

3R – 312

2003 AGWMR

08 / 31 / 2004



188 County Road 4900
Bloomfield, NM 87413
(505) 634-4956 Phone
(505) 632-4780 Fax

August 31, 2004

Mr. William Olson
Hydrologist
NM Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

RE: 2003 GROUND WATER SUMMARY REPORT

Dear Bill:

Enclosed for your review is the Williams 2003 Ground Water Summary Report. The report provides results of ground water monitoring at several sites in the San Juan Basin historically impacted from the use of unlined surface impoundments. The report includes those sites where monitored natural attenuation is ongoing. Work at these sites continues as previously communicated.

Thank you for taking the time to review this report. If you have any questions or need other information, please contact me or Jim Struhs at 505-634-4956.

Respectfully,

A handwritten signature in black ink, appearing to read "Mark Harvey", written over a horizontal line.

Mark Harvey
Project Coordinator

Enclosure – 2003 Ground Water Summary Report

Cc: Bill Liess, BLM Farmington Office

Site Summary Report

Site Name: Dogie East Pit

Reporting Period: 2003

Location: Unit D, Sec 4, Twn 25N, Rng 6W

Canyon: Largo

Operator: Williams

Vulnerable Class: original

OCD Ranking: 40

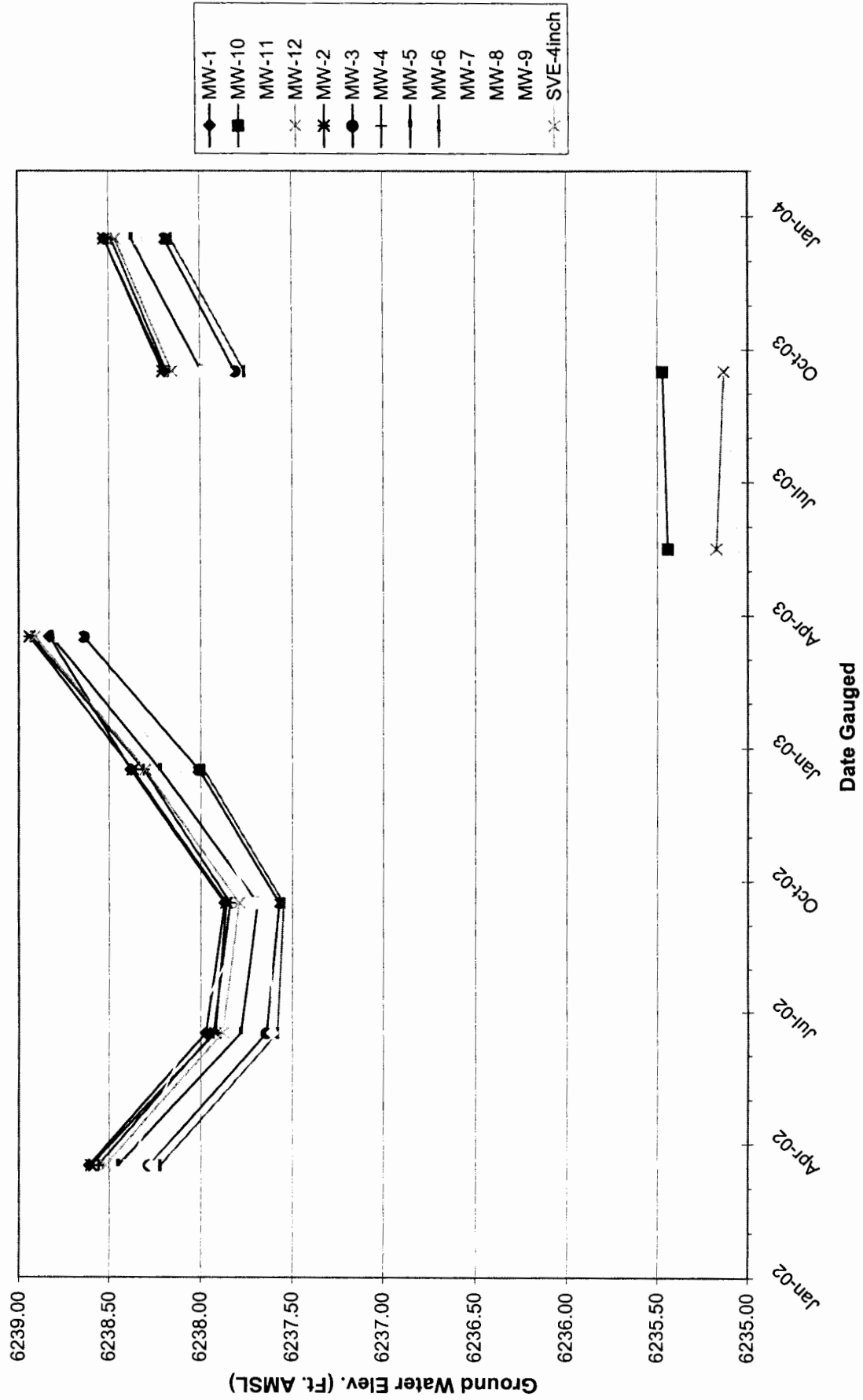
Lead Agency: NMOCD

Status Narrative

This site has nine monitoring wells installed in the original project area located at the northeast corner of the compressor station. To date, twenty-one quarters of ground water monitoring have been completed. Source area well MW-2 has demonstrated six consecutive quarters of BTEX concentrations below NMWQCC standards. In addition, the 4-inch SVE pilot well, which is also located within the source area, had no detectable BTEX during the last six quarters. Monitoring well MW-3 continues to contain elevated levels of BTEX ranging from 870 ppb to 3230 ppb. BTEX concentrations in well MW-5 were below the cleanup standards for all four quarters. Well MW-7, located downgradient of well MW-5 showed an increase in BTEX levels from the prior year. Cross-gradient well MW-8 contained no detectable concentrations of BTEX.

Accumulations of LNAPL in well MW-6, discovered for the first time in the third quarter of last year, continued to be recovered during this year. To date, approximately 2.5-liters of LNAPL have been removed. Sentinel well MW-9 had no detectable concentrations of BTEX during the year. A summary of the analytical results and copies of the laboratory analytical reports are included.

