-2 TO-15
n-Butane	280	2.0	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	18	10	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	4.5	2.0	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	86	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	8.1	2.0	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	58	2.0	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	110	2.0	ppb(v/v)	EPA-2 TO-15
Dichlorofluoromethane	2.0	2.0	ppb(v/v)	EPA-2 TO-15
Ethanol	30	25	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	190	2.0	ppb(v/v)	EPA-2 TO-15
n-Hexane	33	2.0	ppb(v/v)	EPA-2 TO-15
Pentane	120	2.0	ppb(v/v)	EPA-2 TO-15
Propane	460	5.0	ppb(v/v)	EPA-2 TO-15
Trichloroethene	3.8	2.0	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	6.0	2.0	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	150	2.0	ppb(v/v)	EPA-2 TO-15
o-Xylene	43	2.0	ppb(v/v)	EPA-2 TO-15
MB8-LFG 06/01/04 15:00 004				
Carbon dioxide	21	0.018	%(v/v)	ASTM D1946
Oxygen	1.5	0.18	%(v/v)	ASTM D1946
Nitrogen	54	1.8	%(v/v)	ASTM D1946
Methane	21	0.00035	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	920	53	ppm-c	CFR60A EPA 25C
Chlorobenzene	21	7.1	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	230	7.1	ppb(v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	25	7.1	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	130	7.1	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	190	7.1	ppb(v/v)	EPA-2 TO-15
Dichlorofluoromethane	11	7.1	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	440	7.1	ppb(v/v)	EPA-2 TO-15
n-Hexane	280	7.1	ppb(v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E4F020134

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MB8-LFG 06/01/04 15:00 004				
Pentane	750	7.1	ppb(v/v)	EPA-2 TO-15
Trichloroethene	9.1	7.1	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	56	7.1	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	730	7.1	ppb(v/v)	EPA-2 TO-15
o-Xylene	300	7.1	ppb(v/v)	EPA-2 TO-15
n-Butane	1800	35	ppb(v/v)	EPA-2 TO-15
Propane	3100	88	ppb(v/v)	EPA-2 TO-15

ANALYTICAL METHODS SUMMARY

E4F020134

PARAMETER	ANALYTICAL METHOD
Fixed Gases	ASTM D1946
Non-Condensable	CFR60A EPA 25C
Sulfur Compounds	CFR60A EPA 15/16
Volatile Organics by TO15	EPA-2 TO-15

References:

ASTM Annual Book Of ASTM Standards.

CFR60A "Test Methods", 40 CFR, Part 60, Appendix A, July 1, 1993.

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

E4F020134

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GHFKQ	001	MB8-SUR	06/01/04	15:00
GHFKR	002	MB8-LFG	06/01/04	15:00
GHFKT	003	MB8-SUR	06/01/04	15:00
GHFKV	004	MB8-LFG	06/01/04	15:00

NOTE(S):

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

SCS ENGINEERS

Client Sample ID: MB8-SUR

GC Volatiles

Lot-Sample #...: E4F020134-001 **Work Order #...:** GHFKQ1AA **Matrix.....:** AIR
Date Sampled...: 06/01/04 15:00 **Date Received..:** 06/01/04
Prep Date.....: 06/02/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4156363 **Analysis Time..:** 09:44
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC4
Method.....: CFR60A EPA 15/16

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	ND	0.20	ppm(v/v)
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB8-LFG

GC Volatiles

Lot-Sample #...: E4F020134-002 **Work Order #...:** GHFKR1AA **Matrix.....:** AIR
Date Sampled...: 06/01/04 15:00 **Date Received..:** 06/01/04
Prep Date.....: 06/02/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4156363 **Analysis Time..:** 10:03
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC4
Method.....: CFR60A EPA 15/16

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB8-LFG

GC Volatiles

Lot-Sample #...:	E4F020134-002	**Work Order #...:**	GHFKR2AA	**Matrix.....:**	AIR
Date Sampled...:	06/01/04 15:00	**Date Received..:**	06/01/04		
Prep Date.....:	06/02/04	**Analysis Date..:**	06/02/04		
Prep Batch #...:	4156363	**Analysis Time..:**	14:51		
Dilution Factor:	20				
Analyst ID.....:	358011	**Instrument ID..:**	GC4		
		Method.....:	CFR60A EPA 15/16		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	**20**	**4.0**	**ppm(v/v)**

SCS ENGINEERS

Client Sample ID: MB8-SUR

GC/MS Volatiles

Lot-Sample #...:	E4F020134-003	**Work Order #...:**	GHFKT1AF	**Matrix.....:**	AIR
Date Sampled...:	06/01/04 15:00	**Date Received..:**	06/01/04		
Prep Date.....:	06/03/04	**Analysis Date..:**	06/03/04		
Prep Batch #...:	4159360	**Analysis Time..:**	12:34		
Dilution Factor:	1				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**83**	**10**	**ppb(v/v)**
Acrylonitrile	ND	10	ppb(v/v)
Bromodichloromethane	ND	2.0	ppb(v/v)
n-Butane	**280**	**2.0**	**ppb(v/v)**
2-Butanone (MEK)	**18**	**10**	**ppb(v/v)**
Carbon disulfide	ND	10	ppb(v/v)
Carbon tetrachloride	ND	2.0	ppb(v/v)
Chlorobenzene	**4.5**	**2.0**	**ppb(v/v)**
Chlorodifluoromethane	**86**	**2.0**	**ppb(v/v)**
Chloroethane	ND	4.0	ppb(v/v)
Chloroform	ND	2.0	ppb(v/v)
Chloromethane	ND	4.0	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)
1,2-Dichlorobenzene	**8.1**	**2.0**	**ppb(v/v)**
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)
1,4-Dichlorobenzene	**58**	**2.0**	**ppb(v/v)**
Dichlorodifluoromethane	**110**	**2.0**	**ppb(v/v)**
1,1-Dichloroethane	ND	2.0	ppb(v/v)
1,2-Dichloroethane	ND	2.0	ppb(v/v)
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)
1,1-Dichloroethene	ND	2.0	ppb(v/v)
Dichlorofluoromethane	**2.0**	**2.0**	**ppb(v/v)**
1,2-Dichloropropane	ND	2.0	ppb(v/v)
Ethanol	**30**	**25**	**ppb(v/v)**
Ethylbenzene	**190**	**2.0**	**ppb(v/v)**
n-Hexane	**33**	**2.0**	**ppb(v/v)**
Methylene chloride	ND	2.0	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)
Pentane	**120**	**2.0**	**ppb(v/v)**
Propane	**460**	**5.0**	**ppb(v/v)**
2-Propanol	ND	10	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)
Tetrachloroethene	ND	2.0	ppb(v/v)
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)
Trichloroethene	**3.8**	**2.0**	**ppb(v/v)**
Trichlorofluoromethane	ND	2.0	ppb(v/v)

(Continued on next page)

SCS ENGINEERS

Client Sample ID: MB8-SUR

GC/MS Volatiles

Lot-Sample #...: E4F020134-003 **Work Order #...:** GHFKT1AF **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Vinyl chloride	6.0	2.0	ppb(v/v)
m-Xylene & p-Xylene	150	2.0	ppb(v/v)
o-Xylene	43	2.0	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB8-SUR

GC Volatiles

Lot-Sample #...:	E4F020134-003	**Work Order #...:**	GHFKT1AC	**Matrix.....:**	AIR
Date Sampled...:	06/01/04 15:00	**Date Received..:**	06/01/04		
Prep Date.....:	06/02/04	**Analysis Date..:**	06/03/04		
Prep Batch #...:	4155174	**Analysis Time..:**	01:18		
Dilution Factor:	1.83				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**4.5**	**0.018**	**%(v/v)**
Oxygen	**17**	**0.18**	**%(v/v)**
Nitrogen	**74**	**1.8**	**%(v/v)**
Methane	**2.8**	**0.00037**	**%(v/v)**
Carbon monoxide	ND	0.0018	%(v/v)
Ethane	ND	0.00092	%(v/v)

SCS ENGINEERS

Client Sample ID: MB8-SUR

GC Volatiles

Lot-Sample #...:	E4F020134-003	**Work Order #...:**	GHFKT1AE	**Matrix.....:**	AIR
Date Sampled...:	06/01/04 15:00	**Date Received..:**	06/01/04		
Prep Date.....:	06/08/04	**Analysis Date..:**	06/08/04		
Prep Batch #...:	4161582	**Analysis Time..:**	18:48		
Dilution Factor:	1.83				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	**150**	**55**	**ppm-c**

SCS ENGINEERS

Client Sample ID: MB8-LFG

GC/MS Volatiles

Lot-Sample #...: E4F020134-004 **Work Order #...:** GHFKV1AF **Matrix.....:** AIR
Date Sampled...: 06/01/04 15:00 **Date Received..:** 06/01/04
Prep Date.....: 06/03/04 **Analysis Date..:** 06/03/04
Prep Batch #...: 4159360 **Analysis Time..:** 13:12
Dilution Factor: 3.53
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	ND	35	ppb(v/v)
Acrylonitrile	ND	35	ppb(v/v)
Bromodichloromethane	ND	7.1	ppb(v/v)
2-Butanone (MEK)	ND	35	ppb(v/v)
Carbon disulfide	ND	35	ppb(v/v)
Carbon tetrachloride	ND	7.1	ppb(v/v)
Chlorobenzene	**21**	**7.1**	**ppb(v/v)**
Chlorodifluoromethane	**230**	**7.1**	**ppb(v/v)**
Chloroethane	ND	14	ppb(v/v)
Chloroform	ND	7.1	ppb(v/v)
Chloromethane	ND	14	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	7.1	ppb(v/v)
1,2-Dichlorobenzene	**25**	**7.1**	**ppb(v/v)**
1,3-Dichlorobenzene	ND	7.1	ppb(v/v)
1,4-Dichlorobenzene	**130**	**7.1**	**ppb(v/v)**
Dichlorodifluoromethane	**190**	**7.1**	**ppb(v/v)**
1,1-Dichloroethane	ND	7.1	ppb(v/v)
1,2-Dichloroethane	ND	7.1	ppb(v/v)
trans-1,2-Dichloroethene	ND	7.1	ppb(v/v)
1,1-Dichloroethene	ND	7.1	ppb(v/v)
Dichlorofluoromethane	**11**	**7.1**	**ppb(v/v)**
1,2-Dichloropropane	ND	7.1	ppb(v/v)
Ethanol	ND	88	ppb(v/v)
Ethylbenzene	**440**	**7.1**	**ppb(v/v)**
n-Hexane	**280**	**7.1**	**ppb(v/v)**
Methylene chloride	ND	7.1	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	35	ppb(v/v)
Pentane	**750**	**7.1**	**ppb(v/v)**
2-Propanol	ND	35	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	7.1	ppb(v/v)
Tetrachloroethene	ND	7.1	ppb(v/v)
1,1,1-Trichloroethane	ND	7.1	ppb(v/v)
Trichloroethene	**9.1**	**7.1**	**ppb(v/v)**
Trichlorofluoromethane	ND	7.1	ppb(v/v)
Vinyl chloride	**56**	**7.1**	**ppb(v/v)**
m-Xylene & p-Xylene	**730**	**7.1**	**ppb(v/v)**

(Continued on next page)

SCS ENGINEERS

Client Sample ID: MB8-LFG

GC/MS Volatiles

Lot-Sample #...: E4F020134-004 Work Order #...: GHFKV1AF Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
o-Xylene	300	7.1	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB8-LFG

GC/MS Volatiles

Lot-Sample #...:	E4F020134-004	Work Order #...:	GHFKV2AF	Matrix.....:	AIR
Date Sampled...:	06/01/04 15:00	Date Received..:	06/01/04		
Prep Date.....:	06/03/04	Analysis Date..:	06/03/04		
Prep Batch #...:	4159360	Analysis Time..:	15:05		
Dilution Factor:	17.66				
Analyst ID.....:	117751	Instrument ID..:	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
n-Butane	1800	35	ppb(v/v)
Propane	3100	88	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB8-LFG

GC Volatiles

Lot-Sample #...:	E4F020134-004	**Work Order #...:**	GHFKV1AC	**Matrix.....:**	AIR
Date Sampled...:	06/01/04 15:00	**Date Received..:**	06/01/04		
Prep Date.....:	06/02/04	**Analysis Date..:**	06/03/04		
Prep Batch #...:	4155174	**Analysis Time..:**	02:32		
Dilution Factor:	1.76				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**21**	**0.018**	**%(v/v)**
Oxygen	**1.5**	**0.18**	**%(v/v)**
Nitrogen	**54**	**1.8**	**%(v/v)**
Methane	**21**	**0.00035**	**%(v/v)**
Carbon monoxide	ND	0.0018	%(v/v)
Ethane	ND	0.00088	%(v/v)

SCS ENGINEERS

Client Sample ID: MB8-LFG

GC Volatiles

Lot-Sample #...:	E4F020134-004	Work Order #...:	GHFKV1AE	Matrix.....:	AIR
Date Sampled...:	06/01/04 15:00	Date Received..:	06/01/04		
Prep Date.....:	06/02/04	Analysis Date..:	06/03/04		
Prep Batch #...:	4156502	Analysis Time..:	02:32		
Dilution Factor:	1.76				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	920	53	ppm-c

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E4F020134

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	CFR60A EPA 15/16		4156363	
002	AIR	CFR60A EPA 15/16		4156363	
003	AIR	EPA-2 TO-15		4159360	
	AIR	ASTM D1946		4155174	
	AIR	CFR60A EPA 25C		4161582	
004	AIR	EPA-2 TO-15		4159360	
	AIR	ASTM D1946		4155174	
	AIR	CFR60A EPA 25C		4156502	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4F020134 **Work Order #...:** GHQTD1AA **Matrix.....:** AIR
MB Lot-Sample #: M4F070000-360

Prep Date.....: 06/02/04 **Analysis Time..:** 19:50
Analysis Date..: 06/02/04 **Prep Batch #...:** 4159360 **Instrument ID..:** MSB
Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ppb(v/v)	EPA-2 TO-15
Acrylonitrile	ND	10	ppb(v/v)	EPA-2 TO-15
Bromodichloromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Carbon disulfide	ND	10	ppb(v/v)	EPA-2 TO-15
Carbon tetrachloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chloroethane	ND	4.0	ppb(v/v)	EPA-2 TO-15
Chloroform	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chloromethane	ND	4.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Dichlorofluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Ethanol	ND	25	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Trichlorofluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
n-Hexane	ND	2.0	ppb(v/v)	EPA-2 TO-15
2-Propanol	ND	10	ppb(v/v)	EPA-2 TO-15
Methylene chloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
Pentane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Tetrachloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Trichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
o-Xylene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	ND	10	ppb(v/v)	EPA-2 TO-15
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)	EPA-2 TO-15
n-Butane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Propane	ND	5.0	ppb(v/v)	EPA-2 TO-15

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4F020134 **Work Order #...:** GHQTD1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4F020134
MB Lot-Sample #: M4F030000-174
Analysis Date..: 06/02/04
Dilution Factor: 1

Work Order #...: GHRC21AA
Prep Date.....: 06/02/04
Prep Batch #...: 4155174
Analyst ID.....: 101605

Matrix.....: AIR
Analysis Time..: 12:09
Instrument ID..: GC3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon dioxide	ND	0.010	%(v/v)	ASTM D1946
Oxygen	ND	0.10	%(v/v)	ASTM D1946
Nitrogen	ND	1.0	%(v/v)	ASTM D1946
Methane	ND	0.00020	%(v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	%(v/v)	ASTM D1946
Ethane	ND	0.00050	%(v/v)	ASTM D1946

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4F020134
MB Lot-Sample #: M4F040000-363
Analysis Date..: 06/02/04
Dilution Factor: 1

Work Order #...: GHMWW1AA
Prep Date.....: 06/02/04
Prep Batch #...: 4156363
Analyst ID.....: 358011

