



120.26.008

gr

2355 Hill Road
Fairbanks, Alaska 99709-5326
(907) 479-0600 FAX: 479-5691
E-mail: xxx@shanwil.com

Transmittal

RECEIVED

To: Alaska Department of Environmental
Conservation

Division of Spill Prevention and Response
610 University Avenue
Fairbanks, Alaska 99709

Attn: Ms. Deborah Williams

Date: October 2006

Job # 31-1-11321-001

Re: Water Quality Monitoring

NOV 03 2006

CONTAMINATED
SITES
FAIRBANKS

The following items are enclosed:

Copies	Description
1 original	Water Quality Monitoring Report, Jacks Services, Mile 266.5 Richardson Highway, Delta Junction, Alaska File 120.26.008

These are transmitted:

- As requested For your use For your information
 For review and comment For your action For your files

Comments:

Copies to: Bill Adams-Jack's Services

By: David McDowell
Title: Vice President

120.26.008

Open



October 30, 2006

RECEIVED

Alaska Department of Environmental Conservation
Division of Spill Prevention and Response
610 University Avenue
Fairbanks, Alaska 99709

NOV 03 2006

CONTAMINATED
SITES
FAIRBANKS

Attn: Ms. Deborah Williams

**RE: WATER QUALITY MONITORING REPORT, JACKS SERVICE, MILE 266.5
RICHARDSON HIGHWAY, DELTA JUNCTION, ALASKA, FILE 120.26.008**

In response to the conditional closure provisions outlined in the Alaska Department of Environmental Conservation (ADEC) December 21, 2005, letter, we present this water quality monitoring report for Jack's Service. A water sample was collected from the water supply well on October 5, 2006, and submitted for analysis for volatile organic compounds. This work was performed in accordance with our monitoring plan dated June 9, 2006. This is the first biennial water quality sample collected under the monitoring plan.

The Jack's Service Underground Storage Tank (UST) Facility No. 1776 is located at Mile 266.5 of the Richardson Highway in Delta Junction, Alaska. The property is described as Lots 7, 9, and 10, USS-2770, and the portion of Lots 85 and 86 that are east of the Richardson Highway. Jack's Service dispenses regular and super unleaded gasoline and includes a service garage. Also included in the property ownership is a liquor and video store. Water is supplied by a well that is located about 200 feet northeast of the service station building.

Water Quality

A water sample was collected from the sink in the liquor store. Prior to sampling, the tap was opened for 15 minutes to purge the well into the utility sink. Water quality field parameters of pH (6.2), temperature (8°C), and conductivity (130 µmhos/cm) were measured and recorded at the time of sampling. The sample was collected into laboratory-provided sample container preserved with HCl. The sample and a trip blank were placed in a cooler maintained with artificial ice at a temperature of 4°C for transfer to the SGS Laboratory in Fairbanks, Alaska;

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Attn: Ms. Deborah Williams
October 30, 2006
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SGS transferred the sample to their laboratory in Anchorage, and then submitted it to MWH Laboratories in Monrovia, California. SGS and MWH are ADEC-approved laboratories.

The sample and trip blank were analyzed for volatile organic compounds by EPA Method 524.2. None of the analytes for this method were reported above the laboratory reporting limits. None of the reporting limits were greater than the target cleanup levels. The complete laboratory report is included as an attachment to this letter.

Quality control for this sampling event included submitting a field trip blank and standard laboratory quality control. A duplicate sample was not collected. The temperature blank in the sample shipment from SGS laboratory in Fairbanks to SGS in Anchorage was recorded at 1.8°C, but the cooler temperature was within the target range of 2°C to 6°C. These variances, in our opinion, do not detract from the usability of the data.

In accordance with the workplan, the next groundwater sample will be collected in 2008.

Soil Vapor Extraction

The passive ventilation extraction system was checked for volatile organic compounds with a photoionization detector (PID). The portable vapor extraction blower was connected to vent stack VS4, but was not operating at the time of sample collection. The PID probe was placed into the sample port of each vent stack, and the maximum response was recorded for each vent stack. Vent stack PID measurements have declined significantly since installation in 1998, and since the last measurement in May 2004. Vent stacks VS1 and VS2 had the highest measurements at 24 and 25 ppm respectively. VS5 was at 1 ppm, and measurements of the other vent stacks were less than 1 ppm. Figure 1 is a chart of vent stack PID measurements since 1998.

Limitations

The data presented in this report should be considered representative of the time of our site observations and sample collection. Changes in the observed site conditions can occur with the passage of time. It is possible that our tests do not represent the highest levels of contamination and should not be construed as a comprehensive study of environmental conditions at the site. In

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Attn: Ms. Deborah Williams
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SHANNON & WILSON, INC.

addition, changes in government codes, regulations, or laws may occur. Because of such changes beyond our control, our observations and interpretations may need to be revised.

We are pleased to provide this groundwater monitoring report for Jacks Service. Please contact me if you have any questions.

Sincerely,

SHANNON & WILSON, INC.