Ground water generally flowed to the west-northwest at an average hydraulic gradient of 0.002 throughout the year. Figure 2 shows the potentiometric surface for each of the quarterly sampling events. The attached hydrograph shows the seasonal variation in water-table elevations.

[illegible]

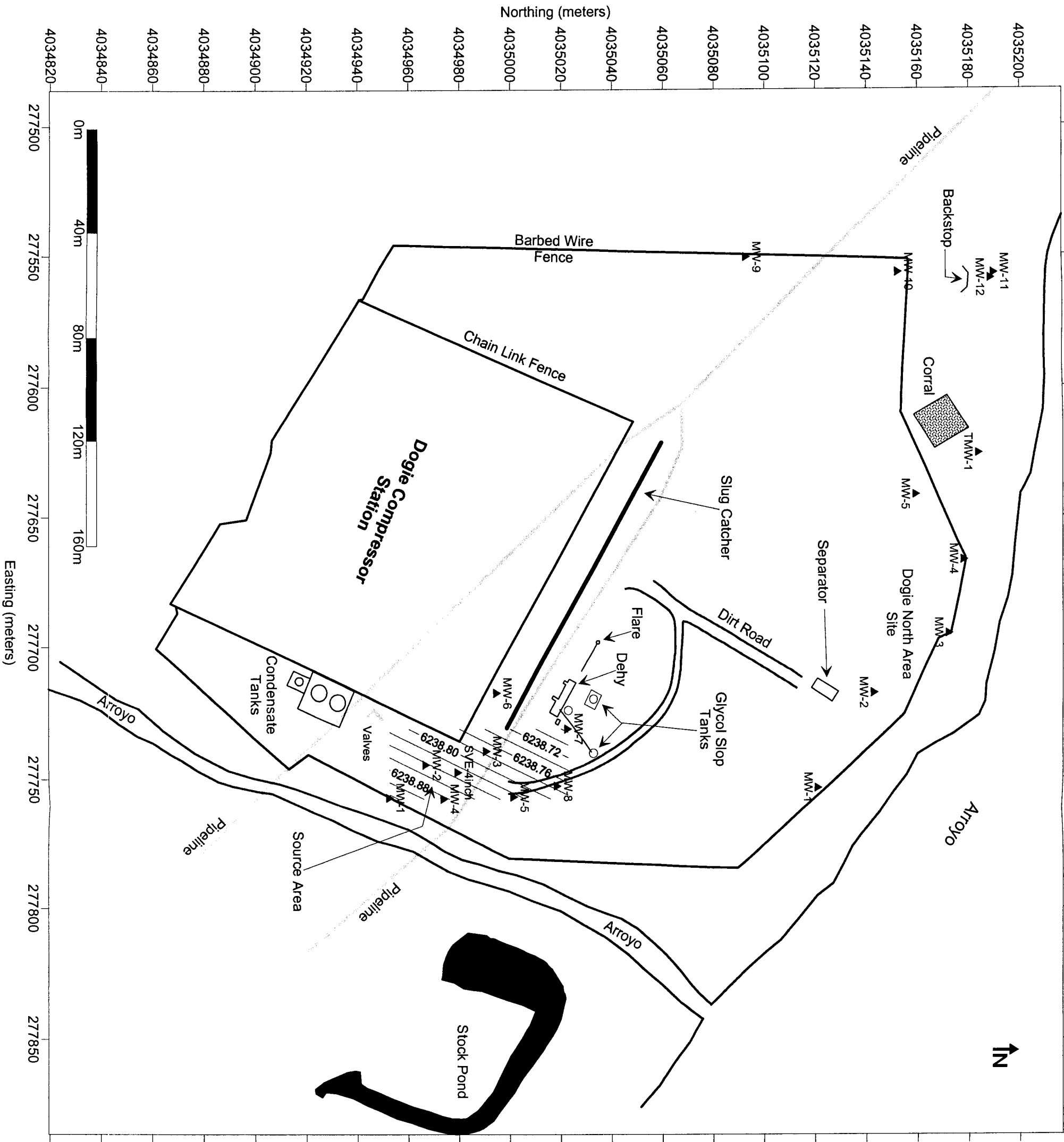


Figure 2
Potentiometric
Surface Map
Dogie Compressor Station (East Site)
(March 25, 2003)

LEGEND	
MW-2	Monitoring Well
5585.20	Ground Water Elevation (ft. AMSL)