Matrix.....: AIR
Analysis Time..: 09:22
Instrument ID..: GC4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hydrogen sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Carbonyl sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Methyl mercaptan	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Ethyl mercaptan	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Dimethyl sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4F020134
MB Lot-Sample #: M4F040000-502

Work Order #...: GHREP1AA

Matrix.....: AIR

Prep Date.....: 06/02/04

Analysis Time..: 14:42

Analysis Date..: 06/02/04

Prep Batch #...: 4156502

Instrument ID..: GC3

Dilution Factor: 1

Analyst ID.....: 101605

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Non-Methane Hydroca	ND	30	ppm-c	CFR60A EPA 25C

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4F020134
MB Lot-Sample #: M4F090000-582

Analysis Date..: 06/08/04
Dilution Factor: 1

Work Order #...: GH0G31AA

Prep Date.....: 06/08/04
Prep Batch #...: 4161582

Analyst ID.....: 101605

Matrix.....: AIR

Analysis Time..: 13:09
Instrument ID..: GC3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Non-Methane Hydroca	ND	30	ppm-c	CFR60A EPA 25C

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E4F020134 **Work Order #...:** GHQTD1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F070000-360 GHQTD1AD-LCSD
Prep Date.....: 06/02/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4159360 **Analysis Time..:** 18:50
Dilution Factor: 1 **Instrument ID..:** MSB
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**94**	**(70 - 125)**			**EPA-2 TO-15**
	97	**(70 - 125)**	**2.9**	**(0-20)**	**EPA-2 TO-15**
Methylene chloride	**84**	**(75 - 120)**			**EPA-2 TO-15**
	86	**(75 - 120)**	**3.0**	**(0-20)**	**EPA-2 TO-15**
Trichloroethene	**89**	**(70 - 125)**			**EPA-2 TO-15**
	89	**(70 - 125)**	**0.17**	**(0-20)**	**EPA-2 TO-15**
1,1,2,2-Tetrachloroethane	**81**	**(65 - 130)**			**EPA-2 TO-15**
	78	**(65 - 130)**	**3.6**	**(0-20)**	**EPA-2 TO-15**
Toluene	**84**	**(75 - 125)**			**EPA-2 TO-15**
	83	**(75 - 125)**	**0.51**	**(0-20)**	**EPA-2 TO-15**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E4F020134 **Work Order #...:** GHQTD1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F070000-360 GHQTD1AD-LCSD
Prep Date.....: 06/02/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4159360 **Analysis Time..:** 18:50
Dilution Factor: 1 **Instrument ID..:** MSB
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	59.2	55.5	ppb(v/v)	94		EPA-2 TO-15
	59.2	57.2	ppb(v/v)	97	2.9	EPA-2 TO-15
Methylene chloride	58.7	49.2	ppb(v/v)	84		EPA-2 TO-15
	58.7	50.7	ppb(v/v)	86	3.0	EPA-2 TO-15
Trichloroethene	59.5	53.1	ppb(v/v)	89		EPA-2 TO-15
	59.5	53.0	ppb(v/v)	89	0.17	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	55.4	45.0	ppb(v/v)	81		EPA-2 TO-15
	55.4	43.4	ppb(v/v)	78	3.6	EPA-2 TO-15
Toluene	55.7	46.6	ppb(v/v)	84		EPA-2 TO-15
	55.7	46.4	ppb(v/v)	83	0.51	EPA-2 TO-15

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4F020134 **Work Order #...:** GHRC21AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F030000-174 GHRC21AD-LCSD
Prep Date.....: 06/02/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4155174 **Analysis Time..:** 11:22
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Carbon dioxide	**94**	**(75 - 125)**			**ASTM D1946**
	93	**(75 - 125)**	**1.9**	**(0-20)**	**ASTM D1946**
Methane	**95**	**(75 - 135)**			**ASTM D1946**
	92	**(75 - 135)**	**3.4**	**(0-20)**	**ASTM D1946**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4F020134 **Work Order #...:** GHRC21AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F030000-174 GHRC21AD-LCSD
Prep Date.....: 06/02/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4155174 **Analysis Time..:** 11:22
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	**1.00**	**0.943**	**%(v/v)**	**94**		**ASTM D1946**
	1.00	**0.926**	**%(v/v)**	**93**	**1.9**	**ASTM D1946**
Methane	**0.0500**	**0.0477**	**%(v/v)**	**95**		**ASTM D1946**
	0.0500	**0.0461**	**%(v/v)**	**92**	**3.4**	**ASTM D1946**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4F020134 **Work Order #...:** GHMWW1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F040000-363 GHMWW1AD-LCSD
Prep Date.....: 06/02/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4156363 **Analysis Time..:** 08:42
Dilution Factor: 1 **Instrument ID..:** GC4
Analyst ID.....: 358011

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hydrogen sulfide	**102**	**(60 - 130)**			**CFR60A EPA 15/16**
	87	**(60 - 130)**	**16**	**(0-25)**	**CFR60A EPA 15/16**
Carbonyl sulfide	**108**	**(75 - 140)**			**CFR60A EPA 15/16**
	106	**(75 - 140)**	**1.2**	**(0-25)**	**CFR60A EPA 15/16**
Methyl mercaptan	**103**	**(75 - 130)**			**CFR60A EPA 15/16**
	85	**(75 - 130)**	**20**	**(0-25)**	**CFR60A EPA 15/16**
Carbon disulfide	**98**	**(70 - 120)**			**CFR60A EPA 15/16**
	95	**(70 - 120)**	**2.6**	**(0-25)**	**CFR60A EPA 15/16**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4F020134
LCS Lot-Sample#: M4F040000-363
Prep Date.....: 06/02/04
Prep Batch #...: 4156363
Dilution Factor: 1
Analyst ID.....: 358011

Work Order #...: GHMWW1AC-LCS
GHMWW1AD-LCSD
Analysis Date..: 06/02/04
Analysis Time..: 08:42
Instrument ID..: GC4

Matrix.....: AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Hydrogen sulfide	**0.940**	**0.961**	**ppm(v/v)**	**102**		**CFR60A EPA 15/16**
	0.940	**0.819**	**ppm(v/v)**	**87**	**16**	**CFR60A EPA 15/16**
Carbonyl sulfide	**1.10**	**1.18**	**ppm(v/v)**	**108**		**CFR60A EPA 15/16**
	1.10	**1.17**	**ppm(v/v)**	**106**	**1.2**	**CFR60A EPA 15/16**
Methyl mercaptan	**1.00**	**1.03**	**ppm(v/v)**	**103**		**CFR60A EPA 15/16**
	1.00	**0.849**	**ppm(v/v)**	**85**	**20**	**CFR60A EPA 15/16**
Carbon disulfide	**1.13**	**1.10**	**ppm(v/v)**	**98**		**CFR60A EPA 15/16**
	1.13	**1.08**	**ppm(v/v)**	**95**	**2.6**	**CFR60A EPA 15/16**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4F020134 **Work Order #...:** GHREP1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F040000-502 GHREP1AD-LCSD
Prep Date.....: 06/02/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4156502 **Analysis Time..:** 12:58
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Non-Methane Hydrocar	**98**	**(80 - 120)**			**CFR60A EPA 25C**
	102	**(80 - 120)**	**4.1**	**(0-20)**	**CFR60A EPA 25C**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4F020134 **Work Order #...:** GHREP1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F040000-502 GHREP1AD-LCSD
Prep Date.....: 06/02/04 **Analysis Date..:** 06/02/04
Prep Batch #...: 4156502 **Analysis Time..:** 12:58
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Non-Methane Hydrocar	**948**	**929**	**ppm-c**	**98**		**CFR60A EPA 25C**
	948	**968**	**ppm-c**	**102**	**4.1**	**CFR60A EPA 25C**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4F020134 **Work Order #...:** GH0G31AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F090000-582 GH0G31AD-LCSD
Prep Date.....: 06/08/04 **Analysis Date..:** 06/08/04
Prep Batch #...: 4161582 **Analysis Time..:** 12:20
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Non-Methane Hydrocar	**103**	**(80 - 120)**			**CFR60A EPA 25C**
	103	**(80 - 120)**	**0.0**	**(0-20)**	**CFR60A EPA 25C**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4F020134 **Work Order #...:** GH0G31AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F090000-582 GH0G31AD-LCSD
Prep Date.....: 06/08/04 **Analysis Date..:** 06/08/04
Prep Batch #...: 4161582 **Analysis Time..:** 12:20
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Non-Methane Hydrocar	**3000**	**3080**	**ppm-c**	**103**		**CFR60A EPA 25C**
	3000	**3080**	**ppm-c**	**103**	**0.0**	**CFR60A EPA 25C**

NOTE(S):

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

Bold print denotes control parameters

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

June 17, 2004

STL LOT NUMBER: **E4F030170**
PO/CONTRACT: 01203520.00

Raymond Huff
SCS Engineers
3711 Long Beach Boulevard
Ninth Floor
Long Beach, CA 90807-3315

Dear Mr. Huff,

This report contains the analytical results for the eight samples received under chain of custody by STL Los Angeles on June 2, 2004. These samples are associated with your Mission Bay LF project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is E87652.

Any matrix related anomaly is footnoted within the report. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page.

Preliminary results were sent via facsimile on June 15, 2004.

This report shall not be reproduced except in full, without the written approval of the laboratory.

000055

This report contains _____ pages.

CASE NARRATIVE

For EPA TO-15 analysis, the continuing calibration standard for Chlorodifluoromethane was not analyzed. The standard has expired and a replacement has been unavailable. The results for this analyte were reported as estimated. This was brought to Ms. Gabrielle Fourie's attention on June 15, 2004.

If you have any questions, please feel free to call me at (714) 258-8610.

Sincerely,

Marisol Tabirara

Marisol Tabirara
Project Manager

cc: Project File

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: SCS Engineers	Project Manager: Ray Huff	Date: 6/2/04	Chain of Custody Number: 127888
Address: 8799 Balboa Ave #290	Telephone Number (Area Code)/Fax Number: (562)426-9544 / (562) 427-0805	Lab Number: E4F030170	Page 1 of 1
City: San Diego; State: CA; Zip Code: 92123	Site Contact: K. Stackpole	Lab Contact:	
Project Name and Location (State): Mission Bay Landfill; San Diego, CA	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.: 01203520.00			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil		Unpres. Canister	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Tedlar bag	TO-15	ASTM-D1946 CO, Methane	EPA 15/16	EPA 25C	Special Instructions/ Conditions of Receipt
MB9-Sur	6/2/04	13:10	X											X			X		
MB9-Lfg			X											X			X		
MB9-Sur			X					X							X	X		X	
MB9-Lfg			X					X							X	X		X	
MB10-Sur		16:49	X											X			X		
MB10-Lfg			X											X			X		
MB10-Sur			X					X						X	X	X		X	
MB10-Lfg			X					X							X	X		X	

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt: APCD LFG CONSTITUENTS

000003

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Standard

QC Requirements (Specify):

1. Relinquished By: Karen Stackpole	Date: 6/2/04	Time: 17:20	1. Received By: Vincent Padilla	Date: 6/2/04	Time: 17:20
2. Relinquished By: Vincent Padilla	Date: 6/2/04	Time: 19:25	2. Received By: [signature]	Date: 6/2/2004	Time: 1929
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 2587
DATE CLEANED: 5·20·04E, 5·20·04F
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5·24·04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	12.22	6·3·04	
FINAL PRESSURE (PSIA)	23.74	6·3·04	

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL 4

CANISTER FIELD DATA RECORD

CLIENT: WMI
CANISTER SERIAL #: 332S
DATE CLEANED: 5-20-04E, 5-20-04F
CLIENT SAMPLE #:
SITE LOCATION:

VFR ID:
Duration of comp. : hrs. / mins.
Flow setting: ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5-24-04	RB
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	12.82	6-3-04	TD
FINAL PRESSURE (PSIA)	23.99	6-3-04	TD

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: UMI

CANISTER SERIAL #: 3416

DATE CLEANED: 5-20-04 F

CLIENT SAMPLE #:

SITE LOCATION:

VFR ID:

Duration of comp. : hrs. / mins.

Flow setting: ml/min

Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5/25/04	D
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	11.28	6/3/04	TO
FINAL PRESSURE (PSIA)	23.84	6-3-04	TO

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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8

SEVERN TRENT STL

CANISTER FIELD DATA RECORD

CLIENT: WMI

CANISTER SERIAL #: 3426

DATE CLEANED: 5-19-04C

CLIENT SAMPLE #:

SITE LOCATION:

VFR ID:

Duration of comp. : hrs. / mins.

Flow setting: ml/min

Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	5/25/04	(D)
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (PSIA)	11.22	6-3-04	TN
FINAL PRESSURE (PSIA)	23.98	6-3-04	TN

Pressurization Gas: _____

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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SEVERN TRENT STL

Analytical Report

ANALYTICAL REPORT

Mission Bay LF

Lot #: E4F030170

Raymond Huff

SCS Engineers

SEVERN TRENT LABORATORIES, INC.

Marisol Tabirara
Project Manager

June 15, 2004

EXECUTIVE SUMMARY - Detection Highlights

E4F030170

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MB9-SUR 06/02/04 13:10 001				
Hydrogen sulfide	0.24	0.20	ppm(v/v)	CFR60A EPA 15/16
MB9-LFG 06/02/04 13:10 002				
Hydrogen sulfide	1.8	0.20	ppm(v/v)	CFR60A EPA 15/16
MB9-SUR 06/02/04 13:10 003				
Carbon dioxide	8.9	0.019	%(v/v)	ASTM D1946
Oxygen	13	0.19	%(v/v)	ASTM D1946
Nitrogen	73	1.9	%(v/v)	ASTM D1946
Methane	5.0	0.00039	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	170	58	ppm-c	CFR60A EPA 25C
Acetone	45	10	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	12	10	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	4.4	2.0	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	38	2.0	ppb(v/v)	EPA-2 TO-15
Chloroform	11	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	7.7	2.0	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	91	2.0	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	49	2.0	ppb(v/v)	EPA-2 TO-15
Ethanol	160	25	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	140	2.0	ppb(v/v)	EPA-2 TO-15
n-Hexane	89	2.0	ppb(v/v)	EPA-2 TO-15
Pentane	240	2.0	ppb(v/v)	EPA-2 TO-15
2-Propanol	13	10	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	13	2.0	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	98	2.0	ppb(v/v)	EPA-2 TO-15
o-Xylene	49	2.0	ppb(v/v)	EPA-2 TO-15
n-Butane	640	19	ppb(v/v)	EPA-2 TO-15
Propane	1100	49	ppb(v/v)	EPA-2 TO-15
MB9-LFG 06/02/04 13:10 004				
Carbon dioxide	15	0.019	%(v/v)	ASTM D1946
Oxygen	9.6	0.19	%(v/v)	ASTM D1946
Nitrogen	58	1.9	%(v/v)	ASTM D1946
Methane	18	0.00037	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	870	56	ppm-c	CFR60A EPA 25C
Acetone	120	19	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	40	19	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	28	3.7	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	42	3.7	ppb(v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E4F030170