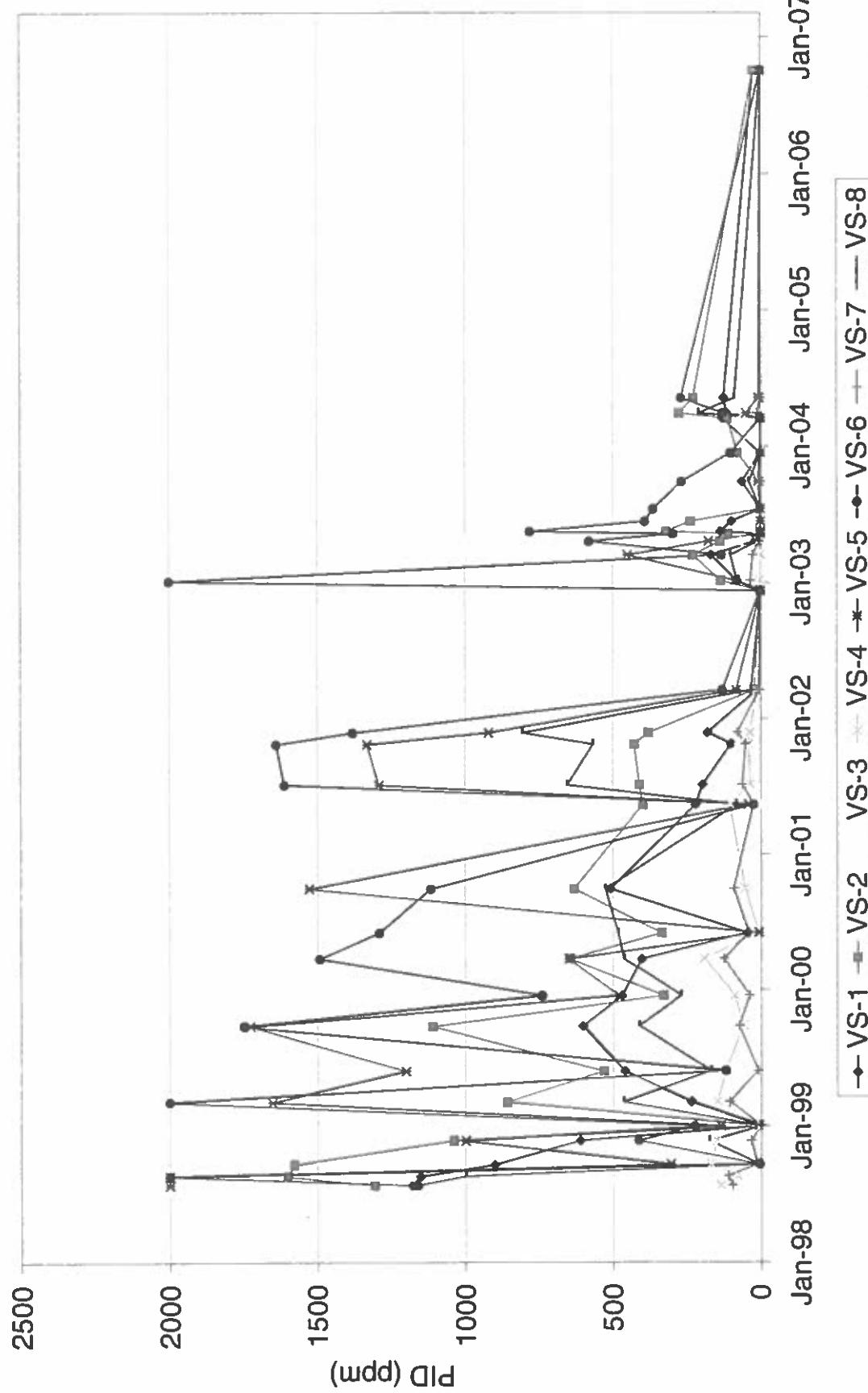


David M. McDowell
Vice President

Enclosures: Figure 1 Vent Stack PID
Laboratory Analytical Results, SGS 1065746

Cc: Bill Adams, Jack's Service

Figure 1 Jack's Service Vent Stack PID



LABORATORY QC CHECKLIST

Sheet 1
of 1

Project Jack's Service
 Location Delta Junction
 QC Review by D. McDowell
 Laboratory SGS
 ADEC Approved

Project Number 31-1-11321-001 Date 10/30/06Client Bill AdamsLaboratory Sample Delivery Group 1065746

Network or Subcontract Laboratory
 (if applicable) MWH Laboratories
 ADEC Approved *Drinking water Registry*

Laboratory Sample Delivery Group 186139

Sample Receipt
 Chain of Custody complete?
 Samples received in good condition?

Include a discussion of any QC variations in the assessment report.

Test Method: VOC 524.2Matrix: water

Y N Y N Y N Y N Y N Y N

Temperature (4° C ± 2° C)

Cooler	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
Temperature Blank	1.8	<input type="checkbox"/>					

Sample Results

Sample Hold Time Met	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
Soil reported on dry weight basis	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PQLs < Cleanup Levels	<input checked="" type="checkbox"/>	<input type="checkbox"/>					

Quality Control

Data Qualifiers (flagged data)	<input type="checkbox"/>						
--------------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Surrogate Recoveries

% recovery met lab limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
% recovery met DQO?	<input checked="" type="checkbox"/>	<input type="checkbox"/>					

LCS/LCSD

% recovery within limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
%RPD within limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>					

MS/MSD

% recovery within limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
%RPD within limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/>					

Method Blank

Meets DQOs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
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Field Duplicates

10% of total samples	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
% RPD met?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Trip Blank

One per cooler	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
Meets DQOs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>					

Decon/rinsate

Meets DQOs?	<input type="checkbox"/>						
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**SGS Environmental Services
Alaska Division
Level II Laboratory Data Report**

Project: 31-1-11321-001 Jacks
Client: Shannon & Wilson-Fairbanks
SGS Work Order: 1065746

Released by: *Stephen C. Ede* Stephen C. Ede
Alaska Division Technical Director 2006.10.24
11:13:14 -08'00'

Contents:

Cover Page
Case Narrative
Final Report Pages
Quality Control Summary Forms
Chain of Custody/Sample Receipt Forms

Note:

Unless otherwise noted, all quality assurance/quality control criteria is in compliance with the standards set forth by the proper regulatory authority, the SGS Quality Assurance Program Plan, and the National Environmental Accreditation Conference.



Case Narrative

Client SHANFBK **Shannon & Wilson-Fairbanks** **Printed Date/Time** 10/24/2006 10:43
Workorder 1065746 **31-1-11321-001 Jacks**

Sample ID **Client Sample ID**

Refer to the sample receipt form for information on sample condition.

1065746001 PS 1321-100506-JWI

VOC 524.2 was analyzed by Montgomery Watson Harza in Monrovia, CA.

1065746002 TB Trip Blank

VOC 524.2 was analyzed by Montgomery Watson Harza in Monrovia, CA.

200 W. Potter Drive
Anchorage, AK 99518-1605
Tel: (907) 562-2343
Fax: (907) 561-5301
Web: <http://www.us.sgs.com>

David McDowell
Shannon & Wilson-Fairbanks
2355 Hill Rd
Fairbanks, AK 99709

Work Order:	1065746	
	31-I-11321-001 Jacks	Released by:
Client:	Shannon & Wilson-Fairbanks	
Report Date:	October 24, 2006	

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintained by SGS. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request.

The laboratory certification numbers are AK971-05 (DW), UST-005 (CS) and AK00971 (Micro) for ADEC and 001582 for NELAP (RCRA methods: 1010/1020, 1311, 6000/7000, 9040/9045, 9056, 9060, 9065, 8015B, 8021B, 8081A/8082, 8260B, 8270C).

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP, the National Environmental Laboratory Accreditation Program and, when applicable, other regulatory authorities.

If you have any questions regarding this report or if we can be of any other assistance, please contact your SGS Project Manager at 907-562-2343.

The following descriptors may be found on your report which will serve to further qualify the data.

PQL	Practical Quantitation Limit (reporting limit).
U	Indicates the analyte was analyzed for but not detected.
F	Indicates value that is greater than or equal to the MDL.
J	The quantitation is an estimation.
ND	Indicates the analyte is not detected.
B	Indicates the analyte is found in a blank associated with the sample.
*	The analyte has exceeded allowable regulatory or control limits.
GT	Greater Than
D	The analyte concentration is the result of a dilution.
LT	Less Than
!	Surrogate out of control limits.
Q	QC parameter out of acceptance range.
M	A matrix effect was present.
JL	The analyte was positively identified, but the quantitation is a low estimation.
E	The analyte result is above the calibrated range.

Note: Soil samples are reported on a dry weight basis unless otherwise specified.

1065746

Shannon & Wilson, Inc.

400 N 34th Street, Suite 100 1150 Olive Blvd., Suite 276
 Seattle, WA 98103 St. Louis, MO 63141
 (206) 631-8020 (314) 672-4170

1355 Hill Road Fairbanks, AK 99707
 (907) 451-0600

Chain of Custody Record

Analysis Parameters/Sample Container Description (Include preservative if used)

Page 1
 Laboratory SWS
 Attn: Shenny

Sample Identity: 1321-1005206-JW1

Lab No.	1A-F	Date Sampled	10-5
Time	1520	Received From	<u>Trip Blank</u>
			A-C

2004

Remarks/Matrix
Total Number of Containers

10 water
3 water

Instructions

Requested Turn Around Time: 2nd a P.M.