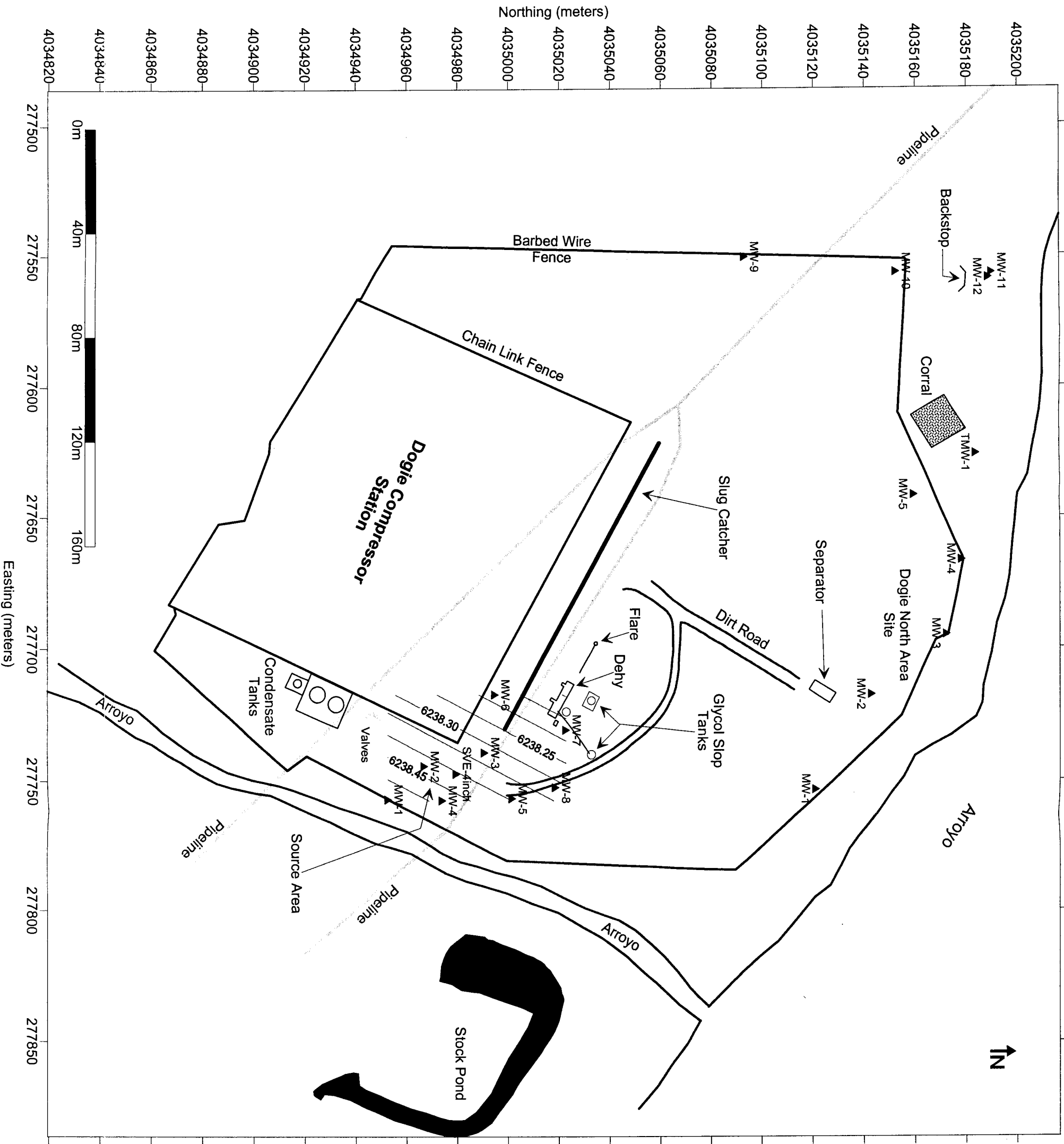


Figure 2
Potentiometric
Surface Map
Dogie Compressor Station (East Site)
(December 17, 2003)

LEGEND	
MW-2 ▲	Monitoring Well
— 5585.20 —	Ground Water Elevation (ft. AMSL)

Analytical Data Summary

Site Name:
Dogie East Pit

Reporting Period:
1/1/03 To 12/31/03

Well ID	Sample Date	Sample ID	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene (Total) ug/l
MW-10						
	5/28/03	131428MAY03	ND	ND	ND	ND
	9/23/03	134123SEP03	ND	ND	ND	ND
MW-11						
	5/28/03	132628MAY03	ND	ND	ND	ND
MW-12						
	5/28/03	134128MAY03	ND	ND	ND	ND
MW-2						
	3/25/03	163625MAR03	ND	ND	ND	ND
	5/28/03	101028MAY03	ND	ND	ND	7.3
	9/23/03	123323SEP03	7.7	ND	ND	ND
	12/17/03	114717DEC03	ND	ND	ND	ND
MW-3						
	3/25/03	162625MAR03	180	ND	180	510
	5/28/03	104528MAY03	180	970	380	1700
	9/23/03	124823SEP03	200	19.	530	1600
	12/17/03	121317DEC03	260	24.	290	800
MW-4						
	3/25/03	160625MAR03	7.7	8.4	ND	32.
	5/28/03	102628MAY03	72.	3.4	ND	27.
	9/23/03	124023SEP03	23.	130	5.9	59.
	12/17/03	120817DEC03	ND	ND	ND	5.1
MW-5						
	3/25/03	161525MAR03	9.9	7.6	32.	100
	5/28/03	103328MAY03	ND	ND	ND	280
	9/23/03	122323SEP03	2.2	17.	3.9	9.8
	12/17/03	115417DEC03	ND	64.	130	370
MW-7						
	3/25/03	161925MAR03	24.	ND	ND	ND
	5/28/03	104128MAY03	18.	ND	ND	ND
	9/23/03	121423SEP03	5.4	ND	ND	ND
	12/17/03	114017DEC03	28.	ND	ND	ND
MW-8						
	3/25/03	161125MAR03	ND	ND	ND	ND
	5/28/03	103728MAY03	ND	ND	ND	ND
	9/23/03	120623SEP03	ND	ND	ND	ND
	12/17/03	113217DEC03	ND	ND	ND	ND

Site Name:
Dogie East Pit

Reporting Period:
1/1/03 To 12/31/03

Well ID	Sample Date	Sample ID	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene (Total) ug/l
MW-9						
	5/28/03	130728MAY03	ND	ND	ND	ND
	9/23/03	133423SEP03	ND	ND	ND	ND
	12/17/03	123017DEC03	ND	ND	ND	ND
SVE-4inch						
	3/25/03	163125MAR03	ND	ND	ND	ND
	5/28/03	101928MAY03	ND	ND	ND	ND
	9/23/03	125523SEP03	ND	ND	ND	ND
	12/17/03	120117DEC03	ND	ND	ND	ND



Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

April 02, 2003

Mr. Jim Struhs
MILE HIGH ENVIRONMENTAL
188 C.R. 4900
Bloomfield, NM 87413

RE: Lab Project Number: 6068859
Client Project ID: SJB-GW DOGE

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on March 27, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Mary Jane Walls
mjwalls@pacelabs.com
Project Manager

Kansas/NELAP Certification Number E-10116

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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SAMPLE SUMMARY

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6068859
Client Project ID: SJB-GW D0GE

Project	Sample				
<u>Sample Number</u>	<u>Number</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
6068859-001	605939719	162625MAR03	Water	03/25/03 16:26	03/27/03 09:45
6068859-002	605939727	161125MAR03	Water	03/25/03 16:11	03/27/03 09:45
6068859-003	605939735	161525MAR03	Water	03/25/03 16:15	03/27/03 09:45
6068859-004	605939743	161925MAR03	Water	03/25/03 16:19	03/27/03 09:45
6068859-005	605939750	163625MAR03	Water	03/25/03 16:36	03/27/03 09:45
6068859-006	605939768	163125MAR03	Water	03/25/03 16:31	03/27/03 09:45