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MB9-LFG 06/02/04 13:10 004				
Chloroethane	8.5	7.5	ppb(v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	29	3.7	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	160	3.7	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	7.2	3.7	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	810	3.7	ppb(v/v)	EPA-2 TO-15
n-Hexane	220	3.7	ppb(v/v)	EPA-2 TO-15
Pentane	550	3.7	ppb(v/v)	EPA-2 TO-15
Trichloroethene	4.0	3.7	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	50	3.7	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	380	3.7	ppb(v/v)	EPA-2 TO-15
o-Xylene	210	3.7	ppb(v/v)	EPA-2 TO-15
n-Butane	1200	94	ppb(v/v)	EPA-2 TO-15
Propane	2200	230	ppb(v/v)	EPA-2 TO-15
MB10-LFG 06/02/04 16:49 006				
Hydrogen sulfide	0.28	0.20	ppm(v/v)	CFR60A EPA 15/16
MB10-SUR 06/02/04 16:49 007				
Carbon dioxide	1.3	0.021	%(v/v)	ASTM D1946
Oxygen	20	0.21	%(v/v)	ASTM D1946
Nitrogen	78	2.1	%(v/v)	ASTM D1946
Methane	0.018	0.00042	%(v/v)	ASTM D1946
Acetone	34	10	ppb(v/v)	EPA-2 TO-15
n-Butane	6.8	2.0	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	5.1	2.0	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	7.4	2.0	ppb(v/v)	EPA-2 TO-15
Pentane	2.9	2.0	ppb(v/v)	EPA-2 TO-15
Propane	21	5.0	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	22	2.0	ppb(v/v)	EPA-2 TO-15
o-Xylene	8.3	2.0	ppb(v/v)	EPA-2 TO-15
MB10-LFG 06/02/04 16:49 008				
Carbon dioxide	15	0.021	%(v/v)	ASTM D1946
Oxygen	4.0	0.21	%(v/v)	ASTM D1946
Nitrogen	68	2.1	%(v/v)	ASTM D1946
Methane	12	0.00043	%(v/v)	ASTM D1946
Total Non-Methane Hydrocarbons	450	64	ppm-c	CFR60A EPA 25C
Acetone	39	21	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	6.2	4.3	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	23	4.3	ppb(v/v)	EPA-2 TO-15

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EXECUTIVE SUMMARY - Detection Highlights

E4F030170

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MB10-LFG 06/02/04 16:49 008				
1,4-Dichlorobenzene	17	4.3	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	14	4.3	ppb(v/v)	EPA-2 TO-15
n-Hexane	250	4.3	ppb(v/v)	EPA-2 TO-15
Pentane	770	4.3	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	8.7	4.3	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	14	4.3	ppb(v/v)	EPA-2 TO-15
o-Xylene	7.2	4.3	ppb(v/v)	EPA-2 TO-15
n-Butane	1600	110	ppb(v/v)	EPA-2 TO-15
Propane	2300	270	ppb(v/v)	EPA-2 TO-15

ANALYTICAL METHODS SUMMARY

E4F030170

PARAMETER	ANALYTICAL METHOD
Fixed Gases	ASTM D1946
Non-Condensable	CFR60A EPA 25C
Sulfur Compounds	CFR60A EPA 15/16
Volatile Organics by TO15	EPA-2 TO-15

References:

ASTM Annual Book Of ASTM Standards.

CFR60A "Test Methods", 40 CFR, Part 60, Appendix A, July 1, 1993.

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

E4F030170

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GHH5R	001	MB9-SUR	06/02/04	13:10
GHH5X	002	MB9-LFG	06/02/04	13:10
GHH51	003	MB9-SUR	06/02/04	13:10
GHH53	004	MB9-LFG	06/02/04	13:10
GHH54	005	MB10-SUR	06/02/04	16:49
GHH55	006	MB10-LFG	06/02/04	16:49
GHH57	007	MB10-SUR	06/02/04	16:49
GHH6A	008	MB10-LFG	06/02/04	16:49

NOTE(S):

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

SCS ENGINEERS

Client Sample ID: MB9-SUR

GC Volatiles

Lot-Sample #...:	E4F030170-001	**Work Order #...:**	GHH5R1AA	**Matrix.....:**	AIR
Date Sampled...:	06/02/04 13:10	**Date Received..:**	06/02/04		
Prep Date.....:	06/03/04	**Analysis Date..:**	06/03/04		
Prep Batch #...:	4159297	**Analysis Time..:**	09:17		
Dilution Factor:	1				
Analyst ID.....:	358011	**Instrument ID..:**	GC4		
		Method.....:	CFR60A EPA 15/16		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	**0.24**	**0.20**	**ppm(v/v)**
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB9-LFG

GC Volatiles

Lot-Sample #...: E4F030170-002 **Work Order #...:** GHH5X1AA **Matrix.....:** AIR
Date Sampled...: 06/02/04 13:10 **Date Received..:** 06/02/04
Prep Date.....: 06/03/04 **Analysis Date..:** 06/03/04
Prep Batch #...: 4159297 **Analysis Time..:** 08:55
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC4
Method.....: CFR60A EPA 15/16

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	**1.8**	**0.20**	**ppm(v/v)**
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB9-SUR

GC/MS Volatiles

Lot-Sample #...:	E4F030170-003	**Work Order #...:**	GHH511AF	**Matrix.....:**	AIR
Date Sampled...:	06/02/04 13:10	**Date Received..:**	06/02/04		
Prep Date.....:	06/08/04	**Analysis Date..:**	06/08/04		
Prep Batch #...:	4163459	**Analysis Time..:**	20:31		
Dilution Factor:	1				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**45**	**10**	**ppb(v/v)**
Acrylonitrile	ND	10	ppb(v/v)
Bromodichloromethane	ND	2.0	ppb(v/v)
2-Butanone (MEK)	**12**	**10**	**ppb(v/v)**
Carbon disulfide	ND	10	ppb(v/v)
Carbon tetrachloride	ND	2.0	ppb(v/v)
Chlorobenzene	**4.4**	**2.0**	**ppb(v/v)**
Chlorodifluoromethane	**38**	**2.0**	**ppb(v/v)**
Chloroethane	ND	4.0	ppb(v/v)
Chloroform	**11**	**2.0**	**ppb(v/v)**
Chloromethane	ND	4.0	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)
1,2-Dichlorobenzene	**7.7**	**2.0**	**ppb(v/v)**
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)
1,4-Dichlorobenzene	**91**	**2.0**	**ppb(v/v)**
Dichlorodifluoromethane	**49**	**2.0**	**ppb(v/v)**
1,1-Dichloroethane	ND	2.0	ppb(v/v)
1,2-Dichloroethane	ND	2.0	ppb(v/v)
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)
1,1-Dichloroethene	ND	2.0	ppb(v/v)
Dichlorofluoromethane	ND	2.0	ppb(v/v)
1,2-Dichloropropane	ND	2.0	ppb(v/v)
Ethanol	**160**	**25**	**ppb(v/v)**
Ethylbenzene	**140**	**2.0**	**ppb(v/v)**
n-Hexane	**89**	**2.0**	**ppb(v/v)**
Methylene chloride	ND	2.0	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)
Pentane	**240**	**2.0**	**ppb(v/v)**
2-Propanol	**13**	**10**	**ppb(v/v)**
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)
Tetrachloroethene	ND	2.0	ppb(v/v)
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)
Trichloroethene	ND	2.0	ppb(v/v)
Trichlorofluoromethane	ND	2.0	ppb(v/v)
Vinyl chloride	**13**	**2.0**	**ppb(v/v)**
m-Xylene & p-Xylene	**98**	**2.0**	**ppb(v/v)**

(Continued on next page)

SCS ENGINEERS

Client Sample ID: MB9-SUR

GC/MS Volatiles

Lot-Sample #...: E4F030170-003 **Work Order #...:** GHH511AF **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
o-Xylene	49	2.0	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB9-SUR

GC/MS Volatiles

Lot-Sample #...:	E4F030170-003	Work Order #...:	GHH512AF	Matrix.....:	AIR
Date Sampled...:	06/02/04 13:10	Date Received..:	06/02/04		
Prep Date.....:	06/08/04	Analysis Date..:	06/08/04		
Prep Batch #...:	4163459	Analysis Time..:	21:07		
Dilution Factor:	9.71				
Analyst ID.....:	117751	Instrument ID..:	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
n-Butane	640	19	ppb(v/v)
Propane	1100	49	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB9-SUR

GC Volatiles

Lot-Sample #...:	E4F030170-003	**Work Order #...:**	GHH511AC	**Matrix.....:**	AIR
Date Sampled...:	06/02/04 13:10	**Date Received..:**	06/02/04		
Prep Date.....:	06/04/04	**Analysis Date..:**	06/04/04		
Prep Batch #...:	4156500	**Analysis Time..:**	14:31		
Dilution Factor:	1.94				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**8.9**	**0.019**	**%(v/v)**
Oxygen	**13**	**0.19**	**%(v/v)**
Nitrogen	**73**	**1.9**	**%(v/v)**
Methane	**5.0**	**0.00039**	**%(v/v)**
Carbon monoxide	ND	0.0019	%(v/v)
Ethane	ND	0.00097	%(v/v)

SCS ENGINEERS

Client Sample ID: MB9-SUR

GC Volatiles

Lot-Sample #...:	E4F030170-003	Work Order #...:	GHH511AE	Matrix.....:	AIR
Date Sampled...:	06/02/04 13:10	Date Received..:	06/02/04		
Prep Date.....:	06/04/04	Analysis Date..:	06/04/04		
Prep Batch #...:	4156504	Analysis Time..:	14:31		
Dilution Factor:	1.94				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	170	58	ppm-c

SCS ENGINEERS

Client Sample ID: MB9-LFG

GC/MS Volatiles

Lot-Sample #...:	E4F030170-004	**Work Order #...:**	GHH531AF	**Matrix.....:**	AIR
Date Sampled...:	06/02/04 13:10	**Date Received..:**	06/02/04		
Prep Date.....:	06/08/04	**Analysis Date..:**	06/08/04		
Prep Batch #...:	4163459	**Analysis Time..:**	21:43		
Dilution Factor:	1.87				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**120**	**19**	**ppb(v/v)**
Acrylonitrile	ND	19	ppb(v/v)
Bromodichloromethane	ND	3.7	ppb(v/v)
2-Butanone (MEK)	**40**	**19**	**ppb(v/v)**
Carbon disulfide	ND	19	ppb(v/v)
Carbon tetrachloride	ND	3.7	ppb(v/v)
Chlorobenzene	**28**	**3.7**	**ppb(v/v)**
Chlorodifluoromethane	**42**	**3.7**	**ppb(v/v)**
Chloroethane	**8.5**	**7.5**	**ppb(v/v)**
Chloroform	ND	3.7	ppb(v/v)
Chloromethane	ND	7.5	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	3.7	ppb(v/v)
1,2-Dichlorobenzene	**29**	**3.7**	**ppb(v/v)**
1,3-Dichlorobenzene	ND	3.7	ppb(v/v)
1,4-Dichlorobenzene	**160**	**3.7**	**ppb(v/v)**
Dichlorodifluoromethane	**7.2**	**3.7**	**ppb(v/v)**
1,1-Dichloroethane	ND	3.7	ppb(v/v)
1,2-Dichloroethane	ND	3.7	ppb(v/v)
trans-1,2-Dichloroethene	ND	3.7	ppb(v/v)
1,1-Dichloroethene	ND	3.7	ppb(v/v)
Dichlorofluoromethane	ND	3.7	ppb(v/v)
1,2-Dichloropropane	ND	3.7	ppb(v/v)
Ethanol	ND	47	ppb(v/v)
Ethylbenzene	**810**	**3.7**	**ppb(v/v)**
n-Hexane	**220**	**3.7**	**ppb(v/v)**
Methylene chloride	ND	3.7	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	19	ppb(v/v)
Pentane	**550**	**3.7**	**ppb(v/v)**
2-Propanol	ND	19	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	3.7	ppb(v/v)
Tetrachloroethene	ND	3.7	ppb(v/v)
1,1,1-Trichloroethane	ND	3.7	ppb(v/v)
Trichloroethene	**4.0**	**3.7**	**ppb(v/v)**
Trichlorofluoromethane	ND	3.7	ppb(v/v)
Vinyl chloride	**50**	**3.7**	**ppb(v/v)**
m-Xylene & p-Xylene	**380**	**3.7**	**ppb(v/v)**

(Continued on next page)

SCS ENGINEERS

Client Sample ID: MB9-LFG

GC/MS Volatiles

Lot-Sample #...: E4F030170-004 Work Order #...: GHH531AF Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
o-Xylene	210	3.7	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB9-LFG

GC/MS Volatiles

Lot-Sample #...:	E4F030170-004	Work Order #...:	GHH532AF	Matrix.....:	AIR
Date Sampled...:	06/02/04 13:10	Date Received..:	06/02/04		
Prep Date.....:	06/08/04	Analysis Date..:	06/08/04		
Prep Batch #...:	4163459	Analysis Time..:	22:20		
Dilution Factor:	46.88				
Analyst ID.....:	117751	Instrument ID..:	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
n-Butane	1200	94	ppb(v/v)
Propane	2200	230	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB9-LFG

GC Volatiles

Lot-Sample #...:	E4F030170-004	**Work Order #...:**	GHH531AC	**Matrix.....:**	AIR
Date Sampled...:	06/02/04 13:10	**Date Received..:**	06/02/04		
Prep Date.....:	06/04/04	**Analysis Date..:**	06/04/04		
Prep Batch #...:	4156500	**Analysis Time..:**	15:46		
Dilution Factor:	1.87				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**15**	**0.019**	**%(v/v)**
Oxygen	**9.6**	**0.19**	**%(v/v)**
Nitrogen	**58**	**1.9**	**%(v/v)**
Methane	**18**	**0.00037**	**%(v/v)**
Carbon monoxide	ND	0.0019	%(v/v)
Ethane	ND	0.00094	%(v/v)

SCS ENGINEERS

Client Sample ID: MB9-LFG

GC Volatiles

Lot-Sample #...:	E4F030170-004	Work Order #...:	GHH531AE	Matrix.....:	AIR
Date Sampled...:	06/02/04 13:10	Date Received..:	06/02/04		
Prep Date.....:	06/04/04	Analysis Date..:	06/04/04		
Prep Batch #...:	4156504	Analysis Time..:	15:46		
Dilution Factor:	1.87				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	870	56	ppm-c

SCS ENGINEERS

Client Sample ID: MB10-SUR

GC Volatiles

Lot-Sample #...:	E4F030170-005	**Work Order #...:**	GHH541AA	**Matrix.....:**	AIR
Date Sampled...:	06/02/04 16:49	**Date Received..:**	06/02/04		
Prep Date.....:	06/03/04	**Analysis Date..:**	06/03/04		
Prep Batch #...:	4159297	**Analysis Time..:**	10:02		
Dilution Factor:	1				
Analyst ID.....:	358011	**Instrument ID..:**	GC4		
		Method.....:	CFR60A EPA 15/16		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	ND	0.20	ppm(v/v)
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB10-LFG

GC Volatiles

Lot-Sample #...:	E4F030170-006	**Work Order #...:**	GHH551AA	**Matrix.....:**	AIR
Date Sampled...:	06/02/04 16:49	**Date Received..:**	06/02/04		
Prep Date.....:	06/03/04	**Analysis Date..:**	06/03/04		
Prep Batch #...:	4159297	**Analysis Time..:**	09:43		
Dilution Factor:	1				
Analyst ID.....:	358011	**Instrument ID..:**	GC4		
		Method.....:	CFR60A EPA 15/16		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	**0.28**	**0.20**	**ppm(v/v)**
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: MB10-SUR