Special Instructions:

4 or

Distribution: White - Whipment - returned to Shannon & Wilson w/ Laboratory report
 Yellow - Whipment - for consignee Rec'd
 Pink - Shannon & Wilson - Job File

Sample Identity	Lab No.	Date Sampled	Time	Received From	Total Number of Containers	Remarks/Matrix
1321-1005206-JW1	1A-F	1520	10-5	X X X X		
Trip Blank	2A-D	10/4/06				

Project Information

Project Number: <u>311-11521-00</u>	Sample Receipt
Project Name: <u>JACKS</u>	Total Number of Containers <u>9</u>
Contact: <u>David McDonald</u>	COC Seals/Inlays Y/N/A <u>N/A</u>
Ongoing Project? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <u>No</u>	Received Good Cold/Cold <u>Y/Y</u>
Sample: <u>Angela Miller</u>	Delivery Method: Hand <u>Hand</u>
	Attach shipping bill, if any <u>NO</u>

Instructions

Received By: 1 Shenny

Received By: 2 Shenny

Received By: 3 Shenny

Received By: 4 Shenny

Received By: 5 Shenny

Received By: 6 Shenny

Received By: 7 Shenny

Received By: <u>1</u> <u>Shenny</u>	Received By: <u>2</u> <u>Shenny</u>
Signature: <u>Shenny</u>	Signature: <u>Shenny</u>
Printed Name: <u>Julie (Shenny)</u>	Printed Name: <u>Julie (Shenny)</u>
Date: <u>10/4/06</u>	Date: <u>10/4/06</u>
Received By: <u>3</u> <u>Shenny</u>	Received By: <u>4</u> <u>Shenny</u>
Signature: <u>Shenny</u>	Signature: <u>Shenny</u>
Printed Name: <u>Julie (Shenny)</u>	Printed Name: <u>Julie (Shenny)</u>
Date: <u>10/4/06</u>	Date: <u>10/4/06</u>
Received By: <u>5</u> <u>Shenny</u>	Received By: <u>6</u> <u>Shenny</u>
Signature: <u>Shenny</u>	Signature: <u>Shenny</u>
Printed Name: <u>Julie (Shenny)</u>	Printed Name: <u>Julie (Shenny)</u>
Date: <u>10/4/06</u>	Date: <u>10/4/06</u>
Received By: <u>7</u> <u>Shenny</u>	Received By: <u>8</u> <u>Shenny</u>
Signature: <u>Shenny</u>	Signature: <u>Shenny</u>
Printed Name: <u>Julie (Shenny)</u>	Printed Name: <u>Julie (Shenny)</u>
Date: <u>10/4/06</u>	Date: <u>10/4/06</u>

SGS

SAMPLE RECEIPT FORM

SGS WO#:

1065746

Yes No NA

- Are samples RUSH, priority, or w/n 72 hrs. of hold time? Due Date: 6/20/06
- If yes have you done e-mail notification?
- Are samples within 24 hrs. of hold time or due date?
- If yes, have you spoken with Supervisor?
- Archiving bottles - if req., are they properly marked?
- Are there any problems? PM Notified?
- Were samples preserved correctly and pH verified?

Received Date: 10/6/06Received Time: 1355

Is date/time conversion necessary?

of hours to AK Local Time:

Thermometer ID: longstem.B

Cooler ID	Temp Blank	Cooler Temp
1	4.5 °C	3.4 °C
	°C	°C
	°C	°C
	°C	°C
	°C	°C

*Temperature readings include thermometer correction factors.

Delivery method (circle all that apply): Client

Alert Courier / UPS / FedEx / USPS ✓

AA Goldstreak / NAC / ERA / PenAir / Cartile

Lynden / SGS / Other:

Airbill #

Additional Sample Remarks: (✓ if applicable)

 Extra Sample Volume? (1) D-F

Limited Sample Volume?

Field preserved for volatiles?

Field-filtered for dissolved?

Lab-filtered for dissolved?

 Ref Lab required? 524.2

Foreign Soil?

THIS SECTION MUST BE FILLED IF PROBLEMS ARE FOUND

Yes No

Was client notified of problems?

Individual contacted:

Via: Phone / Fax / Email (circle one)

Date/Time:

Reason for contact:

Change Order Required?

SGS Contact:

This section must be filled out for DoD projects (USACE, Navy, AFCEE)

Yes No

Is received temperature $4 \pm 2^\circ\text{C}$?

Exceptions:

Samples/Analyses Affected:

Rad Screen performed? Result:

Was there an airbill? (Note # above in the right hand column)

Was cooler sealed with custody seals?

/ where:

Were seal(s) intact upon arrival?

Was there a COC with cooler?

Was COC sealed in plastic bag & taped inside lid of cooler?

Was the COC filled out properly?

Did the COC indicate COE / AFCEE / Navy project?

Did the COC and samples correspond?

Were all sample packed to prevent breakage?

Packing material:

Were all samples unbroken and clearly labeled?

Were all samples sealed in separate plastic bags?

Were all VOCs free of headspace and/or MeOH preserved?

Were correct container / sample sizes submitted?

Is sample condition good?

Was copy of CoC, SRF, and custody seals given to PM to fax?

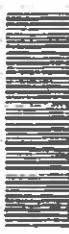
Notes: bubbles >6mm in visler (1) D-F (extra vol.)Completed by (sign): Sunny Castleberry(print): Sunny CastleberryLogin proof (check one): waived required performed by: Client Fee

SGS

SAMPLE RECEIPT FORM (page 2)

SGS WO#:

1065746



#	Container ID	MATERIAL	Test	QC	LB	FL	40 mL	60 mL	125 mL	250 mL	500 mL	1L	8oz (250 mL)	4oz (125 mL)	Other	AG	CG	HDPE	Nalgene	Cubicle	Coil	Septa	Other	None	HCl	HNO ₃	H ₂ SO ₄	MeOH	Na ₂ S ₂ O ₃	NaOH	Preservative
1	A-C	1	524.2 VOC																												
	D-F		extra vol																												
12	A-C	1	524.2 VOC	X																											

Bottle Totals

9

Completed by: Jenny Castiberry Date: 10/10/06

SGS

1065746

SGS WO#:



SAMPLE RECEIPT FORM FOR TRANSFERS
From
FAIRBANKS, ALASKA OR HONOLULU, HAWAII
To

ANCHORAGE, AK

**TO BE COMPLETED IN ANCHORAGE UPON ARRIVAL FROM FAIRBANKS OR HAWAII.
NOTES RECORDED BELOW ARE ACTIONS NEEDED UPON ARRIVAL IN ANCHORAGE.**

Notes: _____

Receipt Date / Time: 10/7/06 1050 hrs Arr 10/7/06

Is Sample Date/Time Conversion Necessary? Yes No ✓

Number of Hours From Alaska Local Time: _____

Foreign Soil? Yes No ✓

Delivery method to Anchorage (circle all that apply):

Alert Courier / UPS / FedEx / USPS / AA Goldstreak / NAC / ERA / PenAir / Carlile / Lynden / SGS

Other: _____

Airbill #: _____

COOLER AND TEMP BLANK READINGS*

Cooler ID	Temp Blank (°C)	Cooler (°C)	Cooler ID	Temp Blank (°C)	Cooler (°C)
	<u>1.8</u>	<u>4.3</u>			

CUSTODY SEALS INTACT: YES / NO

WHERE: 1 on front

COMPLETED BY: Ali J. Bell

*Temperature readings include thermometer correction factors.

5747

TB = 1.8
C = 4.3

CUSTODY SEAL NO 5745-5746



Signature: Sunny Gottlieb

Date/Time: 196/06 @ 1640



750 Royal Oaks Drive Suite 100
Monrovia, California 91016-3829
Tel 626 386 1100
Fax 626 386 1101
800 560 LA35 (* 800 566 5227)

Laboratory Report

for

SGS Environmental Services Inc.
200 W. Potter Drive

Anchorage , AK 99518

Attention: Forest Taylor
Fax: (907) 561-5301

A handwritten signature in black ink, appearing to read "Yolanda Martin". It is enclosed in a rectangular box with some faint printed text at the top that is mostly illegible.

YOM Yolanda Martin
Project Manager



Report#: 186139
Project: DRINKING
PO#: 1065746

Laboratory certifies that the test results meet all NELAC requirements unless noted in the Comments section or the Case Narrative. Following the cover page are QC Report, QC Summary, Data Report, Hits Report, totaling 16 page[s].