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Lab Project Number: 6068859
Client Project ID: SJB-GW D0GE

Lab Sample No: 605939719
Client Sample ID: 162625MAR03

Project Sample Number: 6068859-001
Matrix: Water

Date Collected: 03/25/03 16:26
Date Received: 03/27/03 09:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	180	ug/l	5.0	2.5	04/02/03 08:42 SHF		71-43-2		
Ethylbenzene	180	ug/l	5.0	2.5	04/02/03 08:42 SHF		100-41-4		
Toluene	ND	ug/l	5.0	2.5	04/02/03 08:42 SHF		108-88-3		
Xylene (Total)	510	ug/l	12.	2.5	04/02/03 08:42 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		1.0	04/02/03 08:42 SHF		98-08-8		

Date: 04/02/03

Page: 1 of 9

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Lab Project Number: 6068859
Client Project ID: SJB-GW D0GE

Lab Sample No: 605939727 Project Sample Number: 6068859-002 Date Collected: 03/25/03 16:11
Client Sample ID: 161125MAR03 Matrix: Water Date Received: 03/27/03 09:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	04/01/03 18:43 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/01/03 18:43 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	04/01/03 18:43 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	04/01/03 18:43 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	04/01/03 18:43 SHF		98-08-8		

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Lab Project Number: 6068859

Client Project ID: SJB-GW DOGE

Lab Sample No: 605939735
Client Sample ID: 161525MAR03

Project Sample Number: 6068859-003

Matrix: Water

Date Collected: 03/25/03 16:15

Date Received: 03/27/03 09:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	9.9	ug/l	2.0	1.0	04/02/03 09:11 SHF		71-43-2		
Ethylbenzene	32.	ug/l	2.0	1.0	04/02/03 09:11 SHF		100-41-4		
Toluene	7.6	ug/l	2.0	1.0	04/02/03 09:11 SHF		108-88-3		
Xylene (Total)	100	ug/l	5.0	1.0	04/02/03 09:11 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		1.0	04/02/03 09:11 SHF		98-08-8		

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Lab Project Number: 6068859
Client Project ID: SJB-GW DOGE

Lab Sample No: 605939743 Project Sample Number: 6068859-004 Date Collected: 03/25/03 16:19
Client Sample ID: 161925MAR03 Matrix: Water Date Received: 03/27/03 09:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	24.	ug/l	2.0	1.0	04/01/03 19:41 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/01/03 19:41 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	04/01/03 19:41 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	04/01/03 19:41 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	105	%		1.0	04/01/03 19:41 SHF		98-08-8		

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Lab Project Number: 6068859

Client Project ID: SJB-GW DOGE

Lab Sample No: 605939750
Client Sample ID: 163625MAR03

Project Sample Number: 6068859-005
Matrix: Water

Date Collected: 03/25/03 16:36
Date Received: 03/27/03 09:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	04/01/03 20:10 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/01/03 20:10 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	04/01/03 20:10 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	04/01/03 20:10 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	04/01/03 20:10 SHF		98-08-8		

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Lab Project Number: 6068859
Client Project ID: SJB-GW DOGE

Lab Sample No: 605939768 Project Sample Number: 6068859-006 Date Collected: 03/25/03 16:31
Client Sample ID: 163125MAR03 Matrix: Water Date Received: 03/27/03 09:45

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	ND	ug/l	2.0	1.0	04/01/03 20:39 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/01/03 20:39 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	04/01/03 20:39 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	04/01/03 20:39 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	04/01/03 20:39 SHF		98-08-8		

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PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6068859
Client Project ID: SJB-GW DOGE

QC Batch: 141979
QC Batch Method: EPA 8021
Associated Lab Samples: 605939719 605939727 605939735 605939743 605939750 605939768

Analysis Method: EPA 8021
Analysis Description: Aromatic Volatile Organics

METHOD BLANK: 605950328
Associated Lab Samples: 605939719 605939727 605939735 605939743 605939750 605939768

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	2.0	
Ethylbenzene	ug/l	ND	2.0	
Toluene	ug/l	ND	2.0	
Xylene (Total)	ug/l	ND	5.0	
a,a,a-Trifluorotoluene (S)	%	106		

LABORATORY CONTROL SAMPLE: 605950336

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	21.91	110	85-120	
Ethylbenzene	ug/l	20.00	21.46	107	87-114	
Toluene	ug/l	20.00	22.12	111	87-114	
Xylene (Total)	ug/l	60.00	67.77	113	88-115	
a,a,a-Trifluorotoluene (S)				104	86-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605951128 605951136

Parameter	Units	605940535 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0	20.00	24.63	25.72	123	129	82-121	4	16	1,1
Ethylbenzene	ug/l	0.8061	20.00	22.55	23.31	109	112	84-114	3	14	
Toluene	ug/l	0	20.00	23.83	24.75	119	124	85-112	4	18	1,1
Xylene (Total)	ug/l	0.9963	60.00	68.01	71.17	112	117	83-115	5	16	1
a,a,a-Trifluorotoluene (S)						104	105	86-115			

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QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D) Laboratory Control Sample (Duplicate)
MS(D) Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
RPD Relative Percent Difference
(S) Surrogate
[1] The sample matrix affected the Matrix Spike and Matrix Spike Duplicate (MS/MSD) compound recovery. The successful recovery of the Laboratory Control Sample (LCS) demonstrates the analytical system was in control for this QA/QC sample group.