GC/MS Volatiles

Lot-Sample #...: E4F030170-007 **Work Order #...:** GHH571AF **Matrix.....:** AIR
Date Sampled...: 06/02/04 16:49 **Date Received..:** 06/02/04
Prep Date.....: 06/08/04 **Analysis Date..:** 06/08/04
Prep Batch #...: 4163459 **Analysis Time..:** 22:56
Dilution Factor: 1
Analyst ID.....: 117751 **Instrument ID..:** MSB
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**34**	**10**	**ppb(v/v)**
Acrylonitrile	ND	10	ppb(v/v)
Bromodichloromethane	ND	2.0	ppb(v/v)
n-Butane	**6.8**	**2.0**	**ppb(v/v)**
2-Butanone (MEK)	ND	10	ppb(v/v)
Carbon disulfide	ND	10	ppb(v/v)
Carbon tetrachloride	ND	2.0	ppb(v/v)
Chlorobenzene	ND	2.0	ppb(v/v)
Chlorodifluoromethane	ND	2.0	ppb(v/v)
Chloroethane	ND	4.0	ppb(v/v)
Chloroform	ND	2.0	ppb(v/v)
Chloromethane	ND	4.0	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)
1,4-Dichlorobenzene	**5.1**	**2.0**	**ppb(v/v)**
Dichlorodifluoromethane	ND	2.0	ppb(v/v)
1,1-Dichloroethane	ND	2.0	ppb(v/v)
1,2-Dichloroethane	ND	2.0	ppb(v/v)
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)
1,1-Dichloroethene	ND	2.0	ppb(v/v)
Dichlorofluoromethane	ND	2.0	ppb(v/v)
1,2-Dichloropropane	ND	2.0	ppb(v/v)
Ethanol	ND	25	ppb(v/v)
Ethylbenzene	**7.4**	**2.0**	**ppb(v/v)**
n-Hexane	ND	2.0	ppb(v/v)
Methylene chloride	ND	2.0	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)
Pentane	**2.9**	**2.0**	**ppb(v/v)**
Propane	**21**	**5.0**	**ppb(v/v)**
2-Propanol	ND	10	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)
Tetrachloroethene	ND	2.0	ppb(v/v)
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)
Trichloroethene	ND	2.0	ppb(v/v)
Trichlorofluoromethane	ND	2.0	ppb(v/v)

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SCS ENGINEERS

Client Sample ID: MB10-SUR

GC/MS Volatiles

Lot-Sample #...: E4F030170-007 **Work Order #...:** GHH571AF **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Vinyl chloride	ND	2.0	ppb(v/v)
m-Xylene & p-Xylene	**22**	**2.0**	**ppb(v/v)**
o-Xylene	**8.3**	**2.0**	**ppb(v/v)**

SCS ENGINEERS

Client Sample ID: MB10-SUR

GC Volatiles

Lot-Sample #...:	E4F030170-007	**Work Order #...:**	GHH571AC	**Matrix.....:**	AIR
Date Sampled...:	06/02/04 16:49	**Date Received..:**	06/02/04		
Prep Date.....:	06/04/04	**Analysis Date..:**	06/04/04		
Prep Batch #...:	4156500	**Analysis Time..:**	19:25		
Dilution Factor:	2.11				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**1.3**	**0.021**	**%(v/v)**
Oxygen	**20**	**0.21**	**%(v/v)**
Nitrogen	**78**	**2.1**	**%(v/v)**
Methane	**0.018**	**0.00042**	**%(v/v)**
Carbon monoxide	ND	0.0021	%(v/v)
Ethane	ND	0.0011	%(v/v)

SCS ENGINEERS

Client Sample ID: MB10-SUR

GC Volatiles

Lot-Sample #...:	E4F030170-007	**Work Order #...:**	GHH571AE	**Matrix.....:**	AIR
Date Sampled...:	06/02/04 16:49	**Date Received..:**	06/02/04		
Prep Date.....:	06/08/04	**Analysis Date..:**	06/08/04		
Prep Batch #...:	4161582	**Analysis Time..:**	17:35		
Dilution Factor:	2.11				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	ND	63	ppm-c

SCS ENGINEERS

Client Sample ID: MB10-LFG

GC/MS Volatiles

Lot-Sample #...:	E4F030170-008	**Work Order #...:**	GHH6A1AF	**Matrix.....:**	AIR
Date Sampled...:	06/02/04 16:49	**Date Received..:**	06/02/04		
Prep Date.....:	06/09/04	**Analysis Date..:**	06/09/04		
Prep Batch #...:	4163459	**Analysis Time..:**	00:09		
Dilution Factor:	2.14				
Analyst ID.....:	117751	**Instrument ID..:**	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acetone	**39**	**21**	**ppb(v/v)**
Acrylonitrile	ND	21	ppb(v/v)
Bromodichloromethane	ND	4.3	ppb(v/v)
2-Butanone (MEK)	ND	21	ppb(v/v)
Carbon disulfide	ND	21	ppb(v/v)
Carbon tetrachloride	ND	4.3	ppb(v/v)
Chlorobenzene	**6.2**	**4.3**	**ppb(v/v)**
Chlorodifluoromethane	**23**	**4.3**	**ppb(v/v)**
Chloroethane	ND	8.6	ppb(v/v)
Chloroform	ND	4.3	ppb(v/v)
Chloromethane	ND	8.6	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	4.3	ppb(v/v)
1,2-Dichlorobenzene	ND	4.3	ppb(v/v)
1,3-Dichlorobenzene	ND	4.3	ppb(v/v)
1,4-Dichlorobenzene	**17**	**4.3**	**ppb(v/v)**
Dichlorodifluoromethane	ND	4.3	ppb(v/v)
1,1-Dichloroethane	ND	4.3	ppb(v/v)
1,2-Dichloroethane	ND	4.3	ppb(v/v)
trans-1,2-Dichloroethene	ND	4.3	ppb(v/v)
1,1-Dichloroethene	ND	4.3	ppb(v/v)
Dichlorofluoromethane	ND	4.3	ppb(v/y)
1,2-Dichloropropane	ND	4.3	ppb(v/v)
Ethanol	ND	54	ppb(v/v)
Ethylbenzene	**14**	**4.3**	**ppb(v/v)**
n-Hexane	**250**	**4.3**	**ppb(v/v)**
Methylene chloride	ND	4.3	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	21	ppb(v/v)
Pentane	**770**	**4.3**	**ppb(v/v)**
2-Propanol	ND	21	ppb(v/v)
1,1,2,2-Tetrachloroethane	ND	4.3	ppb(v/v)
Tetrachloroethene	ND	4.3	ppb(v/v)
1,1,1-Trichloroethane	ND	4.3	ppb(v/v)
Trichloroethene	ND	4.3	ppb(v/v)
Trichlorofluoromethane	ND	4.3	ppb(v/v)
Vinyl chloride	**8.7**	**4.3**	**ppb(v/v)**
m-Xylene & p-Xylene	**14**	**4.3**	**ppb(v/v)**

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SCS ENGINEERS

Client Sample ID: MB10-LFG

GC/MS Volatiles

Lot-Sample #...: E4F030170-008 Work Order #...: GHH6A1AF Matrix.....: AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
o-Xylene	7.2	4.3	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB10-LFG

GC/MS Volatiles

Lot-Sample #...:	E4F030170-008	Work Order #...:	GHH6A2AF	Matrix.....:	AIR
Date Sampled...:	06/02/04 16:49	Date Received..:	06/02/04		
Prep Date.....:	06/08/04	Analysis Date..:	06/09/04		
Prep Batch #...:	4163459	Analysis Time..:	00:45		
Dilution Factor:	53.57				
Analyst ID.....:	117751	Instrument ID..:	MSB		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
n-Butane	1600	110	ppb(v/v)
Propane	2300	270	ppb(v/v)

SCS ENGINEERS

Client Sample ID: MB10-LFG

GC Volatiles

Lot-Sample #...:	E4F030170-008	**Work Order #...:**	GHH6A1AC	**Matrix.....:**	AIR
Date Sampled...:	06/02/04 16:49	**Date Received..:**	06/02/04		
Prep Date.....:	06/04/04	**Analysis Date..:**	06/04/04		
Prep Batch #...:	4156500	**Analysis Time..:**	21:59		
Dilution Factor:	2.14				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**15**	**0.021**	**%(v/v)**
Oxygen	**4.0**	**0.21**	**%(v/v)**
Nitrogen	**68**	**2.1**	**%(v/v)**
Methane	**12**	**0.00043**	**%(v/v)**
Carbon monoxide	ND	0.0021	%(v/v)
Ethane	ND	0.0011	%(v/v)

SCS ENGINEERS

Client Sample ID: MB10-LFG

GC Volatiles

Lot-Sample #...:	E4F030170-008	Work Order #...:	GHH6A1AE	Matrix.....:	AIR
Date Sampled...:	06/02/04 16:49	Date Received..:	06/02/04		
Prep Date.....:	06/04/04	Analysis Date..:	06/04/04		
Prep Batch #...:	4156504	Analysis Time..:	21:59		
Dilution Factor:	2.13				
Analyst ID.....:	101605	Instrument ID..:	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	450	64	ppm-c

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E4F030170

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	CFR60A EPA 15/16		4159297	
002	AIR	CFR60A EPA 15/16		4159297	
003	AIR	EPA-2 TO-15		4163459	
	AIR	ASTM D1946		4156500	
	AIR	CFR60A EPA 25C		4156504	
004	AIR	EPA-2 TO-15		4163459	
	AIR	ASTM D1946		4156500	
	AIR	CFR60A EPA 25C		4156504	
005	AIR	CFR60A EPA 15/16		4159297	
006	AIR	CFR60A EPA 15/16		4159297	
007	AIR	EPA-2 TO-15		4163459	
	AIR	ASTM D1946		4156500	
	AIR	CFR60A EPA 25C		4161582	
008	AIR	EPA-2 TO-15		4163459	
	AIR	ASTM D1946		4156500	
	AIR	CFR60A EPA 25C		4156504	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4F030170
MB Lot-Sample #: M4F110000-459

Work Order #...: GH59H1AA

Matrix.....: AIR

Prep Date.....: 06/08/04
Prep Batch #...: 4163459

Analysis Time..: 12:38
Instrument ID..: MSB

Analysis Date..: 06/08/04
Dilution Factor: 1

Analyst ID.....: 117751

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ppb(v/v)	EPA-2 TO-15
Acrylonitrile	ND	10	ppb(v/v)	EPA-2 TO-15
Bromodichloromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Carbon disulfide	ND	10	ppb(v/v)	EPA-2 TO-15
Carbon tetrachloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chloroethane	ND	4.0	ppb(v/v)	EPA-2 TO-15
Chloroform	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chloromethane	ND	4.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,3-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Dichlorofluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Ethanol	ND	25	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Trichlorofluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
n-Hexane	ND	2.0	ppb(v/v)	EPA-2 TO-15
2-Propanol	ND	10	ppb(v/v)	EPA-2 TO-15
Methylene chloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
Pentane	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Tetrachloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Trichloroethene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	ND	2.0	ppb(v/v)	EPA-2 TO-15
o-Xylene	ND	2.0	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	ND	2.0	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	ND	2.0	ppb(v/v)	EPA-2 TO-15
1,2-Dibromoethane (EDB)	ND	2.0	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	ND	10	ppb(v/v)	EPA-2 TO-15
4-Methyl-2-pentanone (MIBK)	ND	10	ppb(v/v)	EPA-2 TO-15
n-Butane	ND	2.0	ppb(v/v)	EPA-2 TO-15
Propane	ND	5.0	ppb(v/v)	EPA-2 TO-15

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4F030170 **Work Order #...:** GH59H1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4F030170
MB Lot-Sample #: M4F040000-500
Analysis Date..: 06/04/04
Dilution Factor: 1

Work Order #...: GHRC11AA
Prep Date.....: 06/04/04
Prep Batch #...: 4156500
Analyst ID.....: 101605

Matrix.....: AIR
Analysis Time..: 13:18
Instrument ID..: GC3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon dioxide	ND	0.010	%(v/v)	ASTM D1946
Oxygen	ND	0.10	%(v/v)	ASTM D1946
Nitrogen	ND	1.0	%(v/v)	ASTM D1946
Methane	ND	0.00020	%(v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	%(v/v)	ASTM D1946
Ethane	ND	0.00050	%(v/v)	ASTM D1946

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4F030170
MB Lot-Sample #: M4F070000-297

Analysis Date..: 06/03/04
Dilution Factor: 1

Work Order #...: GHQKJ1AA

Prep Date.....: 06/03/04
Prep Batch #...: 4159297

Analyst ID.....: 358011

Matrix.....: AIR

Analysis Time..: 08:32
Instrument ID..: GC4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hydrogen sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Carbonyl sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Methyl mercaptan	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Ethyl mercaptan	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Dimethyl sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4F030170
MB Lot-Sample #: M4F040000-504

Analysis Date..: 06/04/04
Dilution Factor: 1

Work Order #...: GHRKA1AA

Prep Date.....: 06/04/04
Prep Batch #...: 4156504

Analyst ID.....: 101605

Matrix.....: AIR

Analysis Time..: 13:18
Instrument ID..: GC3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Non-Methane Hydroca	ND	30	ppm-c	CFR60A EPA 25C

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4F030170
MB Lot-Sample #: M4F090000-582

Analysis Date..: 06/08/04
Dilution Factor: 1

Work Order #...: GH0G31AA

Prep Date.....: 06/08/04
Prep Batch #...: 4161582

Analyst ID.....: 101605

Matrix.....: AIR

Analysis Time..: 13:09
Instrument ID..: GC3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Non-Methane Hydroca	ND	30	ppm-c	CFR60A EPA 25C

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E4F030170 **Work Order #...:** GH59H1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F110000-459 GH59H1AD-LCSD
Prep Date.....: 06/08/04 **Analysis Date..:** 06/08/04
Prep Batch #...: 4163459 **Analysis Time..:** 11:23
Dilution Factor: 1 **Instrument ID..:** MSB
Analyst ID.....: 117751

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**95**	**(70 - 125)**			**EPA-2 TO-15**
	92	**(70 - 125)**	**3.0**	**(0-20)**	**EPA-2 TO-15**
Methylene chloride	**83**	**(75 - 120)**			**EPA-2 TO-15**
	80	**(75 - 120)**	**2.9**	**(0-20)**	**EPA-2 TO-15**
Trichloroethene	**90**	**(70 - 125)**			**EPA-2 TO-15**
	88	**(70 - 125)**	**2.7**	**(0-20)**	**EPA-2 TO-15**
1,1,2,2-Tetrachloroethane	**77**	**(65 - 130)**			**EPA-2 TO-15**
	76	**(65 - 130)**	**1.9**	**(0-20)**	**EPA-2 TO-15**
Toluene	**81**	**(75 - 125)**			**EPA-2 TO-15**
	79	**(75 - 125)**	**2.2**	**(0-20)**	**EPA-2 TO-15**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E4F030170 **Work Order #...:** GH59H1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F110000-459 GH59H1AD-LCSD
Prep Date.....: 06/08/04 **Analysis Date..:** 06/08/04
Prep Batch #...: 4163459 **Analysis Time..:** 11:23
Dilution Factor: 1 **Instrument ID..:** MSB
Analyst ID.....: 117751

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	**59.2**	**55.9**	**ppb(v/v)**	**95**		**EPA-2 TO-15**
	59.2	**54.2**	**ppb(v/v)**	**92**	**3.0**	**EPA-2 TO-15**
Methylene chloride	**58.7**	**48.6**	**ppb(v/v)**	**83**		**EPA-2 TO-15**
	58.7	**47.2**	**ppb(v/v)**	**80**	**2.9**	**EPA-2 TO-15**
Trichloroethene	**59.5**	**53.7**	**ppb(v/v)**	**90**		**EPA-2 TO-15**
	59.5	**52.3**	**ppb(v/v)**	**88**	**2.7**	**EPA-2 TO-15**
1,1,2,2-Tetrachloroethane	**55.4**	**42.6**	**ppb(v/v)**	**77**		**EPA-2 TO-15**
	55.4	**41.8**	**ppb(v/v)**	**76**	**1.9**	**EPA-2 TO-15**
Toluene	**55.7**	**45.2**	**ppb(v/v)**	**81**		**EPA-2 TO-15**
	55.7	**44.2**	**ppb(v/v)**	**79**	**2.2**	**EPA-2 TO-15**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4F030170 **Work Order #...:** GHRC11AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F040000-500 GHRC11AD-LCSD
Prep Date.....: 06/04/04 **Analysis Date..:** 06/04/04
Prep Batch #...: 4156500 **Analysis Time..:** 10:29
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Carbon dioxide	**101**	**(75 - 125)**			**ASTM D1946**
	100	**(75 - 125)**	**0.35**	**(0-20)**	**ASTM D1946**
Methane	**89**	**(75 - 135)**			**ASTM D1946**
	89	**(75 - 135)**	**0.13**	**(0-20)**	**ASTM D1946**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4F030170 **Work Order #...:** GHRC11AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F040000-500 GHRC11AD-LCSD
Prep Date.....: 06/04/04 **Analysis Date..:** 06/04/04
Prep Batch #...: 4156500 **Analysis Time..:** 10:29
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	**1.00**	**1.01**	**%(v/v)**	**101**		**ASTM D1946**
	1.00	**1.00**	**%(v/v)**	**100**	**0.35**	**ASTM D1946**
Methane	**0.0500**	**0.0443**	**%(v/v)**	**89**		**ASTM D1946**
	0.0500	**0.0443**	**%(v/v)**	**89**	**0.13**	**ASTM D1946**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4F030170 **Work Order #...:** GHQKJ1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F070000-297 GHQKJ1AD-LCSD
Prep Date.....: 06/03/04 **Analysis Date..:** 06/03/04
Prep Batch #...: 4159297 **Analysis Time..:** 07:53
Dilution Factor: 1 **Instrument ID..:** GC4
Analyst ID.....: 358011