SGS

CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

1 CLIENT SGS-AK		CONTACT BRENT TAYLOR		PHONE NO 907 542 2343		SITE/ADDRESS :		PAGE 1 Of 1	
PROJECT JACKS									
REPORT TO:		E MAIL:							
INVOICE TO:		FAX NO ()		QUOTE #:					
2		PO NUMBER 1065746		DATE 10/5/01		TIME 1520		MATRIX H ₂ O	
SAMPLE IDENTIFICATION									
1321-1065746-TW1		10/5/01		1520		H ₂ O		5	
TRIP BLANK		10/5/01		1520		H ₂ O		3	
3		10/5/01		1520		H ₂ O		5	
4		10/5/01		1520		H ₂ O		3	
5		10/5/01		0800		H ₂ O		5	
Received By (1)		Date 10/5/01		Time 0800		Received By BRENT TAYLOR		Received By	
Released By (1)		Date 10/5/01		Time 0800		Received By		Received By	
Received By (1)		Date 10/5/01		Time 0800		Received By		Received By	
Received By (1)		Date 10/5/01		Time 0800		Received By		Received By	
Samples Received Color (Circle) YES NO		Temperature (C.) 52		Chain of Custody Seal (Circle) INTACT BROKEN ABSENT		5		5	
Shipping Carrier UPS		Shipping Ticket No. 12345		Special Deliverable Requirements		Requested Turnaround Time and Special Instructions EXTRA VOLUME		5	
5		5		5		5		5	

Attn: Mr. Brent Taylor, Director, SGS Environmental Services Inc., 1127 Greenleaf Street, Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761

Locations Nationwide
 • Alaska
 • Hawaii
 • Connecticut
 • New York
 • West Virginia
 • North Carolina
 • South Carolina
 • And more coming soon

Printed by (1) BRENT TAYLOR - 10/5/01
 Printed at (1) BRENT TAYLOR - 10/5/01
 Printed by (1) BRENT TAYLOR - 10/5/01

MWH Laboratories
750 Royal Oaks Drive, Monrovia, CA 91016
PHONE: 626-386-1100/FAX: 626-386-1101

ACKNOWLEDGMENT OF SAMPLES RECEIVED

SGS Environmental Services Inc.
200 W. Potter Drive
Anchorage, AK 99518
Attn: Forest Taylor
Phone: (907) 562-2343

Customer Code: CTE-AK
PC#: 1065746
Group#: 186139
Project#: DRINKING
Proj Mgr: Yolanda Martin
Phone: (626) 386-1104

The following samples were received from you on 10/11/06. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using MWH Laboratories.

Sample#	Sample Id	Matrix	Sample Date
Tests Scheduled			
2610110057	1065746001	Water @VOASDWA	05-oct-2006 15:20:00
2610110058	1065746002	Water @VOASDWA	05-oct-2006 15:20:00

Test Acronym Description

Test Acronym	Description
@VOASDWA	Regulated VOCs plus Lists 1&3



750 Royal Oaks Drive, Suite 100
Moorpark, California 93016-3629
Tel: 808 386 1100
Fax: 808 386 1101
1 800 500 5ABS (* 603 500 5227)

Laboratory
Hits Report
#186139

SGS Environmental Services Inc.
Forest Taylor
200 W. Potter Drive
Anchorage , AK 99518

Samples Received
11-oct-2006 11:18:18

Analyzed	Sample#	Sample ID	Result	Federal MCL	UNITS	MRL
	2610110057	1065746001	1321-100506-JW1			
	2610110058	1065746002	TRIP BLANK			

SUMMARY OF POSITIVE DATA ONLY.

Hits Report - Page 1 of 1
Page 12 of 27



Laboratory
Data Report
#186139

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3229
Tel 626 386 1100
Fax 626 386 1101
+ 800 566 LABS (+ 800 566 5227)

SGS Environmental Services Inc.
Forest Taylor
200 W. Potter Drive
Anchorage , AK 99518

Samples Received
10/11/06

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MPL	Dilution
10/13/06	11:43	337275	(EPA 524.2	) 1,1,1,3-Tetrachloroethane	ND	ug/l	0.5	1
1065746001 1321-100506-JWL (2610110057) Sampled on 10/05/06 15:20								
Regulated VOCs plus Lists 1&3								
10/13/06	11:43	337275	(EPA 524.2	) 1,1,1-Trichloroethane	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) 1,1,2,2-Tetrachloroethane	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) 1,1,2-Trichloroethane	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) 1,1-Dichloroethane	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) 1,1-Dichloroethylene	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) 1,1-Dichloropropene	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) 1,2,3-Trichlorobenzene	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) 1,2,3-Trichloropropane	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) 1,2,4-Trichlorobenzene	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) 1,2,4-Trimethylbenzene	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) 1,2-Dichloroethane	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) 1,2-Dichloropropane	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) 1,3,5-Trimethylbenzene	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) 1,1-Dichloropropane	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) 2,2-Dichloropropane	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) 2-Butanone (MEK)	ND	ug/l	5.0	1
10/13/06	11:43	337275	(EPA 524.2	) o-Chlorotoluene	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) p-Chlorotoluene	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) 4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
10/13/06	11:43	337275	(EPA 524.2	) Benzene	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) Bromobenzene	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) Bromomethane (Methyl Bromide)	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) Bromoethane	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) cis-1,2-Dichloroethylene	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) Chlorobenzene	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) Carbon Tetrachloride	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2	) cis-1,3-Dichloropropene	ND	ug/l	0.5	1
10/13/06	11:43	337275	(EPA 524.2) Bromoform	ND	ug/l	0.5	1



Laboratory
Data Report
#186139

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SGS Environmental Services Inc.
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
10/13/06	11:43	337275	{ EPA 524.2	) Chloroform (Trichloromethane)	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) Bromochloromethane	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) Chloroethane	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) Chloromethane(Methyl Chloride)	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) Chlorodibromomethane	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) Dibromomethane	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) Bromodichloromethane	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) Dichloromethane	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) Di-isopropyl ether	ND	ug/l	3.0	1
10/13/06	11:43	337275	{ EPA 524.2	) Ethyl benzene	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) Dichlorodifluoromethane	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) Fluorotrichloromethane-Freon11	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) Hexachlorobutadiene	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) Isopropylbenzene	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) m,p-Xylenes	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) Methyl Tert-butyl ether (MTBE)	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) Naphthalene	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) n-Butylbenzene	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) n-Propylbenzene	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) o-Xylene	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) Tetrachloroethylene (PCE)	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) p-Isopropyltoluene	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) sec-Butylbenzenes	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) Styrene	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) trans-1,2-Dichloroethylene	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) tert-amyl Methyl Ether	ND	ug/l	3.0	1
10/13/06	11:43	337275	{ EPA 524.2	) tert-Butyl Ethyl Ether	ND	ug/l	3.0	1
10/13/06	11:43	337275	{ EPA 524.2	) tert-Butylbenzenes	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) Trichloroethylene (TCE)	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) trichlorotrifluoroethane(Freon	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	) trans-1,3-Dichloropropene	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2) Toluens	ND	ug/l	0.5	1



Laboratory
Data Report
#186139

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SGS Environmental Services Inc.
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
10/13/06	11:43	337275	{ EPA 524.2	} Total 1,3-Dichloropropene	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	} Total THM	ND	ug/l	0.5	1
10/13/06	11:43	337275	{ EPA 524.2	} Total xylenes	ND	ug/l	1.0	1
10/13/06	11:43	337275	{ EPA 524.2	} Vinyl chloride (VC)	ND	ug/l	0.3	1
			{ EPA 524.2	} 1,2-Dichloroethane-d4(70-130)	119	% Rec		
			{ EPA 524.2	} 4-Bromofluorobenzene(70-130)	101	% Rec		
			{ EPA 524.2	} Toluene-d8(70-130)	95	% Rec		



Laboratory
Data Report
#186139

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SGS Environmental Services Inc.
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
10/13/06	12:11	337275	(EPA 524.2	) 1,1,1,2-Tetrachloroethane	ND	ug/l	0.5	1