REPORT OF LABORATORY ANALYSIS

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Entered 8/15/03

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

June 09, 2003

Mr. Jim Struhs
MILE HIGH ENVIRONMENTAL
188 C.R. 4900
Bloomfield, NM 87413

RE: Lab Project Number: 6071175
Client Project ID: SJBGW-DOGE

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on June 5, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

For: Mary Jane Walls
mjwalls@pacelabs.com
Project Manager

Kansas/NELAP Certification Number E-10116

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6071175
Client Project ID: SJBGW-D0GE

Project Sample Number	Sample Number	Client Sample ID	Matrix	Date Collected	Date Received
6071175-001	606131530	103328MAY03	Water	05/28/03 10:33	06/05/03 09:15
6071175-002	606131548	103728MAY03	Water	05/28/03 10:37	06/05/03 09:15
6071175-003	606131555	131428MAY03	Water	05/28/03 13:14	06/05/03 09:15
6071175-004	606131563	104128MAY03	Water	05/28/03 10:41	06/05/03 09:15
6071175-005	606131571	102628MAY03	Water	05/28/03 10:26	06/05/03 09:15
6071175-006	606131589	101028MAY03	Water	05/28/03 10:10	06/05/03 09:15
6071175-007	606131597	130728MAY03	Water	05/28/03 13:07	06/05/03 09:15
6071175-008	606131605	104528MAY03	Water	05/28/03 10:45	06/05/03 09:15
6071175-009	606131613	101928MAY03	Water	05/28/03 10:19	06/05/03 09:15
6071175-010	606131621	132628MAY03	Water	05/28/03 13:26	06/05/03 09:15
6071175-011	606131639	134128MAY03	Water	05/28/03 13:41	06/05/03 09:15

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071175
Client Project ID: SJBGW-DOGE

Lab Sample No: 606131530 Project Sample Number: 6071175-001 Date Collected: 05/28/03 10:33
Client Sample ID: 103328MAY03 Matrix: Water Date Received: 06/05/03 09:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	100	50.0	06/06/03 15:21	ARF	71-43-2		
Ethylbenzene	ND	ug/l	100	50.0	06/06/03 15:21	ARF	100-41-4		
Toluene	ND	ug/l	100	50.0	06/06/03 15:21	ARF	108-88-3		
Xylene (Total)	280	ug/l	250	50.0	06/06/03 15:21	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	98	%		1.0	06/06/03 15:21	ARF	98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071175
Client Project ID: SJBGW-DOGE

Lab Sample No: 606131548 Project Sample Number: 6071175-002 Date Collected: 05/28/03 10:37
Client Sample ID: 103728MAY03 Matrix: Water Date Received: 06/05/03 09:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	ND	ug/l	2.0	1.0	06/06/03 15:51	ARF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/06/03 15:51	ARF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/06/03 15:51	ARF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	06/06/03 15:51	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	105	%		1.0	06/06/03 15:51	ARF	98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071175
Client Project ID: SJBGW-D0GE

Lab Sample No: 606131555 Project Sample Number: 6071175-003 Date Collected: 05/28/03 13:14
Client Sample ID: 131428MAY03 Matrix: Water Date Received: 06/05/03 09:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	ND	ug/l	2.0	1.0	06/06/03 16:21	ARF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/06/03 16:21	ARF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/06/03 16:21	ARF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	06/06/03 16:21	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	104	%		1.0	06/06/03 16:21	ARF	98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071175
Client Project ID: SJBGM-DOGE

Lab Sample No: 606131563 Project Sample Number: 6071175-004 Date Collected: 05/28/03 10:41
Client Sample ID: 104128MAY03 Matrix: Water Date Received: 06/05/03 09:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	18.	ug/l	2.0	1.0	06/06/03 16:51	ARF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/06/03 16:51	ARF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/06/03 16:51	ARF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	06/06/03 16:51	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	06/06/03 16:51	ARF	98-08-8		

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Lab Project Number: 6071175
Client Project ID: SJBGW-DOGE

Lab Sample No: 606131571 Project Sample Number: 6071175-005 Date Collected: 05/28/03 10:26
Client Sample ID: 102628MAY03 Matrix: Water Date Received: 06/05/03 09:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	72.	ug/l	2.0	1.0	06/09/03 09:33 ARF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/09/03 09:33 ARF		100-41-4		
Toluene	3.4	ug/l	2.0	1.0	06/09/03 09:33 ARF		108-88-3		
Xylene (Total)	27.	ug/l	5.0	1.0	06/09/03 09:33 ARF		1330-20-7		
a,a,a-Trifluorotoluene (S)	113	%		1.0	06/09/03 09:33 ARF		98-08-8		

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Lab Project Number: 6071175
Client Project ID: SJBGW-DOGE

Lab Sample No: 606131589 Project Sample Number: 6071175-006 Date Collected: 05/28/03 10:10
Client Sample ID: 101028MAY03 Matrix: Water Date Received: 06/05/03 09:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	ND	ug/l	2.0	1.0	06/06/03 17:51	ARF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/06/03 17:51	ARF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/06/03 17:51	ARF	108-88-3		
Xylene (Total)	7.3	ug/l	5.0	1.0	06/06/03 17:51	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		1.0	06/06/03 17:51	ARF	98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071175
Client Project ID: SJBGW-D0GE

Lab Sample No: 606131597 Project Sample Number: 6071175-007 Date Collected: 05/28/03 13:07
Client Sample ID: 130728MAY03 Matrix: Water Date Received: 06/05/03 09:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	06/06/03 18:21	ARF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/06/03 18:21	ARF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/06/03 18:21	ARF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	06/06/03 18:21	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	96	%		1.0	06/06/03 18:21	ARF	98-08-8		

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Lab Project Number: 6071175
Client Project ID: SJBGW-D0GE

Lab Sample No: 606131605
Client Sample ID: 104528MAY03

Project Sample Number: 6071175-008
Matrix: Water

Date Collected: 05/28/03 10:45
Date Received: 06/05/03 09:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	180	ug/l	100	50.0	06/06/03 18:50	ARF	71-43-2		
Ethylbenzene	380	ug/l	100	50.0	06/06/03 18:50	ARF	100-41-4		
Toluene	970	ug/l	100	50.0	06/06/03 18:50	ARF	108-88-3		
Xylene (Total)	1700	ug/l	250	50.0	06/06/03 18:50	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		1.0	06/06/03 18:50	ARF	98-08-8		

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Lab Project Number: 6071175
Client Project ID: SJBGW-DOGE

Lab Sample No: 606131613	Project Sample Number: 6071175-009	Date Collected: 05/28/03 10:19
Client Sample ID: 101928MAY03	Matrix: Water	Date Received: 06/05/03 09:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	06/06/03 19:20	ARF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/06/03 19:20	ARF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/06/03 19:20	ARF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	06/06/03 19:20	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	97	%		1.0	06/06/03 19:20	ARF	98-08-8	1	

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Lab Project Number: 6071175
Client Project ID: SJBGW-D0GE