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hydrogen sulfide	**111**	**(60 - 130)**			**CFR60A EPA 15/16**
	110	**(60 - 130)**	**0.19**	**(0-25)**	**CFR60A EPA 15/16**
Carbonyl sulfide	**110**	**(75 - 140)**			**CFR60A EPA 15/16**
	112	**(75 - 140)**	**1.4**	**(0-25)**	**CFR60A EPA 15/16**
Methyl mercaptan	**110**	**(75 - 130)**			**CFR60A EPA 15/16**
	106	**(75 - 130)**	**4.1**	**(0-25)**	**CFR60A EPA 15/16**
Carbon disulfide	**100**	**(70 - 120)**			**CFR60A EPA 15/16**
	99	**(70 - 120)**	**1.7**	**(0-25)**	**CFR60A EPA 15/16**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4F030170 **Work Order #...:** GHQKJ1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F070000-297 GHQKJ1AD-LCSD
Prep Date.....: 06/03/04 **Analysis Date..:** 06/03/04
Prep Batch #...: 4159297 **Analysis Time..:** 07:53
Dilution Factor: 1 **Instrument ID..:** GC4
Analyst ID.....: 358011

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Hydrogen sulfide	**0.940**	**1.04**	**ppm(v/v)**	**111**		**CFR60A EPA 15/16**
	0.940	**1.04**	**ppm(v/v)**	**110**	**0.19**	**CFR60A EPA 15/16**
Carbonyl sulfide	**1.10**	**1.21**	**ppm(v/v)**	**110**		**CFR60A EPA 15/16**
	1.10	**1.23**	**ppm(v/v)**	**112**	**1.4**	**CFR60A EPA 15/16**
Methyl mercaptan	**1.00**	**1.10**	**ppm(v/v)**	**110**		**CFR60A EPA 15/16**
	1.00	**1.06**	**ppm(v/v)**	**106**	**4.1**	**CFR60A EPA 15/16**
Carbon disulfide	**1.13**	**1.13**	**ppm(v/v)**	**100**		**CFR60A EPA 15/16**
	1.13	**1.11**	**ppm(v/v)**	**99**	**1.7**	**CFR60A EPA 15/16**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4F030170 **Work Order #...:** GHRKA1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F040000-504 GHRKA1AD-LCSD
Prep Date.....: 06/04/04 **Analysis Date..:** 06/04/04
Prep Batch #...: 4156504 **Analysis Time..:** 12:31
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Non-Methane Hydrocar	**103**	**(80 - 120)**			**CFR60A EPA 25C**
	103	**(80 - 120)**	**0.010**	**(0-20)**	**CFR60A EPA 25C**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4F030170 **Work Order #...:** GHRKA1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F040000-504 GHRKA1AD-LCSD
Prep Date.....: 06/04/04 **Analysis Date..:** 06/04/04
Prep Batch #...: 4156504 **Analysis Time..:** 12:31
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Non-Methane Hydrocar	**3000**	**3080**	**ppm-c**	**103**		**CFR60A EPA 25C**
	3000	**3080**	**ppm-c**	**103**	**0.010**	**CFR60A EPA 25C**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4F030170 **Work Order #...:** GH0G31AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F090000-582 GH0G31AD-LCSD
Prep Date.....: 06/08/04 **Analysis Date..:** 06/08/04
Prep Batch #...: 4161582 **Analysis Time..:** 12:20
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Non-Methane Hydrocar	**103**	**(80 - 120)**			**CFR60A EPA 25C**
	103	**(80 - 120)**	**0.0**	**(0-20)**	**CFR60A EPA 25C**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4F030170 **Work Order #...:** GH0G31AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F090000-582 GH0G31AD-LCSD
Prep Date.....: 06/08/04 **Analysis Date..:** 06/08/04
Prep Batch #...: 4161582 **Analysis Time..:** 12:20
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Non-Methane Hydrocar	**3000**	**3080**	**ppm-c**	**103**		**CFR60A EPA 25C**
	3000	**3080**	**ppm-c**	**103**	**0.0**	**CFR60A EPA 25C**

NOTE(S):

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

Bold print denotes control parameters

SEVERN TRENT STL

STL Los Angeles
1721 South Grand Avenue
Santa Ana, CA 92705

Tel: 714 258 8610 Fax: 714 258 0921
www.stl-inc.com

June 21, 2004

STL LOT NUMBER: **E4F090145**
PO/CONTRACT: 01203520.00

Raymond Huff
SCS Engineers
3711 Long Beach Boulevard
Ninth Floor
Long Beach, CA 90807-3315

Dear Mr. Huff,

This report contains the analytical results for the six samples received under chain of custody by STL Los Angeles on June 8, 2004. These samples are associated with your Mission Bay LF project.

STL Los Angeles certifies that the test results provided in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of the report. NELAP Certification Number for STL Los Angeles is E87652.

Any matrix related anomaly is footnoted within the report. Historical control limits for the LCS are used to define the estimate of uncertainty for a method. All applicable quality control procedures met method-specified acceptance criteria except as noted on the following page.

Preliminary results were sent via facsimile on June 16, 2004.

This report shall not be reproduced except in full, without the written approval of the laboratory.

This report contains 000058 pages.

CASE NARRATIVE

1) For EPA TO-15 analysis, the continuing calibration standard for Chlorodifluoromethane was not analyzed. The standard has expired and a replacement has been unavailable. The results for this analyte were reported as estimated. This was brought to Ms. Gabrielle Fourie's attention on June 15, 2004.

2) EPA Method TO-15 describes the use of SUMMA canisters for sampling and analysis. Use of Tedlar sample bags constitutes a modification to the method.

3) ASTM D1946 was not requested on the chain of custody but it is part of the AP-42 LFG constituents. The laboratory added this for analysis.

If you have any questions, please feel free to call me at (714) 258-8610.

Sincerely,

Marisol Tabirara

Marisol Tabirara
Project Manager

cc: Project File

SEVERN TRENT STL

Analytical Report

ANALYTICAL REPORT

Mission Bay LF

Lot #: E4F090145

Raymond Huff

SCS Engineers

SEVERN TRENT LABORATORIES, INC.

Marisol Tabirara
Project Manager

June 16, 2004

Chain of Custody Record

SEVERN TRENT **STL**

Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: SCS Engineers	Project Manager: Ray Huff	Date: 6/8/04	Chain of Custody Number: 128079
Address: 3711 Long Beach Blvd, 9th Floor	Telephone Number (Area Code)/Fax Number: 562-426-9544 / 562-427-0805	Lab Number: E4F090145	Page 1 of 1
City: Long Beach; State: CA; Zip Code: 90807	Site Contact: G. Fourie	Lab Contact:	
Project Name and Location (State): Mission Bay Landfill (Integrated LF Surface Sampling)	Carrier/Waybill Number:		
Contract/Purchase Order/Quote No.:			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): TO-15	EPA 15/16	EPA 25C	Special Instructions/ Conditions of Receipt
Grid ~~A1/B1/B~~ A1, B1-B4	6/8/04	11:25	X										X	X	X	
Grid I1		12:20	X										X	X	X	
Grid J2 a		12:56	X													
Grid J2 b		13:24	X													
J2c (Composite)			X										X	X	X	
Grid L2		13:55	X										X	X	X	
Grid N1a		14:30	X													
Grid N1b		15:00	X													
N1C (composite)			X										X	X	X	
Grid N3a		15:40	X													
Grid N3b		16:08	X													
N3C (composite)			X										X	X	X	

AP-42 LFG CONSTITUENTS

000003

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other Std TAT

QC Requirements (Specify):

1. Relinquished By: Gabrielle Fourie	Date: 6/8/04	Time: 18:45	1. Received By:	Date: 06-08-04	Time: 1845
2. Relinquished By:	Date:	Time:	2. Received By:	Date:	Time:
3. Relinquished By:	Date:	Time:	3. Received By:	Date:	Time:

Comments:

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

EXECUTIVE SUMMARY - Detection Highlights

E4F090145

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GRID A1,B1-B4 06/08/04 11:25 001				
Carbon dioxide	0.032	0.010	%(v/v)	ASTM D1946
Oxygen	23	0.10	%(v/v)	ASTM D1946
Nitrogen	79	1.0	%(v/v)	ASTM D1946
Ethanol	4.3	2.0	ppb(v/v)	EPA-2 TO-15
2-Propanol	14	0.50	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	0.44	0.20	ppb(v/v)	EPA-2 TO-15
Chloromethane	0.40	0.40	ppb(v/v)	EPA-2 TO-15
Acetone	3.1	0.80	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	0.36	0.20	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	1.9	0.50	ppb(v/v)	EPA-2 TO-15
o-Xylene	0.38	0.20	ppb(v/v)	EPA-2 TO-15
GRID I1 06/08/04 12:20 002				
Carbon dioxide	0.032	0.010	%(v/v)	ASTM D1946
Oxygen	23	0.10	%(v/v)	ASTM D1946
Nitrogen	79	1.0	%(v/v)	ASTM D1946
Ethanol	4.0	2.0	ppb(v/v)	EPA-2 TO-15
2-Propanol	12	0.50	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	0.51	0.20	ppb(v/v)	EPA-2 TO-15
Chloromethane	0.54	0.40	ppb(v/v)	EPA-2 TO-15
Acetone	3.4	0.80	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	0.35	0.20	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	1.6	0.50	ppb(v/v)	EPA-2 TO-15
o-Xylene	0.54	0.20	ppb(v/v)	EPA-2 TO-15
J2c (COMPOSITE (J2a + J2b)) 06/08/04 13:24 003				
Carbon dioxide	0.032	0.010	%(v/v)	ASTM D1946
Oxygen	22	0.10	%(v/v)	ASTM D1946
Nitrogen	79	1.0	%(v/v)	ASTM D1946
Ethanol	24	2.0	ppb(v/v)	EPA-2 TO-15
Propane	1.1	1.0	ppb(v/v)	EPA-2 TO-15
2-Propanol	25	0.50	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	0.49	0.20	ppb(v/v)	EPA-2 TO-15
Chloromethane	0.52	0.40	ppb(v/v)	EPA-2 TO-15
Carbon disulfide	2.1	1.0	ppb(v/v)	EPA-2 TO-15
Acetone	5.3	0.80	ppb(v/v)	EPA-2 TO-15
Methylene chloride	0.54	0.20	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	0.33	0.20	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	1.4	0.50	ppb(v/v)	EPA-2 TO-15
o-Xylene	0.50	0.20	ppb(v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E4F090145

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GRID L2 06/08/04 13:55 004				
Carbon dioxide	0.032	0.010	%(v/v)	ASTM D1946
Oxygen	23	0.10	%(v/v)	ASTM D1946
Nitrogen	79	1.0	%(v/v)	ASTM D1946
Ethanol	5.3	2.0	ppb(v/v)	EPA-2 TO-15
2-Propanol	17	0.50	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	0.51	0.20	ppb(v/v)	EPA-2 TO-15
Chloromethane	0.50	0.40	ppb(v/v)	EPA-2 TO-15
Acetone	3.9	0.80	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	0.24	0.20	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	1.1	0.50	ppb(v/v)	EPA-2 TO-15
o-Xylene	0.41	0.20	ppb(v/v)	EPA-2 TO-15
N1c (COMPOSITE (N1a + N1b)) 06/08/04 15:00 005				
Carbon dioxide	0.032	0.010	%(v/v)	ASTM D1946
Oxygen	23	0.10	%(v/v)	ASTM D1946
Nitrogen	79	1.0	%(v/v)	ASTM D1946
Ethanol	33	2.0	ppb(v/v)	EPA-2 TO-15
2-Propanol	32	0.50	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	0.53	0.20	ppb(v/v)	EPA-2 TO-15
Chloromethane	0.94	0.40	ppb(v/v)	EPA-2 TO-15
Carbon disulfide	3.5	1.0	ppb(v/v)	EPA-2 TO-15
Acetone	7.6	0.80	ppb(v/v)	EPA-2 TO-15
Methylene chloride	0.72	0.20	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	0.32	0.20	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	1.3	0.50	ppb(v/v)	EPA-2 TO-15
o-Xylene	0.51	0.20	ppb(v/v)	EPA-2 TO-15
N3c (COMPOSITE (N3a + N3b)) 06/08/04 16:08 006				
Carbon dioxide	0.033	0.010	%(v/v)	ASTM D1946
Oxygen	22	0.10	%(v/v)	ASTM D1946
Nitrogen	79	1.0	%(v/v)	ASTM D1946
Methane	0.00028	0.00020	%(v/v)	ASTM D1946
Ethanol	37	2.0	ppb(v/v)	EPA-2 TO-15
2-Propanol	26	0.50	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	0.52	0.20	ppb(v/v)	EPA-2 TO-15
Chloromethane	0.61	0.40	ppb(v/v)	EPA-2 TO-15
Carbon disulfide	3.2	1.0	ppb(v/v)	EPA-2 TO-15
Acetone	7.3	0.80	ppb(v/v)	EPA-2 TO-15
Methylene chloride	0.77	0.20	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	0.28	0.20	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	1.2	0.50	ppb(v/v)	EPA-2 TO-15

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

E4F090145

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
N3c (COMPOSITE (N3a + N3b)) 06/08/04 16:08 006				
o-Xylene	0.43	0.20	ppb(v/v)	EPA-2 TO-15

ANALYTICAL METHODS SUMMARY

E4F090145

PARAMETER	ANALYTICAL METHOD
Fixed Gases	ASTM D1946
Non-Condensable	CFR60A EPA 25C
Sulfur Compounds	CFR60A EPA 15/16
Volatile Organics by TO15	EPA-2 TO-15

References:

ASTM Annual Book Of ASTM Standards.

CFR60A "Test Methods", 40 CFR, Part 60, Appendix A, July 1, 1993.