Regulated VOCs plus Lists 1&3								
10/13/06	12:11	337275	(EPA 524.2	) 1,1,1,2-Tetrachloroethane	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) 1,1,1,3-Trichloroethane	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) 1,1,2,2-Tetrachloroethane	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) 1,1,2-Trichloroethane	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) 1,1-Dichloroethane	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) 1,1-Dichloroethylene	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) 1,1-Dichloropropene	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) 1,2,3-Trichlorobenzene	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) 1,2,3-Trichloropropane	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) 1,2,4-Trichlorobenzene	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) 1,2,4-Trimethylbenzene	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) 1,2-Dichloroethane	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) 1,2-Dichloropropane	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) 1,3,5-Trimethylbenzene	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) 1,3-Dichloropropane	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) 2,2-Dichloropropane	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) 2-Butanone (MEK)	ND	ug/l	5.0	1
10/13/06	12:11	337275	(EPA 524.2	) o-Chlorotoluene	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) p-Chlorotoluene	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) 4-Methyl-2-Pentanone (MIBK)	ND	ug/l	5.0	1
10/13/06	12:11	337275	(EPA 524.2	) Benzene	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) Bromobenzene	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) Bromomethane (Methyl Bromide)	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) Bromoethane	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) cis-1,2-Dichloroethylene	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) Chlorobenzene	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) Carbon Tetrachloride	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) cis-1,3-Dichloropropene	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2	) Bromoform	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2) Chloroform (Trichloromethane)	ND	ug/l	0.5	1



Laboratory
Data Report
#186139

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SGS Environmental Services Inc.
(continued)

Prepared	Analyzed	CC Ref#	Method	Analyte	Result	Units	MRL	Dilution
10/13/06 12:11	337275	{ EPA 524.2	) Bromochloromethane	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) Chloroethane	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) Chloromethane(Methyl Chloride)	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) Chlorodibromomethane	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) Dibromomethane	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) Bromodichloromethane	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) Dichloromethane	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) Di-isopropyl ether	ND	ug/l	3.0	1
10/13/06 12:11	337275	{ EPA 524.2	) Ethyl benzene	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) Dichlorodifluoromethane	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) Fluorotrichloromethane-Freon11	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) Hexachlorobutadiene	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) Isopropylbenzene	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) m,p-Xylenes	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) Methyl Tert-butyl ether (MTBE)	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) Naphthalene	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) n-Butylbenzene	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) n-Propylbenzene	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) o-Xylene	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) Tetrachloroethylene (PCE)	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) p-Isopropyltoluene	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) sec-Butylbenzene	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) Styrene	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) trans-1,2-Dichloroethylene	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) tert-amyI Methyl Ether	ND	ug/l	3.0	1
10/13/06 12:11	337275	{ EPA 524.2	) tert-Butyl Ethyl Ether	ND	ug/l	3.0	1
10/13/06 12:11	337275	{ EPA 524.2	) tert-Butylbenzene	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) Trichloroethylene (TCE)	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) Trichlorotrifluoroethane(Freon	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) trans-1,3-Dichloropropene	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2	) Toluene	ND	ug/l	0.5	1
10/13/06 12:11	337275	{ EPA 524.2) Total 1,3-Dichloropropene	ND	ug/l	0.5	1	



Laboratory
Data Report
#186139

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SGS Environmental Services Inc.
(continued)

Prepared	Analyzed	QC Ref#	Method	Analyte	Result	Units	MFL	Dilution
10/13/06	12:11	337275	(EPA 524.2)	Total THM	ND	ug/l	0.5	1
10/13/06	12:11	337275	(EPA 524.2)	Total xylenes	ND	ug/l	1.0	1
10/13/06	12:11	337275	(EPA 524.2)	Vinyl chloride (VC)	ND	ug/l	0.1	1
			(EPA 524.2)	Toluene-d8(70-130)	96	% Rec		
			(EPA 524.2)	1,1-Dichloroethane-d4(70-130)	120	% Rec		
			(EPA 524.2)	4-Bromofluorobenzene(70-130)	98	% Rec		



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Laboratory
QC Summary
#186139

SGS Environmental Services Inc.

QC Ref #337275 - Regulated VOCs plus Lists 1&3 Analysis Date: 10/13/2006

2610110057	1065746001 1321-100506-JW	Analyzed by: rpd
2610110058	1065746002 TRIP BLANK	Analyzed by: rpd



Laboratory
QC Report
#186139

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SGS Environmental Services Inc.

QC Ref #337275 Regulated VOCs plus Lists 1&3

QC	Analyte	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPD (%)
LCS1	1,1,1,2-Tetrachloroethane	5	5.05	UGL	101.0	(70-130)	
LCS2	1,1,1,2-Tetrachloroethane	5	4.87	UGL	97.4	(70-130)	
MBLK	1,1,1,2-Tetrachloroethane	ND	<0.5	UGL	-	-	
RPD_LCS	1,1,1,2-Tetrachloroethane	101.000	97.400	UGL	3.6	(0-20)	
LCS1	1,1,1-Trichloroethane	5	5.39	UGL	107.8	(70-130)	
LCS2	1,1,1-Trichloroethane	5	5.35	UGL	107.0	(70-130)	
MBLK	1,1,1-Trichloroethane	ND	<0.5	UGL	-	-	
RPD_LCS	1,1,1-Trichloroethane	107.800	107.000	UGL	0.7	(0-20)	
LCS1	1,1,2,2-Tetrachloroethane	5	5.55	UGL	111.0	(70-130)	
LCS2	1,1,2,2-Tetrachloroethane	5	5.47	UGL	109.4	(70-130)	
MBLK	1,1,2,2-Tetrachloroethane	ND	<0.5	UGL	-	-	
RPD_LCS	1,1,2,2-Tetrachloroethane	111.000	109.400	UGL	1.5	(0-20)	
LCS1	1,1,2-Trichloroethane	5	5.09	UGL	101.8	(70-130)	
LCS2	1,1,2-Trichloroethane	5	5.13	UGL	102.6	(70-130)	
MBLK	1,1,2-Trichloroethane	ND	<0.5	UGL	-	-	
RPD_LCS	1,1,2-Trichloroethane	101.800	102.600	UGL	0.8	(0-20)	
LCS1	1,1-Dichloroethane	5	5.27	UGL	105.4	(70-130)	
LCS2	1,1-Dichloroethane	5	5.15	UGL	103.0	(70-130)	
MBLK	1,1-Dichloroethane	ND	<0.5	UGL	-	-	
RPD_LCS	1,1-Dichloroethane	105.400	103.000	UGL	2.3	(0-20)	
LCS1	1,1-Dichloroethylene	5	5.38	UGL	107.6	(70-130)	
LCS2	1,1-Dichloroethylene	5	5.35	UGL	107.0	(70-130)	
MBLK	1,1-Dichloroethylene	ND	<0.5	UGL	-	-	
RPD_LCS	1,1-Dichloroethylene	107.600	107.000	UGL	0.6	(0-20)	
LCS1	1,1-Dichloropropene	5	4.63	UGL	92.6	(70-130)	
LCS2	1,1-Dichloropropene	5	4.49	UGL	89.8	(70-130)	
MBLK	1,1-Dichloropropene	ND	<0.5	UGL	-	-	
RPD_LCS	1,1-Dichloropropene	92.600	89.800	UGL	3.1	(0-20)	
LCS1	1,2,3-Trichlorobenzene	5	4.72	UGL	94.4	(70-130)	
LCS2	1,2,3-Trichlorobenzene	5	4.58	UGL	91.6	(70-130)	
MBLK	1,2,3-Trichlorobenzene	ND	<0.5	UGL	-	-	
RPD_LCS	1,2,3-Trichlorobenzene	94.400	91.600	UGL	3.0	(0-20)	
LCS1	1,2,3-Trichloropropene	5	4.96	UGL	99.2	(70-130)	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

Laboratory
QC Report
#186139

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SGS Environmental Services Inc.
(continued)