Lab Sample No: 606131621
Client Sample ID: 132628MAY03

Project Sample Number: 6071175-010
Matrix: Water

Date Collected: 05/28/03 13:26
Date Received: 06/05/03 09:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	06/06/03 20:49 ARF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/06/03 20:49 ARF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/06/03 20:49 ARF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	06/06/03 20:49 ARF		1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	06/06/03 20:49 ARF		98-08-8		

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Lab Project Number: 6071175
Client Project ID: SJBGW-DOGE

Lab Sample No: 606131639 Project Sample Number: 6071175-011 Date Collected: 05/28/03 13:41
Client Sample ID: 134128MAY03 Matrix: Water Date Received: 06/05/03 09:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	06/06/03 21:19 ARF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/06/03 21:19 ARF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/06/03 21:19 ARF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	06/06/03 21:19 ARF		1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	06/06/03 21:19 ARF		98-08-8		

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PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
(S) Surrogate
[1] The sample pH was checked and found to be greater than 2.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6071175
Client Project ID: SJBGW-DOGE

QC Batch: 146400 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 606131530 606131548 606131555 606131563 606131571
606131589 606131597 606131605 606131613 606131621
606131639

METHOD BLANK: 606132967
Associated Lab Samples: 606131530 606131548 606131555 606131563 606131571 606131589 606131597
606131605 606131613 606131621 606131639

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	2.0	
Ethylbenzene	ug/l	ND	2.0	
Toluene	ug/l	ND	2.0	
Xylene (Total)	ug/l	ND	5.0	
a,a,a-Trifluorotoluene (S)	%	105		

LABORATORY CONTROL SAMPLE: 606132975

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	21.93	110	85-120	
Ethylbenzene	ug/l	20.00	21.45	107	87-114	
Toluene	ug/l	20.00	21.48	107	87-114	
Xylene (Total)	ug/l	60.00	65.59	109	88-115	
a,a,a-Trifluorotoluene (S)				102	86-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606133239 606133247

Parameter	Units	606131548 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0	20.00	21.45	20.80	107	104	82-121	3	16	
Ethylbenzene	ug/l	0	20.00	21.11	20.56	106	103	84-114	3	14	
Toluene	ug/l	0	20.00	20.93	20.13	105	101	85-112	4	18	
Xylene (Total)	ug/l	0.7257	60.00	64.86	62.82	107	104	83-115	3	16	
a,a,a-Trifluorotoluene (S)						108	107	86-115			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

October 06, 2003

Mr. Jim Struhs
MILE HIGH ENVIRONMENTAL
188 C.R. 4900
Bloomfield, NM 87413

RE: Lab Project Number: 6075065
Client Project ID: DOGE

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

For: Mary Jane Walls
mjwalls@pacelabs.com
Project Manager

Kansas/NELAP Certification Number E-10116

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6075065
Client Project ID: DOGE

Project Sample Number	Sample Number	Client Sample ID	Matrix	Date Collected	Date Received
6075065-001	606461770	123323SEP03	Water	09/23/03 12:33	09/26/03 08:55
6075065-002	606461788	124823SEP03	Water	09/23/03 12:48	09/26/03 08:55
6075065-003	606461796	124023SEP03	Water	09/23/03 12:40	09/26/03 08:55
6075065-004	606461804	122323SEP03	Water	09/23/03 12:23	09/26/03 08:55
6075065-005	606461812	121423SEP03	Water	09/23/03 12:14	09/26/03 08:55
6075065-006	606461820	120623SEP03	Water	09/23/03 12:06	09/26/03 08:55
6075065-007	606461838	133423SEP03	Water	09/23/03 13:34	09/26/03 08:55
6075065-008	606461846	134123SEP03	Water	09/23/03 13:41	09/26/03 08:55
6075065-009	606461861	125523SEP03	Water	09/23/03 12:55	09/26/03 08:55

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075065
Client Project ID: D0GE

Project			Analysis		Analysis Description	Analytes Reported
<u>Sample Number</u>	<u>Sample No</u>	<u>Client Sample ID</u>	<u>Code</u>			
6075065-001	606461770	123323SEP03	8020	WPAC	Aromatic Volatile Organics	5
6075065-002	606461788	124823SEP03	8020	WPAC	Aromatic Volatile Organics	5
6075065-003	606461796	124023SEP03	8020	WPAC	Aromatic Volatile Organics	5
6075065-004	606461804	122323SEP03	8020	WPAC	Aromatic Volatile Organics	5
6075065-005	606461812	121423SEP03	8020	WPAC	Aromatic Volatile Organics	5
6075065-006	606461820	120623SEP03	8020	WPAC	Aromatic Volatile Organics	5
6075065-007	606461838	133423SEP03	8020	WPAC	Aromatic Volatile Organics	5
6075065-008	606461846	134123SEP03	8020	WPAC	Aromatic Volatile Organics	5
6075065-009	606461861	125523SEP03	8020	WPAC	Aromatic Volatile Organics	5

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Lab Project Number: 6075065

Client Project ID: D0GE

Lab Sample No: 606461770
Client Sample ID: 123323SEP03

Project Sample Number: 6075065-001

Matrix: Water

Date Collected: 09/23/03 12:33

Date Received: 09/26/03 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	7.7	ug/l	2.0	1.0	10/02/03 20:32	ARF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/02/03 20:32	ARF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/02/03 20:32	ARF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/02/03 20:32	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	98	%		1.0	10/02/03 20:32	ARF	98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075065
Client Project ID: DOGE

Lab Sample No: 606461788 Project Sample Number: 6075065-002 Date Collected: 09/23/03 12:48
Client Sample ID: 124823SEP03 Matrix: Water Date Received: 09/26/03 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	200	ug/l	10.	5.0	10/02/03 20:59	ARF	71-43-2		
Ethylbenzene	530	ug/l	10.	5.0	10/02/03 20:59	ARF	100-41-4		
Toluene	19.	ug/l	10.	5.0	10/02/03 20:59	ARF	108-88-3		
Xylene (Total)	1600	ug/l	25.	5.0	10/02/03 20:59	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	97	%		1.0	10/02/03 20:59	ARF	98-08-8		