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

E4F090145

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GHWD1	001	GRID A1,B1-B4	06/08/04	11:25
GHWD4	002	GRID I1	06/08/04	12:20
GHWD5	003	J2c (COMPOSITE (J2a + J2b))	06/08/04	13:24
GHWD8	004	GRID L2	06/08/04	13:55
GHWEA	005	N1c (COMPOSITE (N1a + N1b))	06/08/04	15:00
GHWEE	006	N3c (COMPOSITE (N3a + N3b))	06/08/04	16:08

NOTE(S):

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

SCS ENGINEERS

Client Sample ID: GRID A1,B1-B4

GC/MS Volatiles

Lot-Sample #...: E4F090145-001 **Work Order #...:** GHWD11AE **Matrix.....:** AIR
Date Sampled...: 06/08/04 11:25 **Date Received..:** 06/08/04
Prep Date.....: 06/10/04 **Analysis Date..:** 06/10/04
Prep Batch #...: 4163430 **Analysis Time..:** 12:40
Dilution Factor: 1
Analyst ID.....: 341569 **Instrument ID..:** MSD
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acrylonitrile	ND	5.0	ppb(v/v)
n-Butane	ND	0.40	ppb(v/v)
Chlorodifluoromethane	ND	1.0	ppb(v/v)
Dichlorofluoromethane	ND	1.0	ppb(v/v)
Ethanol	**4.3**	**2.0**	**ppb(v/v)**
n-Hexane	ND	1.0	ppb(v/v)
Pentane	ND	1.0	ppb(v/v)
Propane	ND	1.0	ppb(v/v)
2-Propanol	**14**	**0.50**	**ppb(v/v)**
Dichlorodifluoromethane	**0.44**	**0.20**	**ppb(v/v)**
Chloromethane	**0.40**	**0.40**	**ppb(v/v)**
Vinyl chloride	ND	0.20	ppb(v/v)
Chloroethane	ND	0.40	ppb(v/v)
Trichlorofluoromethane	ND	0.40	ppb(v/v)
1,1-Dichloroethene	ND	0.20	ppb(v/v)
Carbon disulfide	ND	1.0	ppb(v/v)
Acetone	**3.1**	**0.80**	**ppb(v/v)**
Methylene chloride	ND	0.20	ppb(v/v)
trans-1,2-Dichloroethene	ND	0.20	ppb(v/v)
1,1-Dichloroethane	ND	0.20	ppb(v/v)
2-Butanone (MEK)	ND	1.0	ppb(v/v)
Chloroform	ND	0.20	ppb(v/v)
1,1,1-Trichloroethane	ND	0.20	ppb(v/v)
1,2-Dichloroethane	ND	0.20	ppb(v/v)
Trichloroethene	ND	0.20	ppb(v/v)
1,2-Dichloropropane	ND	0.20	ppb(v/v)
Bromodichloromethane	ND	0.20	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	0.40	ppb(v/v)
Tetrachloroethene	ND	0.20	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	0.20	ppb(v/v)
Carbon tetrachloride	ND	0.20	ppb(v/v)
Chlorobenzene	ND	0.20	ppb(v/v)
Ethylbenzene	**0.36**	**0.20**	**ppb(v/v)**
m-Xylene & p-Xylene	**1.9**	**0.50**	**ppb(v/v)**
o-Xylene	**0.38**	**0.20**	**ppb(v/v)**
1,1,2,2-Tetrachloroethane	ND	0.20	ppb(v/v)

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SCS ENGINEERS

Client Sample ID: GRID A1,B1-B4

GC/MS Volatiles

Lot-Sample #...: E4F090145-001 **Work Order #...:** GHWD11AE **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,3-Dichlorobenzene	ND	0.20	ppb(v/v)
1,4-Dichlorobenzene	ND	0.20	ppb(v/v)
1,2-Dichlorobenzene	ND	0.20	ppb(v/v)

SCS ENGINEERS

Client Sample ID: GRID A1,B1-B4

GC Volatiles

Lot-Sample #...:	E4F090145-001	**Work Order #...:**	GHWD11AF	**Matrix.....:**	AIR
Date Sampled...:	06/08/04 11:25	**Date Received..:**	06/08/04		
Prep Date.....:	06/11/04	**Analysis Date..:**	06/11/04		
Prep Batch #...:	4167195	**Analysis Time..:**	12:48		
Dilution Factor:	1				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**0.032**	**0.010**	**%(v/v)**
Oxygen	**23**	**0.10**	**%(v/v)**
Nitrogen	**79**	**1.0**	**%(v/v)**
Ethane	ND	0.00050	%(v/v)
Methane	ND	0.00020	%(v/v)
Carbon monoxide	ND	0.0010	%(v/v)

SCS ENGINEERS

Client Sample ID: GRID A1,B1-B4

GC Volatiles

Lot-Sample #...: E4F090145-001 **Work Order #...:** GHWD11AA **Matrix.....:** AIR
Date Sampled...: 06/08/04 11:25 **Date Received..:** 06/08/04
Prep Date.....: 06/08/04 **Analysis Date..:** 06/08/04
Prep Batch #...: 4166664 **Analysis Time..:** 19:14
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC4
Method.....: CFR60A EPA 15/16

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	ND	0.20	ppm(v/v)
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: GRID A1,B1-B4

GC Volatiles

Lot-Sample #...:	E4F090145-001	**Work Order #...:**	GHWD11AD	**Matrix.....:**	AIR
Date Sampled...:	06/08/04 11:25	**Date Received..:**	06/08/04		
Prep Date.....:	06/10/04	**Analysis Date..:**	06/10/04		
Prep Batch #...:	4167199	**Analysis Time..:**	23:13		
Dilution Factor:	1				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	ND	30	ppm-c

SCS ENGINEERS

Client Sample ID: GRID I1

GC/MS Volatiles

Lot-Sample #...: E4F090145-002 **Work Order #...:** GHWD41AE **Matrix.....:** AIR
Date Sampled...: 06/08/04 12:20 **Date Received..:** 06/08/04
Prep Date.....: 06/10/04 **Analysis Date..:** 06/10/04
Prep Batch #...: 4163430 **Analysis Time..:** 13:20
Dilution Factor: 1
Analyst ID.....: 341569 **Instrument ID..:** MSD
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acrylonitrile	ND	5.0	ppb(v/v)
n-Butane	ND	0.40	ppb(v/v)
Chlorodifluoromethane	ND	1.0	ppb(v/v)
Dichlorofluoromethane	ND	1.0	ppb(v/v)
Ethanol	**4.0**	**2.0**	**ppb(v/v)**
n-Hexane	ND	1.0	ppb(v/v)
Pentane	ND	1.0	ppb(v/v)
Propane	ND	1.0	ppb(v/v)
2-Propanol	**12**	**0.50**	**ppb(v/v)**
Dichlorodifluoromethane	**0.51**	**0.20**	**ppb(v/v)**
Chloromethane	**0.54**	**0.40**	**ppb(v/v)**
Vinyl chloride	ND	0.20	ppb(v/v)
Chloroethane	ND	0.40	ppb(v/v)
Trichlorofluoromethane	ND	0.40	ppb(v/v)
1,1-Dichloroethene	ND	0.20	ppb(v/v)
Carbon disulfide	ND	1.0	ppb(v/v)
Acetone	**3.4**	**0.80**	**ppb(v/v)**
Methylene chloride	ND	0.20	ppb(v/v)
trans-1,2-Dichloroethene	ND	0.20	ppb(v/v)
1,1-Dichloroethane	ND	0.20	ppb(v/v)
2-Butanone (MEK)	ND	1.0	ppb(v/v)
Chloroform	ND	0.20	ppb(v/v)
1,1,1-Trichloroethane	ND	0.20	ppb(v/v)
1,2-Dichloroethane	ND	0.20	ppb(v/v)
Trichloroethene	ND	0.20	ppb(v/v)
1,2-Dichloropropane	ND	0.20	ppb(v/v)
Bromodichloromethane	ND	0.20	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	0.40	ppb(v/v)
Tetrachloroethene	ND	0.20	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	0.20	ppb(v/v)
Carbon tetrachloride	ND	0.20	ppb(v/v)
Chlorobenzene	ND	0.20	ppb(v/v)
Ethylbenzene	**0.35**	**0.20**	**ppb(v/v)**
m-Xylene & p-Xylene	**1.6**	**0.50**	**ppb(v/v)**
o-Xylene	**0.54**	**0.20**	**ppb(v/v)**
1,1,2,2-Tetrachloroethane	ND	0.20	ppb(v/v)

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SCS ENGINEERS

Client Sample ID: GRID I1

GC/MS Volatiles

Lot-Sample #...: E4F090145-002 **Work Order #...:** GHWD41AE **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,3-Dichlorobenzene	ND	0.20	ppb(v/v)
1,4-Dichlorobenzene	ND	0.20	ppb(v/v)
1,2-Dichlorobenzene	ND	0.20	ppb(v/v)

SCS ENGINEERS

Client Sample ID: GRID I1

GC Volatiles

Lot-Sample #...:	E4F090145-002	**Work Order #...:**	GHWD41AF	**Matrix.....:**	AIR
Date Sampled...:	06/08/04 12:20	**Date Received..:**	06/08/04		
Prep Date.....:	06/11/04	**Analysis Date..:**	06/11/04		
Prep Batch #...:	4167195	**Analysis Time..:**	13:13		
Dilution Factor:	1				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**0.032**	**0.010**	**%(v/v)**
Oxygen	**23**	**0.10**	**%(v/v)**
Nitrogen	**79**	**1.0**	**%(v/v)**
Ethane	ND	0.00050	%(v/v)
Methane	ND	0.00020	%(v/v)
Carbon monoxide	ND	0.0010	%(v/v)

SCS ENGINEERS

Client Sample ID: GRID I1

GC Volatiles

Lot-Sample #...: E4F090145-002 **Work Order #...:** GHWD41AA **Matrix.....:** AIR
Date Sampled...: 06/08/04 12:20 **Date Received..:** 06/08/04
Prep Date.....: 06/08/04 **Analysis Date..:** 06/08/04
Prep Batch #...: 4166664 **Analysis Time..:** 19:34
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC4
Method.....: CFR60A EPA 15/16

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	ND	0.20	ppm(v/v)
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: GRID I1

GC Volatiles

Lot-Sample #...:	E4F090145-002	**Work Order #...:**	GHWD41AD	**Matrix.....:**	AIR
Date Sampled...:	06/08/04 12:20	**Date Received..:**	06/08/04		
Prep Date.....:	06/11/04	**Analysis Date..:**	06/11/04		
Prep Batch #...:	4167199	**Analysis Time..:**	00:26		
Dilution Factor:	1				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	ND	30	ppm-c

SCS ENGINEERS

Client Sample ID: J2c (COMPOSITE (J2a + J2b))

GC/MS Volatiles

Lot-Sample #...: E4F090145-003 **Work Order #...:** GHWD51AE **Matrix.....:** AIR
Date Sampled...: 06/08/04 13:24 **Date Received..:** 06/08/04
Prep Date.....: 06/10/04 **Analysis Date..:** 06/10/04
Prep Batch #...: 4163430 **Analysis Time..:** 14:01
Dilution Factor: 1
Analyst ID.....: 341569 **Instrument ID..:** MSD
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acrylonitrile	ND	5.0	ppb(v/v)
n-Butane	ND	0.40	ppb(v/v)
Chlorodifluoromethane	ND	1.0	ppb(v/v)
Dichlorofluoromethane	ND	1.0	ppb(v/v)
Ethanol	**24**	**2.0**	**ppb(v/v)**
n-Hexane	ND	1.0	ppb(v/v)
Pentane	ND	1.0	ppb(v/v)
Propane	**1.1**	**1.0**	**ppb(v/v)**
2-Propanol	**25**	**0.50**	**ppb(v/v)**
Dichlorodifluoromethane	**0.49**	**0.20**	**ppb(v/v)**
Chloromethane	**0.52**	**0.40**	**ppb(v/v)**
Vinyl chloride	ND	0.20	ppb(v/v)
Chloroethane	ND	0.40	ppb(v/v)
Trichlorofluoromethane	ND	0.40	ppb(v/v)
1,1-Dichloroethene	ND	0.20	ppb(v/v)
Carbon disulfide	**2.1**	**1.0**	**ppb(v/v)**
Acetone	**5.3**	**0.80**	**ppb(v/v)**
Methylene chloride	**0.54**	**0.20**	**ppb(v/v)**
trans-1,2-Dichloroethene	ND	0.20	ppb(v/v)
1,1-Dichloroethane	ND	0.20	ppb(v/v)
2-Butanone (MEK)	ND	1.0	ppb(v/v)
Chloroform	ND	0.20	ppb(v/v)
1,1,1-Trichloroethane	ND	0.20	ppb(v/v)
1,2-Dichloroethane	ND	0.20	ppb(v/v)
Trichloroethene	ND	0.20	ppb(v/v)
1,2-Dichloropropane	ND	0.20	ppb(v/v)
Bromodichloromethane	ND	0.20	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	0.40	ppb(v/v)
Tetrachloroethene	ND	0.20	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	0.20	ppb(v/v)
Carbon tetrachloride	ND	0.20	ppb(v/v)
Chlorobenzene	ND	0.20	ppb(v/v)
Ethylbenzene	**0.33**	**0.20**	**ppb(v/v)**
m-Xylene & p-Xylene	**1.4**	**0.50**	**ppb(v/v)**
o-Xylene	**0.50**	**0.20**	**ppb(v/v)**
1,1,2,2-Tetrachloroethane	ND	0.20	ppb(v/v)

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SCS ENGINEERS

Client Sample ID: J2c (COMPOSITE (J2a + J2b))

GC/MS Volatiles

Lot-Sample #...: E4F090145-003 **Work Order #...:** GHWD51AE **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,3-Dichlorobenzene	ND	0.20	ppb(v/v)
1,4-Dichlorobenzene	ND	0.20	ppb(v/v)
1,2-Dichlorobenzene	ND	0.20	ppb(v/v)

SCS ENGINEERS

Client Sample ID: J2c (COMPOSITE (J2a + J2b))

GC Volatiles

Lot-Sample #...:	E4F090145-003	**Work Order #...:**	GHWD51AF	**Matrix.....:**	AIR
Date Sampled...:	06/08/04 13:24	**Date Received..:**	06/08/04		
Prep Date.....:	06/11/04	**Analysis Date..:**	06/11/04		
Prep Batch #...:	4162508	**Analysis Time..:**	02:29		
Dilution Factor:	1				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**0.032**	**0.010**	**%(v/v)**
Oxygen	**22**	**0.10**	**%(v/v)**
Nitrogen	**79**	**1.0**	**%(v/v)**
Ethane	ND	0.00050	%(v/v)
Methane	ND	0.00020	%(v/v)
Carbon monoxide	ND	0.0010	%(v/v)

SCS ENGINEERS

Client Sample ID: J2c (COMPOSITE (J2a + J2b))

GC Volatiles

Lot-Sample #...: E4F090145-003 **Work Order #...:** GHWD51AA **Matrix.....:** AIR
Date Sampled...: 06/08/04 13:24 **Date Received..:** 06/08/04
Prep Date.....: 06/08/04 **Analysis Date..:** 06/08/04
Prep Batch #...: 4166664 **Analysis Time..:** 20:16
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC4
Method.....: CFR60A EPA 15/16

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	ND	0.20	ppm(v/v)
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: J2c (COMPOSITE (J2a + J2b))

GC Volatiles

Lot-Sample #...:	E4F090145-003	**Work Order #...:**	GHWD51AD	**Matrix.....:**	AIR
Date Sampled...:	06/08/04 13:24	**Date Received..:**	06/08/04		
Prep Date.....:	06/11/04	**Analysis Date..:**	06/11/04		
Prep Batch #...:	4167199	**Analysis Time..:**	01:40		
Dilution Factor:	1				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	ND	30	ppm-c

SCS ENGINEERS

Client Sample ID: GRID L2

GC/MS Volatiles

Lot-Sample #...: E4F090145-004 **Work Order #...:** GHWD81AE **Matrix.....:** AIR
Date Sampled...: 06/08/04 13:55 **Date Received..:** 06/08/04
Prep Date.....: 06/10/04 **Analysis Date..:** 06/10/04
Prep Batch #...: 4163430 **Analysis Time..:** 14:42
Dilution Factor: 1
Analyst ID.....: 341569 **Instrument ID..:** MSD
Method.....: EPA-2 TO-15