LCS2	1,2,3-Trichloropropane	S	5.07	UGL	101.4	(70-130)
NBLK	1,2,3-Trichloropropane	ND	<0.5	UGL		
RPD_LCS	1,2,3-Trichloropropane	99.200	101.400	UGL	2.2	(0-20)
LCS1	1,2,4-Trichlorobenzene	S	4.65	UGL	93.0	(70-130)
LCS2	1,2,4-Trichlorobenzene	S	4.47	UGL	89.4	(70-130)
MBLK	1,2,4-Trichlorobenzene	ND	<0.5	UGL		
RPD_LCS	1,2,4-Trichlorobenzene	93.000	89.400	UGL	1.9	(0-20)
LCS1	1,2,4-Trimethylbenzene	S	4.70	UGL	94.0	(70-130)
LCS2	1,2,4-Trimethylbenzene	S	4.62	UGL	92.4	(70-130)
NBLK	1,2,4-Trimethylbenzene	ND	<0.5	UGL		
RPD_LCS	1,2,4-Trimethylbenzene	94.000	92.400	UGL	1.7	(0-20)
LCS1	1,2-Dichloroethane	S	5.37	UGL	107.4	(70-130)
LCS2	1,2-Dichloroethane	S	5.36	UGL	107.2	(70-130)
MBLK	1,2-Dichloroethane	ND	<0.5	UGL		
RPD_LCS	1,2-Dichloroethane	107.400	107.200	UGL	0.2	(0-20)
LCS1	1,2-Dichloropropane	S	4.74	UGL	94.8	(70-130)
LCS2	1,2-Dichloropropane	S	4.79	UGL	95.8	(70-130)
MBLK	1,2-Dichloropropane	ND	<0.5	UGL		
RPD_LCS	1,2-Dichloropropane	94.800	95.800	UGL	1.0	(0-20)
LCS1	1,3,5-Trimethylbenzene	S	4.63	UGL	92.6	(70-130)
LCS2	1,3,5-Trimethylbenzene	S	4.44	UGL	88.8	(70-130)
MBLK	1,3,5-Trimethylbenzene	ND	<0.5	UGL		
RPD_LCS	1,3,5-Trimethylbenzene	92.600	88.800	UGL	4.2	(0-20)
LCS1	1,3-Dichloropropane	S	5.26	UGL	105.2	(70-130)
LCS2	1,3-Dichloropropane	S	5.15	UGL	107.0	(70-130)
MBLK	1,3-Dichloropropane	ND	<0.5	UGL		
PPD_LCS	1,3-Dichloropropane	105.200	107.000	UGL	1.7	(0-20)
LCS1	p-Dichlorobenzene (1,4-DCB)	S	5.61	UGL	112.2	(70-130)
LCS2	p-Dichlorobenzene (1,4-DCB)	S	5.52	UGL	110.4	(70-130)
MBLK	p-Dichlorobenzene (1,4-DCB)	ND	<0.5	UGL		
RPD_LCS	p-Dichlorobenzene (1,4-DCB)	112.200	110.400	UGL	1.6	(0-20)
LCS1	2,2-Dichloropropane	S	4.41	UGL	88.2	(70-130)
LCS2	2,2-Dichloropropane	S	4.38	UGL	87.6	(70-130)
MBLK	2,2-Dichloropropane	ND	<0.5	UGL		
RPD_LCS	2,2-Dichloropropane	88.200	87.600	UGL	0.7	(0-20)
LCS1	2-Butanone (MEK)	S	45.0	UGL	90.0	(70-130)

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Laboratory
QC Report
#186139

750 Royal Oaks Drive, Suite 100
Whittier, California 90606-3229
Tel 562 386 1100
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• 800 506 LABS (* 800 506 5227)

SGS Environmental Services Inc.
(continued)

LCS1	2-Butanone (MEK)	50	44.2	UGL	85.4	(0-130)
MBLK	2- Butanone (MEK)	ND	<5.0	UGL		
RPD_LCS	2-Butanone (MEK)	90.000	88.400	UGL	1.8	(0-20)
LCS1	c-Chlorotoluene	5	5.17	UGL	103.4	(70-130)
LCS2	c-Chlorotoluene	5	4.96	UGL	99.2	(70-130)
MBLK	c-Chlorotoluene	ND	<0.5	UGL		
RPD_LCS	c-Chlorotoluene	101.400	99.200	UGL	4.1	(0-20)
LCS1	p-Chlorotoluene	5	5.21	UGL	104.2	(70-130)
LCS2	p-Chlorotoluene	5	5.13	UGL	102.6	(70-130)
MBLK	p-Chlorotoluene	ND	<0.5	UGL		
RPD_LCS	p-Chlorotoluene	104.200	102.600	UGL	1.5	(0-20)
LCS1	4-Methyl-2-Pentanone (MIBK)	50	44.8	UGL	89.6	(70-130)
LCS2	4-Methyl-2-Pentanone (MIBK)	50	44.7	UGL	89.4	(70-130)
MBLK	4-Methyl-2-Pentanone (MIBK)	ND	<5.0	UGL		
RPD_LCS	4-Methyl-2-Pentanone (MIBK)	89.600	89.400	UGL	0.2	(0-20)
LCS1	Benzene	5	5.20	UGL	104.0	(70-130)
LCS2	Benzene	5	5.19	UGL	103.8	(70-130)
MBLK	Benzene	ND	<0.5	UGL		
RPD_LCS	Benzene	104.000	103.800	UGL	0.2	(0-20)
LCS1	Bromobenzene	5	5.55	UGL	111.0	(70-130)
LCS2	Bromobenzene	5	5.36	UGL	107.2	(70-130)
MBLK	Bromobenzene	ND	<0.5	UGL		
RPD_LCS	Bromobenzene	111.000	107.200	UGL	3.5	(0-20)
LCS1	Bromomethane (Methyl Bromide)	5	5.02	UGL	116.4	(70-130)
LCS2	Bromomethane (Methyl Bromide)	5	5.58	UGL	111.6	(70-130)
MBLK	Bromomethane (Methyl Bromide)	ND	<0.5	UGL		
RPD_LCS	Bromomethane (Methyl Bromide)	116.400	111.600	UGL	4.2	(0-20)
LCS1	Bromoethane	5	4.76	UGL	95.2	(70-130)
LCS2	Bromoethane	5	4.72	UGL	94.4	(70-130)
MBLK	Bromoethane	ND	<0.5	UGL		
RPD_LCS	Bromoethane	95.200	94.400	UGL	0.8	(0-20)
LCS1	cis-1,2-Dichloroethylene	5	5.13	UGL	103.6	(70-130)
LCS2	cis-1,2-Dichloroethylene	5	5.07	UGL	101.4	(70-130)
MBLK	cis-1,2-Dichloroethylene	ND	<0.5	UGL		
RPD_LCS	cis-1,2-Dichloroethylene	102.600	101.400	UGL	1.2	(0-20)
LCS1	Chlorobenzene	5	5.00	UGL	100.0	(70-130)

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Laboratory
QC Report
#186139

750 Royal Oaks Drive, Suite 100
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SGS Environmental Services Inc.
(continued)