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Lab Project Number: 6075065
Client Project ID: D06E

Lab Sample No: 606461796 Project Sample Number: 6075065-003 Date Collected: 09/23/03 12:40
Client Sample ID: 124023SEP03 Matrix: Water Date Received: 09/26/03 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	23.	ug/l	2.0	1.0	10/02/03 21:25	ARF	71-43-2		
Ethylbenzene	5.9	ug/l	2.0	1.0	10/02/03 21:25	ARF	100-41-4		
Toluene	130	ug/l	2.0	1.0	10/02/03 21:25	ARF	108-88-3		
Xylene (Total)	59.	ug/l	5.0	1.0	10/02/03 21:25	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		1.0	10/02/03 21:25	ARF	98-08-8		

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Lab Project Number: 6075065
Client Project ID: D0GE

Lab Sample No: 606461804 Project Sample Number: 6075065-004 Date Collected: 09/23/03 12:23
Client Sample ID: 122323SEP03 Matrix: Water Date Received: 09/26/03 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	2.2	ug/l	2.0	1.0	10/03/03 12:27	ARF	71-43-2		
Ethylbenzene	3.9	ug/l	2.0	1.0	10/03/03 12:27	ARF	100-41-4		
Toluene	17.	ug/l	2.0	1.0	10/03/03 12:27	ARF	108-88-3		
Xylene (Total)	9.8	ug/l	5.0	1.0	10/03/03 12:27	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	10/03/03 12:27	ARF	98-08-8		

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Lab Project Number: 6075065
Client Project ID: D0GE

Lab Sample No: 606461812 Project Sample Number: 6075065-005 Date Collected: 09/23/03 12:14
Client Sample ID: 121423SEP03 Matrix: Water Date Received: 09/26/03 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	5.4	ug/l	2.0	1.0	10/02/03 22:18	ARF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/02/03 22:18	ARF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/02/03 22:18	ARF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/02/03 22:18	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		1.0	10/02/03 22:18	ARF	98-08-8		

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Lab Project Number: 6075065
Client Project ID: D0GE

Lab Sample No: 606461820 Project Sample Number: 6075065-006 Date Collected: 09/23/03 12:06
Client Sample ID: 120623SEP03 Matrix: Water Date Received: 09/26/03 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	10/02/03 22:45 ARF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/02/03 22:45 ARF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/02/03 22:45 ARF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/02/03 22:45 ARF		1330-20-7		
a,a,a-Trifluorotoluene (S)	97	%		1.0	10/02/03 22:45 ARF		98-08-8		

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Lab Project Number: 6075065
Client Project ID: DOGE

Lab Sample No: 606461838 Project Sample Number: 6075065-007 Date Collected: 09/23/03 13:34
Client Sample ID: 133423SEP03 Matrix: Water Date Received: 09/26/03 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	10/02/03 23:11	ARF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/02/03 23:11	ARF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/02/03 23:11	ARF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/02/03 23:11	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		1.0	10/02/03 23:11	ARF	98-08-8		

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Lab Project Number: 6075065
Client Project ID: D06E

Lab Sample No: 606461846 Project Sample Number: 6075065-008 Date Collected: 09/23/03 13:41
Client Sample ID: 134123SEP03 Matrix: Water Date Received: 09/26/03 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	10/03/03 00:57	ARF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/03/03 00:57	ARF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/03/03 00:57	ARF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/03/03 00:57	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		1.0	10/03/03 00:57	ARF	98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075065
Client Project ID: DOGE

Lab Sample No: 606461861 Project Sample Number: 6075065-009 Date Collected: 09/23/03 12:55
Client Sample ID: 125523SEP03 Matrix: Water Date Received: 09/26/03 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	10/03/03 01:24	ARF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/03/03 01:24	ARF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/03/03 01:24	ARF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/03/03 01:24	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	97	%		1.0	10/03/03 01:24	ARF	98-08-8		

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PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
(S) Surrogate

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6075065
Client Project ID: DOGE

QC Batch: 154332 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 606461770 606461788 606461796 606461804 606461812
606461820 606461838 606461846 606461861

METHOD BLANK: 606473387
Associated Lab Samples: 606461770 606461788 606461796 606461804 606461812 606461820 606461838
606461846 606461861

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	2.0	
Ethylbenzene	ug/l	ND	2.0	
Toluene	ug/l	ND	2.0	
Xylene (Total)	ug/l	ND	5.0	
a,a,a-Trifluorotoluene (S)	%	101		

LABORATORY CONTROL SAMPLE: 606473395

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	18.71	94	85-120	
Ethylbenzene	ug/l	20.00	18.19	91	87-114	
Toluene	ug/l	20.00	19.52	98	87-114	
Xylene (Total)	ug/l	60.00	54.26	90	88-115	
a,a,a-Trifluorotoluene (S)				97	86-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606473957 606473965

Parameter	Units	606461697 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Footnotes
Benzene	ug/l	0	20.00	18.14	18.61	91	93	82-121	3	16	
Ethylbenzene	ug/l	0	20.00	18.39	18.58	92	93	84-114	1	14	
Toluene	ug/l	0	20.00	19.36	19.72	97	99	85-112	2	18	
Xylene (Total)	ug/l	0	60.00	54.29	54.47	90	91	83-115	0	16	
a,a,a-Trifluorotoluene (S)						98	98	86-115			

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QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D) Laboratory Control Sample (Duplicate)
MS(D) Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
RPD Relative Percent Difference
(S) Surrogate

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

December 23, 2003

Mr. Jim Struhs
MILE HIGH ENVIRONMENTAL
188 C.R. 4900
Bloomfield, NM 87413

RE: Lab Project Number: 6077818
Client Project ID: SJB-GW 12/17/03 02 DOGE

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on December 19, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Mary Jane Walls
Mary Jane.Walls@pacelabs.com
Project Manager