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acrylonitrile	ND	5.0	ppb(v/v)
n-Butane	ND	0.40	ppb(v/v)
Chlorodifluoromethane	ND	1.0	ppb(v/v)
Dichlorofluoromethane	ND	1.0	ppb(v/v)
Ethanol	**5.3**	**2.0**	**ppb(v/v)**
n-Hexane	ND	1.0	ppb(v/v)
Pentane	ND	1.0	ppb(v/v)
Propane	ND	1.0	ppb(v/v)
2-Propanol	**17**	**0.50**	**ppb(v/v)**
Dichlorodifluoromethane	**0.51**	**0.20**	**ppb(v/v)**
Chloromethane	**0.50**	**0.40**	**ppb(v/v)**
Vinyl chloride	ND	0.20	ppb(v/v)
Chloroethane	ND	0.40	ppb(v/v)
Trichlorofluoromethane	ND	0.40	ppb(v/v)
1,1-Dichloroethene	ND	0.20	ppb(v/v)
Carbon disulfide	ND	1.0	ppb(v/v)
Acetone	**3.9**	**0.80**	**ppb(v/v)**
Methylene chloride	ND	0.20	ppb(v/v)
trans-1,2-Dichloroethene	ND	0.20	ppb(v/v)
1,1-Dichloroethane	ND	0.20	ppb(v/v)
2-Butanone (MEK)	ND	1.0	ppb(v/v)
Chloroform	ND	0.20	ppb(v/v)
1,1,1-Trichloroethane	ND	0.20	ppb(v/v)
1,2-Dichloroethane	ND	0.20	ppb(v/v)
Trichloroethene	ND	0.20	ppb(v/v)
1,2-Dichloropropane	ND	0.20	ppb(v/v)
Bromodichloromethane	ND	0.20	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	0.40	ppb(v/v)
Tetrachloroethene	ND	0.20	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	0.20	ppb(v/v)
Carbon tetrachloride	ND	0.20	ppb(v/v)
Chlorobenzene	ND	0.20	ppb(v/v)
Ethylbenzene	**0.24**	**0.20**	**ppb(v/v)**
m-Xylene & p-Xylene	**1.1**	**0.50**	**ppb(v/v)**
o-Xylene	**0.41**	**0.20**	**ppb(v/v)**
1,1,2,2-Tetrachloroethane	ND	0.20	ppb(v/v)

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SCS ENGINEERS

Client Sample ID: GRID L2

GC/MS Volatiles

Lot-Sample #...: E4F090145-004 **Work Order #...:** GHWD81AE **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,3-Dichlorobenzene	ND	0.20	ppb(v/v)
1,4-Dichlorobenzene	ND	0.20	ppb(v/v)
1,2-Dichlorobenzene	ND	0.20	ppb(v/v)

SCS ENGINEERS

Client Sample ID: GRID L2

GC Volatiles

Lot-Sample #...: E4F090145-004 **Work Order #...:** GHWD81AF **Matrix.....:** AIR
Date Sampled...: 06/08/04 13:55 **Date Received..:** 06/08/04
Prep Date.....: 06/11/04 **Analysis Date..:** 06/11/04
Prep Batch #...: 4167195 **Analysis Time..:** 14:03
Dilution Factor: 1
Analyst ID.....: 101605 **Instrument ID..:** GC3
Method.....: ASTM D1946

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**0.032**	**0.010**	**%(v/v)**
Oxygen	**23**	**0.10**	**%(v/v)**
Nitrogen	**79**	**1.0**	**%(v/v)**
Ethane	ND	0.00050	%(v/v)
Methane	ND	0.00020	%(v/v)
Carbon monoxide	ND	0.0010	%(v/v)

SCS ENGINEERS

Client Sample ID: GRID L2

GC Volatiles

Lot-Sample #...: E4F090145-004 **Work Order #...:** GHWD81AA **Matrix.....:** AIR
Date Sampled...: 06/08/04 13:55 **Date Received..:** 06/08/04
Prep Date.....: 06/08/04 **Analysis Date..:** 06/08/04
Prep Batch #...: 4166664 **Analysis Time..:** 19:55
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC4
Method.....: CFR60A EPA 15/16

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	ND	0.20	ppm(v/v)
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: GRID L2

GC Volatiles

Lot-Sample #...: E4F090145-004 **Work Order #...:** GHWD81AD **Matrix.....:** AIR
Date Sampled...: 06/08/04 13:55 **Date Received..:** 06/08/04
Prep Date.....: 06/11/04 **Analysis Date..:** 06/11/04
Prep Batch #...: 4167199 **Analysis Time..:** 02:53
Dilution Factor: 1
Analyst ID.....: 101605 **Instrument ID..:** GC3
Method.....: CFR60A EPA 25C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	ND	30	ppm-c

SCS ENGINEERS

Client Sample ID: N1c (COMPOSITE (N1a + N1b))

GC/MS Volatiles

Lot-Sample #...:	E4F090145-005	**Work Order #...:**	GHWEA1AE	**Matrix.....:**	AIR
Date Sampled...:	06/08/04 15:00	**Date Received..:**	06/08/04		
Prep Date.....:	06/10/04	**Analysis Date..:**	06/10/04		
Prep Batch #...:	4163430	**Analysis Time..:**	15:23		
Dilution Factor:	1				
Analyst ID.....:	341569	**Instrument ID..:**	MSD		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acrylonitrile	ND	5.0	ppb(v/v)
n-Butane	ND	0.40	ppb(v/v)
Chlorodifluoromethane	ND	1.0	ppb(v/v)
Dichlorofluoromethane	ND	1.0	ppb(v/v)
Ethanol	**33**	**2.0**	**ppb(v/v)**
n-Hexane	ND	1.0	ppb(v/v)
Pentane	ND	1.0	ppb(v/v)
Propane	ND	1.0	ppb(v/v)
2-Propanol	**32**	**0.50**	**ppb(v/v)**
Dichlorodifluoromethane	**0.53**	**0.20**	**ppb(v/v)**
Chloromethane	**0.94**	**0.40**	**ppb(v/v)**
Vinyl chloride	ND	0.20	ppb(v/v)
Chloroethane	ND	0.40	ppb(v/v)
Trichlorofluoromethane	ND	0.40	ppb(v/v)
1,1-Dichloroethene	ND	0.20	ppb(v/v)
Carbon disulfide	**3.5**	**1.0**	**ppb(v/v)**
Acetone	**7.6**	**0.80**	**ppb(v/v)**
Methylene chloride	**0.72**	**0.20**	**ppb(v/v)**
trans-1,2-Dichloroethene	ND	0.20	ppb(v/v)
1,1-Dichloroethane	ND	0.20	ppb(v/v)
2-Butanone (MEK)	ND	1.0	ppb(v/v)
Chloroform	ND	0.20	ppb(v/v)
1,1,1-Trichloroethane	ND	0.20	ppb(v/v)
1,2-Dichloroethane	ND	0.20	ppb(v/v)
Trichloroethene	ND	0.20	ppb(v/v)
1,2-Dichloropropane	ND	0.20	ppb(v/v)
Bromodichloromethane	ND	0.20	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	0.40	ppb(v/v)
Tetrachloroethene	ND	0.20	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	0.20	ppb(v/v)
Carbon tetrachloride	ND	0.20	ppb(v/v)
Chlorobenzene	ND	0.20	ppb(v/v)
Ethylbenzene	**0.32**	**0.20**	**ppb(v/v)**
m-Xylene & p-Xylene	**1.3**	**0.50**	**ppb(v/v)**
o-Xylene	**0.51**	**0.20**	**ppb(v/v)**
1,1,2,2-Tetrachloroethane	ND	0.20	ppb(v/v)

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SCS ENGINEERS

Client Sample ID: N1c (COMPOSITE (N1a + N1b))

GC/MS Volatiles

Lot-Sample #...: E4F090145-005 **Work Order #...:** GHWEA1AE **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,3-Dichlorobenzene	ND	0.20	ppb(v/v)
1,4-Dichlorobenzene	ND	0.20	ppb(v/v)
1,2-Dichlorobenzene	ND	0.20	ppb(v/v)

SCS ENGINEERS

Client Sample ID: N1c (COMPOSITE (N1a + N1b))

GC Volatiles

Lot-Sample #...:	E4F090145-005	**Work Order #...:**	GHWEA1AF	**Matrix.....:**	AIR
Date Sampled...:	06/08/04 15:00	**Date Received..:**	06/08/04		
Prep Date.....:	06/11/04	**Analysis Date..:**	06/11/04		
Prep Batch #...:	4167195	**Analysis Time..:**	14:28		
Dilution Factor:	1				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**0.032**	**0.010**	**%(v/v)**
Oxygen	**23**	**0.10**	**%(v/v)**
Nitrogen	**79**	**1.0**	**%(v/v)**
Ethane	ND	0.00050	%(v/v)
Methane	ND	0.00020	%(v/v)
Carbon monoxide	ND	0.0010	%(v/v)

SCS ENGINEERS

Client Sample ID: N1c (COMPOSITE (N1a + N1b))

GC Volatiles

Lot-Sample #...: E4F090145-005 **Work Order #...:** GHWEA1AA **Matrix.....:** AIR
Date Sampled...: 06/08/04 15:00 **Date Received..:** 06/08/04
Prep Date.....: 06/08/04 **Analysis Date..:** 06/08/04
Prep Batch #...: 4166664 **Analysis Time..:** 20:37
Dilution Factor: 1
Analyst ID.....: 358011 **Instrument ID..:** GC4
Method.....: CFR60A EPA 15/16

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	ND	0.20	ppm(v/v)
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: N1c (COMPOSITE (N1a + N1b))

GC Volatiles

Lot-Sample #...: E4F090145-005 **Work Order #...:** GHWEA1AD **Matrix.....:** AIR
Date Sampled...: 06/08/04 15:00 **Date Received..:** 06/08/04
Prep Date.....: 06/11/04 **Analysis Date..:** 06/11/04
Prep Batch #...: 4167199 **Analysis Time..:** 04:07
Dilution Factor: 1
Analyst ID.....: 101605 **Instrument ID..:** GC3
Method.....: CFR60A EPA 25C

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	ND	30	ppm-c

SCS ENGINEERS

Client Sample ID: N3c (COMPOSITE (N3a + N3b))

GC/MS Volatiles

Lot-Sample #...:	E4F090145-006	**Work Order #...:**	GHWEE1AE	**Matrix.....:**	AIR
Date Sampled...:	06/08/04 16:08	**Date Received..:**	06/08/04		
Prep Date.....:	06/10/04	**Analysis Date..:**	06/10/04		
Prep Batch #...:	4163430	**Analysis Time..:**	18:14		
Dilution Factor:	1				
Analyst ID.....:	341569	**Instrument ID..:**	MSD		
		Method.....:	EPA-2 TO-15		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Acrylonitrile	ND	5.0	ppb(v/v)
n-Butane	ND	0.40	ppb(v/v)
Chlorodifluoromethane	ND	1.0	ppb(v/v)
Dichlorofluoromethane	ND	1.0	ppb(v/v)
Ethanol	**37**	**2.0**	**ppb(v/v)**
n-Hexane	ND	1.0	ppb(v/v)
Pentane	ND	1.0	ppb(v/v)
Propane	ND	1.0	ppb(v/v)
2-Propanol	**26**	**0.50**	**ppb(v/v)**
Dichlorodifluoromethane	**0.52**	**0.20**	**ppb(v/v)**
Chloromethane	**0.61**	**0.40**	**ppb(v/v)**
Vinyl chloride	ND	0.20	ppb(v/v)
Chloroethane	ND	0.40	ppb(v/v)
Trichlorofluoromethane	ND	0.40	ppb(v/v)
1,1-Dichloroethene	ND	0.20	ppb(v/v)
Carbon disulfide	**3.2**	**1.0**	**ppb(v/v)**
Acetone	**7.3**	**0.80**	**ppb(v/v)**
Methylene chloride	**0.77**	**0.20**	**ppb(v/v)**
trans-1,2-Dichloroethene	ND	0.20	ppb(v/v)
1,1-Dichloroethane	ND	0.20	ppb(v/v)
2-Butanone (MEK)	ND	1.0	ppb(v/v)
Chloroform	ND	0.20	ppb(v/v)
1,1,1-Trichloroethane	ND	0.20	ppb(v/v)
1,2-Dichloroethane	ND	0.20	ppb(v/v)
Trichloroethene	ND	0.20	ppb(v/v)
1,2-Dichloropropane	ND	0.20	ppb(v/v)
Bromodichloromethane	ND	0.20	ppb(v/v)
4-Methyl-2-pentanone (MIBK)	ND	0.40	ppb(v/v)
Tetrachloroethene	ND	0.20	ppb(v/v)
1,2-Dibromoethane (EDB)	ND	0.20	ppb(v/v)
Carbon tetrachloride	ND	0.20	ppb(v/v)
Chlorobenzene	ND	0.20	ppb(v/v)
Ethylbenzene	**0.28**	**0.20**	**ppb(v/v)**
m-Xylene & p-Xylene	**1.2**	**0.50**	**ppb(v/v)**
o-Xylene	**0.43**	**0.20**	**ppb(v/v)**
1,1,2,2-Tetrachloroethane	ND	0.20	ppb(v/v)

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SCS ENGINEERS

Client Sample ID: N3c (COMPOSITE (N3a + N3b))

GC/MS Volatiles

Lot-Sample #...: E4F090145-006 **Work Order #...:** GHWEE1AE **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS
1,3-Dichlorobenzene	ND	0.20	ppb(v/v)
1,4-Dichlorobenzene	ND	0.20	ppb(v/v)
1,2-Dichlorobenzene	ND	0.20	ppb(v/v)

SCS ENGINEERS

Client Sample ID: N3c (COMPOSITE (N3a + N3b))

GC Volatiles

Lot-Sample #...:	E4F090145-006	**Work Order #...:**	GHWEE1AF	**Matrix.....:**	AIR
Date Sampled...:	06/08/04 16:08	**Date Received..:**	06/08/04		
Prep Date.....:	06/11/04	**Analysis Date..:**	06/11/04		
Prep Batch #...:	4162508	**Analysis Time..:**	06:09		
Dilution Factor:	1				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	ASTM D1946		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Carbon dioxide	**0.033**	**0.010**	**%(v/v)**
Oxygen	**22**	**0.10**	**%(v/v)**
Nitrogen	**79**	**1.0**	**%(v/v)**
Ethane	ND	0.00050	%(v/v)
Methane	**0.00028**	**0.00020**	**%(v/v)**
Carbon monoxide	ND	0.0010	%(v/v)

SCS ENGINEERS

Client Sample ID: N3c (COMPOSITE (N3a + N3b))

GC Volatiles

Lot-Sample #...:	E4F090145-006	**Work Order #...:**	GHWEE1AA	**Matrix.....:**	AIR
Date Sampled...:	06/08/04 16:08	**Date Received..:**	06/08/04		
Prep Date.....:	06/08/04	**Analysis Date..:**	06/08/04		
Prep Batch #...:	4166664	**Analysis Time..:**	20:57		
Dilution Factor:	1				
Analyst ID.....:	358011	**Instrument ID..:**	GC4		
		Method.....:	CFR60A EPA 15/16		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Hydrogen sulfide	ND	0.20	ppm(v/v)
Carbonyl sulfide	ND	0.20	ppm(v/v)
Methyl mercaptan	ND	0.20	ppm(v/v)
Ethyl mercaptan	ND	0.20	ppm(v/v)
Dimethyl sulfide	ND	0.20	ppm(v/v)

SCS ENGINEERS

Client Sample ID: N3c (COMPOSITE (N3a + N3b))

GC Volatiles

Lot-Sample #...:	E4F090145-006	**Work Order #...:**	GHWEE1AD	**Matrix.....:**	AIR
Date Sampled...:	06/08/04 16:08	**Date Received..:**	06/08/04		
Prep Date.....:	06/11/04	**Analysis Date..:**	06/11/04		
Prep Batch #...:	4167199	**Analysis Time..:**	05:20		
Dilution Factor:	1				
Analyst ID.....:	101605	**Instrument ID..:**	GC3		
		Method.....:	CFR60A EPA 25C		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Total Non-Methane Hydrocarbons as Methane	ND	30	ppm-c