LCS2	Chlorobenzene	5	4.84	UGL	96.6	{ 70-130 }
MBLK	Chlorobenzene	ND	<0.5	UGL		
RPD_LCS	Chlorobenzene	100.000	96.800	UGL	3.3	{ 0-20 }
LCS1	Carbon Tetrachloride	5	5.23	UGL	104.6	{ 70-130 }
LCS2	Carbon Tetrachloride	5	5.09	UGL	101.8	{ 70-130 }
MBLK	Carbon Tetrachloride	ND	<0.5	UGL		
RPD_LCS	Carbon Tetrachloride	104.600	101.800	UGL	2.7	{ 0-20 }
LCS1	cis-1,3-Dichloropropene	5	3.99	UGL	79.8	{ 70-130 }
LCS2	cis-1,3-Dichloropropene	5	4.00	UGL	80.0	{ 70-130 }
MBLK	cis-1,3-Dichloropropene	ND	<0.5	UGL		
PPD_LCS	cis-1,3-Dichloropropene	79.800	80.000	UGL	0.1	{ 0-20 }
LCS1	Bromoform	5	4.98	UGL	99.6	{ 70-130 }
LCS2	Bromoform	5	4.97	UGL	99.4	{ 70-130 }
MBLK	Bromoform	ND	<0.5	UGL		
RPD_LCS	Bromoform	99.600	99.400	UGL	0.2	{ 0-20 }
LCS1	Chloroform (Trichloromethane)	5	5.47	UGL	109.4	{ 70-130 }
LCS2	Chloroform (Trichloromethane)	5	5.36	UGL	107.2	{ 70-130 }
MBLK	Chloroform (Trichloromethane)	ND	<0.5	UGL		
RPD_LCS	Chloroform (Trichloromethane)	109.400	107.200	UGL	2.0	{ 0-20 }
LCS1	Bromochloromethane	5	5.49	UGL	109.8	{ 70-130 }
LCS2	Bromochloromethane	5	5.34	UGL	106.8	{ 70-130 }
MBLK	Bromochloromethane	ND	<0.5	UGL		
RPD_LCS	Bromochloromethane	109.800	106.800	UGL	2.8	{ 0-20 }
LCS1	Chloroethane	5	5.45	UGL	109.0	{ 70-130 }
LCS2	Chloroethane	5	5.38	UGL	107.6	{ 70-130 }
MBLK	Chloroethane	ND	<0.5	UGL		
RPD_LCS	Chloroethane	109.000	107.600	UGL	1.3	{ 0-30 }
LCS1	Chloromethane (Methyl Chloride)	5	5.51	UGL	110.2	{ 70-130 }
LCS2	Chloromethane (Methyl Chloride)	5	5.38	UGL	107.6	{ 70-130 }
MBLK	Chloromethane (Methyl Chloride)	ND	<0.5	UGL		
RPD_LCS	Chloromethane (Methyl Chloride)	110.200	107.600	UGL	2.4	{ 0-20 }
LCS1	Chlorodibromomethane	5	4.72	UGL	94.4	{ 70-130 }
LCS2	Chlorodibromomethane	5	4.78	UGL	95.6	{ 70-130 }
MBLK	Chlorodibromomethane	ND	<0.5	UGL		
RPD_LCS	Chlorodibromomethane	94.400	95.600	UGL	1.3	{ 0-20 }
LCS1	Dibromomethane	5	5.47	UGL	109.4	{ 70-130 }

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Laboratory
QC Report
#186139

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• 800 566 LABS (1 800 566 5227)

SGS Environmental Services Inc.
(continued)

LCS2	Dibromomethane	5	5.45	UGL	109.0	{ 70-130 }
MBLK	Dibromomethane	ND	<0.5	UGL		
RPD_LCS	Dibromomethane	109.400	109.000	UGL	0.4	{ 0-20 }
LCS1	Bromodichloromethane	5	4.73	UGL	94.6	{ 70-130 }
LCS2	Bromodichloromethane	5	4.74	UGL	94.8	{ 70-130 }
MBLK	Bromodichloromethane	ND	<0.5	UGL		
RPD_LCS	Bromodichloromethane	94.600	94.800	UGL	0.2	{ 0-20 }
LCS1	Dichloromethane	5	5.13	UGL	102.6	{ 70-130 }
LCS2	Dichloromethane	5	5.04	UGL	100.8	{ 70-130 }
MBLK	Dichloromethane	ND	<0.5	UGL		
RPD_LCS	Dichloromethane	102.600	100.800	UGL	1.8	{ 0-20 }
LCS1	Di-isopropyl ether	5	4.15	UGL	83.0	{ 70-130 }
LCS2	Di-isopropyl ether	5	4.19	UGL	83.9	{ 70-130 }
MBLK	Di-isopropyl ether	ND	<3.0	UGL		
RPD_LCS	Di-isopropyl ether	83.000	83.800	UGL	1.0	{ 0-20 }
LCS1	Ethyl benzene	5	4.73	UGL	94.6	{ 70-130 }
LCS2	Ethyl benzene	5	4.58	UGL	91.6	{ 70-130 }
MBLK	Ethyl benzene	ND	<0.5	UGL		
RPD_LCS	Ethyl benzene	94.600	91.600	UGL	3.2	{ 0-20 }
LCS1	Dichlorodifluoromethane	5	5.21	UGL	104.2	{ 70-130 }
LCS2	Dichlorodifluoromethane	5	5.03	UGL	100.6	{ 70-130 }
MBLK	Dichlorodifluoromethane	ND	<0.5	UGL		
RPD_LCS	Dichlorodifluoromethane	104.200	100.600	UGL	3.5	{ 0-20 }
LCS1	Fluorotrichloromethane-Freon11	5	6.10	UGL	122.0	{ 70-130 }
LCS2	Fluorotrichloromethane-Freon11	5	5.98	UGL	119.6	{ 70-130 }
MBLK	Fluorotrichloromethane-Freon11	ND	<0.5	UGL		
RPD_LCS	Fluorotrichloromethane-Freon11	122.000	119.600	UGL	2.0	{ 0-20 }
LCS1	Hexachlorobutadiene	5	5.02	UGL	100.4	{ 70-130 }
LCS2	Hexachlorobutadiene	5	5.00	UGL	100.0	{ 70-130 }
MBLK	Hexachlorobutadiene	ND	<0.5	UGL		
RPD_LCS	Hexachlorobutadiene	100.400	100.000	UGL	0.4	{ 0-20 }
LCS1	Isopropylbenzene	5	4.73	UGL	94.6	{ 70-130 }
LCS2	Isopropylbenzene	5	4.77	UGL	95.4	{ 70-130 }
MBLK	Isopropylbenzene	ND	<0.5	UGL		
RPD_LCS	Isopropylbenzene	94.600	95.400	UGL	0.8	{ 0-20 }
LCS1	m-Dichlorobenzene (1,3-DCB)	5	5.53	UGL	110.6	{ 70-130 }

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Laboratory
QC Report
#186139

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SGS Environmental Services Inc.
(continued)