SEVERN TRENT STL

QA/QC

QC DATA ASSOCIATION SUMMARY

E4F090145

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	AIR	EPA-2 TO-15		4163430	
	AIR	CFR60A EPA 15/16		4166664	
	AIR	ASTM D1946		4167195	
	AIR	CFR60A EPA 25C		4167199	
002	AIR	EPA-2 TO-15		4163430	
	AIR	CFR60A EPA 15/16		4166664	
	AIR	ASTM D1946		4167195	
	AIR	CFR60A EPA 25C		4167199	
003	AIR	EPA-2 TO-15		4163430	
	AIR	CFR60A EPA 15/16		4166664	
	AIR	ASTM D1946		4162508	
	AIR	CFR60A EPA 25C		4167199	
004	AIR	EPA-2 TO-15		4163430	
	AIR	CFR60A EPA 15/16		4166664	
	AIR	ASTM D1946		4167195	
	AIR	CFR60A EPA 25C		4167199	
005	AIR	EPA-2 TO-15		4163430	
	AIR	CFR60A EPA 15/16		4166664	
	AIR	ASTM D1946		4167195	
	AIR	CFR60A EPA 25C		4167199	
006	AIR	EPA-2 TO-15		4163430	
	AIR	CFR60A EPA 15/16		4166664	
	AIR	ASTM D1946		4162508	
	AIR	CFR60A EPA 25C		4167199	

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4F090145
MB Lot-Sample #: M4F110000-430

Analysis Date..: 06/10/04
Dilution Factor: 1

Work Order #...: GH51G1AA

Prep Date.....: 06/10/04
Prep Batch #...: 4163430

Analyst ID.....: 341569

Matrix.....: AIR

Analysis Time..: 11:18
Instrument ID..: MSD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acrylonitrile	ND	5.0	ppb(v/v)	EPA-2 TO-15
Dichlorofluoromethane	ND	1.0	ppb(v/v)	EPA-2 TO-15
Ethanol	ND	2.0	ppb(v/v)	EPA-2 TO-15
n-Hexane	ND	1.0	ppb(v/v)	EPA-2 TO-15
2-Propanol	ND	0.50	ppb(v/v)	EPA-2 TO-15
Pentane	ND	1.0	ppb(v/v)	EPA-2 TO-15
Chlorodifluoromethane	ND	1.0	ppb(v/v)	EPA-2 TO-15
n-Butane	ND	0.40	ppb(v/v)	EPA-2 TO-15
Propane	ND	1.0	ppb(v/v)	EPA-2 TO-15
Dichlorodifluoromethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
Chloromethane	ND	0.40	ppb(v/v)	EPA-2 TO-15
Vinyl chloride	ND	0.20	ppb(v/v)	EPA-2 TO-15
Chloroethane	ND	0.40	ppb(v/v)	EPA-2 TO-15
Trichlorofluoromethane	ND	0.40	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethene	ND	0.20	ppb(v/v)	EPA-2 TO-15
Carbon disulfide	ND	1.0	ppb(v/v)	EPA-2 TO-15
Acetone	ND	0.80	ppb(v/v)	EPA-2 TO-15
Methylene chloride	ND	0.20	ppb(v/v)	EPA-2 TO-15
trans-1,2-Dichloroethene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,1-Dichloroethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
2-Butanone (MEK)	ND	1.0	ppb(v/v)	EPA-2 TO-15
Chloroform	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,1,1-Trichloroethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,2-Dichloroethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
Trichloroethene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,2-Dichloropropane	ND	0.20	ppb(v/v)	EPA-2 TO-15
Bromodichloromethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
4-Methyl-2-pentanone (MIBK)	ND	0.40	ppb(v/v)	EPA-2 TO-15
Tetrachloroethene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,2-Dibromoethane (EDB)	ND	0.20	ppb(v/v)	EPA-2 TO-15
Carbon tetrachloride	ND	0.20	ppb(v/v)	EPA-2 TO-15
Chlorobenzene	ND	0.20	ppb(v/v)	EPA-2 TO-15
Ethylbenzene	ND	0.20	ppb(v/v)	EPA-2 TO-15
m-Xylene & p-Xylene	ND	0.50	ppb(v/v)	EPA-2 TO-15
o-Xylene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,3-Dichlorobenzene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,4-Dichlorobenzene	ND	0.20	ppb(v/v)	EPA-2 TO-15
1,2-Dichlorobenzene	ND	0.20	ppb(v/v)	EPA-2 TO-15

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: E4F090145 **Work Order #...:** GH51G1AA **Matrix.....:** AIR

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4F090145
MB Lot-Sample #: M4F100000-508

Analysis Date..: 06/10/04
Dilution Factor: 1

Work Order #...: GH3ET1AA

Prep Date.....: 06/10/04
Prep Batch #...: 4162508

Analyst ID.....: 101605

Matrix.....: AIR

Analysis Time..: 12:10
Instrument ID..: GC3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon dioxide	ND	0.010	%(v/v)	ASTM D1946
Oxygen	ND	0.10	%(v/v)	ASTM D1946
Nitrogen	ND	1.0	%(v/v)	ASTM D1946
Ethane	ND	0.00050	%(v/v)	ASTM D1946
Methane	ND	0.00020	%(v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	%(v/v)	ASTM D1946

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4F090145
MB Lot-Sample #: M4F150000-195

Analysis Date..: 06/11/04
Dilution Factor: 1

Work Order #...: GJARF1AA

Prep Date.....: 06/11/04
Prep Batch #...: 4167195

Analyst ID.....: 101605

Matrix.....: AIR

Analysis Time..: 12:24
Instrument ID..: GC3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Carbon dioxide	ND	0.010	%(v/v)	ASTM D1946
Oxygen	ND	0.10	%(v/v)	ASTM D1946
Nitrogen	ND	1.0	%(v/v)	ASTM D1946
Ethane	ND	0.00050	%(v/v)	ASTM D1946
Methane	ND	0.00020	%(v/v)	ASTM D1946
Carbon monoxide	ND	0.0010	%(v/v)	ASTM D1946

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4F090145 **Work Order #...:** GH9P11AA **Matrix.....:** AIR
MB Lot-Sample #: M4F140000-664

Prep Date.....: 06/08/04 **Analysis Time..:** 18:53
Analysis Date..: 06/08/04 **Prep Batch #...:** 4166664 **Instrument ID..:** GC4
Dilution Factor: 1

Analyst ID.....: 358011

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hydrogen sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Carbonyl sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Methyl mercaptan	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Ethyl mercaptan	ND	0.20	ppm(v/v)	CFR60A EPA 15/16
Dimethyl sulfide	ND	0.20	ppm(v/v)	CFR60A EPA 15/16

NOTE(S):

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

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: E4F090145
MB Lot-Sample #: M4F150000-199

Analysis Date..: 06/11/04
Dilution Factor: 1

Work Order #...: GJDDF1AA

Prep Date.....: 06/11/04
Prep Batch #...: 4167199

Analyst ID.....: 101605

Matrix.....: AIR

Analysis Time..: 15:47
Instrument ID..: GC3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Total Non-Methane Hydroca	ND	30	ppm-c	CFR60A EPA 25C

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: E4F090145 **Work Order #...:** GH51G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F110000-430 GH51G1AD-LCSD
Prep Date.....: 06/10/04 **Analysis Date..:** 06/10/04
Prep Batch #...: 4163430 **Analysis Time..:** 09:54
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 341569

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**99**	**(75 - 135)**			**EPA-2 TO-15**
	99	**(75 - 135)**	**0.060**	**(0-20)**	**EPA-2 TO-15**
Methylene chloride	**95**	**(75 - 125)**			**EPA-2 TO-15**
	94	**(75 - 125)**	**1.0**	**(0-20)**	**EPA-2 TO-15**
Trichloroethene	**101**	**(75 - 130)**			**EPA-2 TO-15**
	103	**(75 - 130)**	**1.8**	**(0-20)**	**EPA-2 TO-15**
1,1,2,2-Tetrachloroethane	**61**	**(60 - 130)**			**EPA-2 TO-15**
	65	**(60 - 130)**	**6.7**	**(0-20)**	**EPA-2 TO-15**
Toluene	**94**	**(75 - 125)**			**EPA-2 TO-15**
	98	**(75 - 125)**	**4.0**	**(0-20)**	**EPA-2 TO-15**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: E4F090145 **Work Order #...:** GH51G1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F110000-430 GH51G1AD-LCSD
Prep Date.....: 06/10/04 **Analysis Date..:** 06/10/04
Prep Batch #...: 4163430 **Analysis Time..:** 09:54
Dilution Factor: 1 **Instrument ID..:** MSD
Analyst ID.....: 341569

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
1,1-Dichloroethene	5.00	4.93	ppb(v/v)	99		EPA-2 TO-15
	5.00	4.93	ppb(v/v)	99	0.060	EPA-2 TO-15
Methylene chloride	5.00	4.75	ppb(v/v)	95		EPA-2 TO-15
	5.00	4.70	ppb(v/v)	94	1.0	EPA-2 TO-15
Trichloroethene	5.00	5.04	ppb(v/v)	101		EPA-2 TO-15
	5.00	5.13	ppb(v/v)	103	1.8	EPA-2 TO-15
1,1,2,2-Tetrachloroethane	5.00	3.04	ppb(v/v)	61		EPA-2 TO-15
	5.00	3.25	ppb(v/v)	65	6.7	EPA-2 TO-15
Toluene	5.00	4.69	ppb(v/v)	94		EPA-2 TO-15
	5.00	4.88	ppb(v/v)	98	4.0	EPA-2 TO-15

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4F090145 **Work Order #...:** GH3ET1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F100000-508 GH3ET1AD-LCSD
Prep Date.....: 06/10/04 **Analysis Date..:** 06/10/04
Prep Batch #...: 4162508 **Analysis Time..:** 10:32
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Carbon dioxide	**101**	**(75 - 125)**			**ASTM D1946**
	102	**(75 - 125)**	**0.62**	**(0-20)**	**ASTM D1946**
Methane	**90**	**(75 - 135)**			**ASTM D1946**
	89	**(75 - 135)**	**1.4**	**(0-20)**	**ASTM D1946**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4F090145 **Work Order #...:** GH3ET1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F100000-508 GH3ET1AD-LCSD
Prep Date.....: 06/10/04 **Analysis Date..:** 06/10/04
Prep Batch #...: 4162508 **Analysis Time..:** 10:32
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	**1.00**	**1.01**	**%(v/v)**	**101**		**ASTM D1946**
	1.00	**1.02**	**%(v/v)**	**102**	**0.62**	**ASTM D1946**
Methane	**0.0500**	**0.0450**	**%(v/v)**	**90**		**ASTM D1946**
	0.0500	**0.0444**	**%(v/v)**	**89**	**1.4**	**ASTM D1946**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4F090145 **Work Order #...:** GJARF1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F150000-195 GJARF1AD-LCSD
Prep Date.....: 06/11/04 **Analysis Date..:** 06/11/04
Prep Batch #...: 4167195 **Analysis Time..:** 11:36
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Carbon dioxide	**101**	**(75 - 125)**			**ASTM D1946**
	101	**(75 - 125)**	**0.0**	**(0-20)**	**ASTM D1946**
Methane	**90**	**(75 - 135)**			**ASTM D1946**
	89	**(75 - 135)**	**0.69**	**(0-20)**	**ASTM D1946**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4F090145 **Work Order #...:** GJARF1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F150000-195 GJARF1AD-LCSD
Prep Date.....: 06/11/04 **Analysis Date..:** 06/11/04
Prep Batch #...: 4167195 **Analysis Time..:** 11:36
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Carbon dioxide	**1.00**	**1.01**	**%(v/v)**	**101**		**ASTM D1946**
	1.00	**1.01**	**%(v/v)**	**101**	**0.0**	**ASTM D1946**
Methane	**0.0500**	**0.0450**	**%(v/v)**	**90**		**ASTM D1946**
	0.0500	**0.0447**	**%(v/v)**	**89**	**0.69**	**ASTM D1946**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4F090145 **Work Order #...:** GH9P11AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F140000-664 GH9P11AD-LCSD
Prep Date.....: 06/08/04 **Analysis Date..:** 06/08/04
Prep Batch #...: 4166664 **Analysis Time..:** 18:14
Dilution Factor: 1 **Instrument ID..:** GC4
Analyst ID.....: 358011

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hydrogen sulfide	**117**	**(60 - 130)**			**CFR60A EPA 15/16**
	113	**(60 - 130)**	**3.1**	**(0-25)**	**CFR60A EPA 15/16**
Carbonyl sulfide	**119**	**(75 - 140)**			**CFR60A EPA 15/16**
	113	**(75 - 140)**	**5.4**	**(0-25)**	**CFR60A EPA 15/16**
Methyl mercaptan	**117**	**(75 - 130)**			**CFR60A EPA 15/16**
	113	**(75 - 130)**	**3.4**	**(0-25)**	**CFR60A EPA 15/16**
Carbon disulfide	**103**	**(70 - 120)**			**CFR60A EPA 15/16**
	102	**(70 - 120)**	**1.0**	**(0-25)**	**CFR60A EPA 15/16**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4F090145
LCS Lot-Sample#: M4F140000-664
Prep Date.....: 06/08/04
Prep Batch #...: 4166664
Dilution Factor: 1
Analyst ID.....: 358011

Work Order #...: GH9P11AC-LCS
GH9P11AD-LCSD
Analysis Date..: 06/08/04
Analysis Time..: 18:14
Instrument ID..: GC4

Matrix.....: AIR

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Hydrogen sulfide	**0.940**	**1.10**	**ppm(v/v)**	**117**		**CFR60A EPA 15/16**
	0.940	**1.06**	**ppm(v/v)**	**113**	**3.1**	**CFR60A EPA 15/16**
Carbonyl sulfide	**1.10**	**1.31**	**ppm(v/v)**	**119**		**CFR60A EPA 15/16**
	1.10	**1.24**	**ppm(v/v)**	**113**	**5.4**	**CFR60A EPA 15/16**
Methyl mercaptan	**1.00**	**1.17**	**ppm(v/v)**	**117**		**CFR60A EPA 15/16**
	1.00	**1.13**	**ppm(v/v)**	**113**	**3.4**	**CFR60A EPA 15/16**
Carbon disulfide	**1.13**	**1.17**	**ppm(v/v)**	**103**		**CFR60A EPA 15/16**
	1.13	**1.16**	**ppm(v/v)**	**102**	**1.0**	**CFR60A EPA 15/16**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: E4F090145 **Work Order #...:** GJDDF1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F150000-199 GJDDF1AD-LCSD
Prep Date.....: 06/10/04 **Analysis Date..:** 06/10/04
Prep Batch #...: 4167199 **Analysis Time..:** 14:59
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Total Non-Methane Hydrocar	**103**	**(80 - 120)**			**CFR60A EPA 25C**
	103	**(80 - 120)**	**0.0**	**(0-20)**	**CFR60A EPA 25C**

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: E4F090145 **Work Order #...:** GJDDF1AC-LCS **Matrix.....:** AIR
LCS Lot-Sample#: M4F150000-199 GJDDF1AD-LCSD
Prep Date.....: 06/10/04 **Analysis Date..:** 06/10/04
Prep Batch #...: 4167199 **Analysis Time..:** 14:59
Dilution Factor: 1 **Instrument ID..:** GC3
Analyst ID.....: 101605

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Total Non-Methane Hydrocar	**3000**	**3080**	**ppm-c**	**103**		**CFR60A EPA 25C**
	3000	**3080**	**ppm-c**	**103**	**0.0**	**CFR60A EPA 25C**

NOTE(S):

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

Bold print denotes control parameters