LCS2	m-Dichlorobenzene (1,3-DCB)	5	5.41	UGL	108.2	{ 70-130 }
MBLK	m-Dichlorobenzene (1,3-DCB)	ND	<0.5	UGL		
RPD_LCS	m-Dichlorobenzene (1,3-DCB)	110.600	108.200	UGL	2.2	{ 0-20 }
LCS1	m,p-Xylenes	10	9.68	UGL	96.8	{ 70-130 }
LCS2	m,p-Xylenes	10	9.45	UGL	94.5	{ 70-130 }
MBLK	m,p-Xylenes	ND	<0.5	UGL		
RPD_LCS	m,p-Xylenes	96.600	94.500	UGL	2.4	{ 0-20 }
LCS1	Methyl Tert-butyl ether (MTBE)	5	4.43	UGL	88.6	{ 70-130 }
LCS2	Methyl Tert-butyl ether (MTBE)	5	4.56	UGL	91.2	{ 70-130 }
MBLK	Methyl Tert-butyl ether (MTBE)	ND	<0.5	UGL		
RPD_LCS	Methyl Tert-butyl ether (MTBE)	88.600	91.200	UGL	2.9	{ 0-20 }
LCS1	Naphthalene	5	4.14	UGL	82.8	{ 70-130 }
LCS2	Naphthalene	5	4.05	UGL	81.0	{ 70-130 }
MBLK	Naphthalene	ND	<0.5	UGL		
RPD_LCS	Naphthalene	82.800	81.000	UGL	2.2	{ 0-20 }
LCS1	n-Butylbenzene	5	4.33	UGL	86.6	{ 70-130 }
LCS2	n-Butylbenzene	5	4.09	UGL	81.8	{ 70-130 }
MBLK	n-Butylbenzene	ND	<0.5	UGL		
RPD_LCS	n-Butylbenzene	86.600	81.800	UGL	5.7	{ 0-20 }
LCS1	n-Propylbenzene	5	4.94	UGL	98.8	{ 70-130 }
LCS2	n-Propylbenzene	5	4.78	UGL	95.6	{ 70-130 }
MBLK	n-Propylbenzene	ND	<0.5	UGL		
RPD_LCS	n-Propylbenzene	98.800	95.600	UGL	1.0	{ 0-20 }
LCS1	o-Xylene	5	4.55	UGL	91.0	{ 70-130 }
LCS2	o-Xylene	5	4.44	UGL	88.8	{ 70-130 }
MBLK	o-Xylene	ND	<0.5	UGL		
RPD_LCS	o-Xylene	91.000	88.600	UGL	2.4	{ 0-20 }
LCS1	o-Dichlorobenzene (1,2-DCB)	5	5.23	UGL	104.6	{ 70-130 }
LCS2	o-Dichlorobenzene (1,2-DCB)	5	5.07	UGL	101.4	{ 70-130 }
MBLK	o-Dichlorobenzene (1,2-DCB)	ND	<0.5	UGL		
RPD_LCS	o-Dichlorobenzene (1,2-DCB)	104.600	101.400	UGL	3.1	{ 0-20 }
LCS1	Tetrachloroethylene (PCE)	5	5.50	UGL	110.0	{ 70-130 }
LCS2	Tetrachloroethylene (PCE)	5	5.45	UGL	105.0	{ 70-130 }
MBLK	Tetrachloroethylene (PCE)	ND	<0.5	UGL		
RPD_LCS	Tetrachloroethylene (PCE)	110.000	109.000	UGL	0.9	{ 0-20 }
LCS1	p-Isopropyltoluene	5	4.33	UGL	86.6	{ 70-130 }

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are advisory only, unless otherwise specified in the method.



Laboratory
QC Report
#186139

750 Royal Oaks Drive Suite 700
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1-800-566-LABS (1-800-566-5227)

SGS Environmental Services Inc.
(continued)

LCS2	p-Isopropyltoluene	5	4.12	UGL	62.4	(70-130)
MBLK	p-Isopropyltoluene	ND	<0.5	UGL		
RPD_LCS	p-Isopropyltoluene	86.500	87.130	UGL	5.0	(0-20)
LCS1	sec-Butylbenzene	5	4.71	UGL	94.2	(70-130)
LCS2	sec-Butylbenzene	5	4.58	UGL	91.6	(70-130)
MBLK	sec-Butylbenzene	ND	<0.5	UGL		
RPD_LCS	sec-Butylbenzene	94.200	91.600	UGL	2.8	(0-20)
LCS1	Styrene	5	4.59	UGL	91.8	(70-130)
LCS2	Styrene	5	4.50	UGL	90.3	(70-130)
MBLK	Styrene	ND	<0.5	UGL		
RPD_LCS	Styrene	91.300	90.000	UGL	2.0	(0-20)
LCS1	1,2-dichloroethane-d4	100	118	IR	118.0	(70-130)
LCS2	1,2-dichloroethane-d4	100	120	IR	120.0	(70-130)
MBLK	1,2-dichloroethane-d4	100	113	IR	113.0	
RPD_LCS	1,2-dichloroethane-d4	118.000	120.000	IR	1.7	(0-20)
LCS1	Toluene-d8	100	98	IR	98.0	(70-130)
LCS2	Toluene-d8	100	99	IR	99.0	(70-130)
MBLK	Toluene-d8	100	96	IR	96.0	
RPD_LCS	Toluene-d8	98.000	99.000	IR	1.0	(0-20)
LCS1	4-Bromofluorobenzene	100	97	IR	97.0	(70-130)
LCS2	4-Bromofluorobenzene	100	98	IR	98.0	(70-130)
MBLK	4-Bromofluorobenzene	100	105	IR	105.0	
RPD_LCS	4-Bromofluorobenzene	97.000	98.000	IR	1.0	(0-20)
LCS1	trans-1,2-Dichloroethylene	5	5.42	UGL	108.4	(70-130)
LCS2	trans-1,2-Dichloroethylene	5	5.07	UGL	101.4	(70-130)
MBLK	trans-1,2-Dichloroethylene	ND	<0.5	UGL		
RPD_LCS	trans-1,2-Dichloroethylene	108.400	101.400	UGL	6.7	(0-20)
LCS1	tert-amyl Methyl Ether	5	4.60	UGL	92.0	(70-130)
LCS2	tert-amyl Methyl Ether	5	4.60	UGL	92.0	(70-130)
MBLK	tert-amyl Methyl Ether	ND	<3.0	UGL		
RPD_LCS	tert-amyl Methyl Ether	92.000	92.000	UGL	0.0	(0-20)
LCS1	tert-Butyl Ethyl Ether	5	4.25	UGL	85.0	(70-110)
LCS2	tert-Butyl Ethyl Ether	5	4.33	UGL	86.6	(70-110)
MBLK	tert-Butyl Ethyl Ether	ND	<3.0	UGL		
RPD_LCS	tert-Butyl Ethyl Ether	85.000	86.600	UGL	1.9	(0-20)
LCS1	tert-Butylbenzene	5	4.19	UGL	87.8	(70-130)

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Laboratory
QC Report
#186139

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SGS Environmental Services Inc.
(continued)

LCS2	tert Butylbenzene	5	4.17	UGL	63.4	(70-130)
MBLK	tert-Butylbenzene	ND	<0.5	UGL		
RPD_LCS	tert-Butylbenzene	87.800	81.400	UGL	5.1	(0-20)
LCS1	Trichloroethylene (TCE)	5	5.24	UGL	104.8	(70-130)
LCS2	Trichloroethylene (TCE)	5	5.20	UGL	104.0	(70-130)
MBLK	Trichloroethylene (TCE)	ND	<0.5	UGL		
RPD_LCS	Trichloroethylene (TCE)	104.800	104.000	UGL	0.8	(0-20)
LCS1	Trichlorotrifluoroethane/Freon	5	5.64	UGL	112.8	(70-130)
LCS2	Trichlorotrifluoroethane/Freon	5	5.47	UGL	109.4	(70-130)
MBLK	Trichlorotrifluoroethane/Freon	ND	<0.5	UGL		
RPD_LCS	Trichlorotrifluoroethane/Freon	112.800	109.400	UGL	3.1	(0-20)
LCS1	trans-1,3-Dichloropropene	5	4.15	UGL	83.0	(70-130)
LCS2	trans-1,3-Dichloropropene	5	4.15	UGL	83.0	(70-130)
MBLK	trans-1,3-Dichloropropene	ND	<0.5	UGL		
RPD_LCS	trans-1,3-Dichloropropene	83.000	83.000	UGL	0.0	(0-20)
LCS1	Toluene	5	5.07	UGL	101.4	(70-130)
LCS2	Toluene	5	5.03	UGL	100.6	(70-130)
MBLK	Toluene	ND	<0.5	UGL		
RPD_LCS	Toluene	101.400	100.600	UGL	0.8	(0-20)
LCS1	Vinyl chloride (VC)	5	5.12	UGL	102.4	(70-130)
LCS2	Vinyl chloride (VC)	5	5.00	UGL	100.0	(70-130)
MBLK	Vinyl chloride (VC)	ND	<0.1	UGL		
RPD_LCS	Vinyl chloride (VC)	102.400	100.000	UGL	2.4	(0-20)

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