Kansas/NELAP Certification Number E-10116

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6077818

Client Project ID: SJB-GW 12/17/03 02 **DOGE**

Project	Sample				
<u>Sample Number</u>	<u>Number</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
6077818-001	606699189	123017DEC03	Water	12/17/03 12:30	12/19/03 10:20
6077818-002	606699197	114717DEC03	Water	12/17/03 11:47	12/19/03 10:20
6077818-003	606699205	121317DEC03	Water	12/17/03 12:13	12/19/03 10:20
6077818-004	606699213	120817DEC03	Water	12/17/03 12:08	12/19/03 10:20
6077818-005	606699221	115417DEC03	Water	12/17/03 11:54	12/19/03 10:20
6077818-006	606699239	113217DEC03	Water	12/17/03 11:32	12/19/03 10:20
6077818-007	606699247	120117DEC03	Water	12/17/03 12:01	12/19/03 10:20
6077818-008	606699254	114017DEC03	Water	12/17/03 11:40	12/19/03 10:20

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Lab Project Number: 6077818

Client Project ID: SJB-GW 12/17/03 02 *DOE*

Project			Analysis		Analytes Reported
Sample Number	Sample No	Client Sample ID	Code	Analysis Description	
6077818-001	606699189	123017DEC03	8020 WPAC	Aromatic Volatile Organics	5
6077818-002	606699197	114717DEC03	8020 WPAC	Aromatic Volatile Organics	5
6077818-003	606699205	121317DEC03	8020 WPAC	Aromatic Volatile Organics	5
6077818-004	606699213	120817DEC03	8020 WPAC	Aromatic Volatile Organics	5
6077818-005	606699221	115417DEC03	8020 WPAC	Aromatic Volatile Organics	5
6077818-006	606699239	113217DEC03	8020 WPAC	Aromatic Volatile Organics	5
6077818-007	606699247	120117DEC03	8020 WPAC	Aromatic Volatile Organics	5
6077818-008	606699254	114017DEC03	8020 WPAC	Aromatic Volatile Organics	5

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Lab Project Number: 6077818

Client Project ID: SJB-GW 12/17/03 02 **006E**

Lab Sample No: 606699189

Project Sample Number: 6077818-001

Date Collected: 12/17/03 12:30

Client Sample ID: 123017DEC03

Matrix: Water

Date Received: 12/19/03 10:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	ND	ug/l	2.0	1.0	12/22/03 14:32		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/22/03 14:32		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/22/03 14:32		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/22/03 14:32		1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	12/22/03 14:32		98-08-8		

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Lab Project Number: 6077818

Client Project ID: SJB-GW 12/17/03 02 *006E*

Lab Sample No: 606699197
Client Sample ID: 114717DEC03

Project Sample Number: 6077818-002

Matrix: Water

Date Collected: 12/17/03 11:47

Date Received: 12/19/03 10:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	ND	ug/l	2.0	1.0	12/22/03 14:59		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/22/03 14:59		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/22/03 14:59		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/22/03 14:59		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	12/22/03 14:59		98-08-8		

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Lab Project Number: 6077818

Client Project ID: SJB-GW 12/17/03 02 **006-E**

Lab Sample No: 606699205

Project Sample Number: 6077818-003

Date Collected: 12/17/03 12:13

Client Sample ID: 121317DEC03

Matrix: Water

Date Received: 12/19/03 10:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	260	ug/l	20.	10.0	12/22/03 20:28		71-43-2		
Ethylbenzene	290	ug/l	20.	10.0	12/22/03 20:28		100-41-4		
Toluene	24.	ug/l	20.	10.0	12/22/03 20:28		108-88-3		
Xylene (Total)	800	ug/l	50.	10.0	12/22/03 20:28		1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	12/22/03 20:28		98-08-8		

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Lab Project Number: 6077818

Client Project ID: SJB-GW 12/17/03 02 **006-E**

Lab Sample No: 606699213
Client Sample ID: 120817DEC03

Project Sample Number: 6077818-004

Matrix: Water

Date Collected: 12/17/03 12:08

Date Received: 12/19/03 10:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	ND	ug/l	2.0	1.0	12/22/03 15:54		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/22/03 15:54		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/22/03 15:54		108-88-3		
Xylene (Total)	5.1	ug/l	5.0	1.0	12/22/03 15:54		1330-20-7		
a,a,a-Trifluorotoluene (S)	107	%		1.0	12/22/03 15:54		98-08-8		

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Lab Project Number: 6077818

Client Project ID: SJB-GW 12/17/03 02 **DDGE**

Lab Sample No: 606699221
Client Sample ID: 115417DEC03

Project Sample Number: 6077818-005

Matrix: Water

Date Collected: 12/17/03 11:54

Date Received: 12/19/03 10:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	ND	ug/l	10.	5.0	12/23/03 08:09		71-43-2		
Ethylbenzene	130	ug/l	10.	5.0	12/23/03 08:09		100-41-4		
Toluene	64.	ug/l	10.	5.0	12/23/03 08:09		108-88-3		
Xylene (Total)	370	ug/l	25.	5.0	12/23/03 08:09		1330-20-7		
a,a,a-Trifluorotoluene (S)	0	%		1.0	12/23/03 08:09		98-08-8	1	

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Lab Project Number: 6077818

Client Project ID: SJB-GW 12/17/03 02 **006E**

Lab Sample No: 606699239
Client Sample ID: 113217DEC03

Project Sample Number: 6077818-006

Matrix: Water

Date Collected: 12/17/03 11:32

Date Received: 12/19/03 10:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	ND	ug/l	2.0	1.0	12/22/03 16:49		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/22/03 16:49		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/22/03 16:49		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/22/03 16:49		1330-20-7		
a,a,a-Trifluorotoluene (S)	109	%		1.0	12/22/03 16:49		98-08-8		

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Lab Project Number: 6077818

Client Project ID: SJB-GW 12/17/03 02 **006E**

Lab Sample No: 606699247
Client Sample ID: 120117DEC03

Project Sample Number: 6077818-007

Matrix: Water

Date Collected: 12/17/03 12:01

Date Received: 12/19/03 10:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	ND	ug/l	2.0	1.0	12/22/03 17:16		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/22/03 17:16		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/22/03 17:16		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/22/03 17:16		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	12/22/03 17:16		98-08-8		

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Lab Project Number: 6077818

Client Project ID: SJB-GW 12/17/03 02 **006-E**

Lab Sample No: 606699254

Project Sample Number: 6077818-008

Date Collected: 12/17/03 11:40

Client Sample ID: 114017DEC03

Matrix: Water

Date Received: 12/19/03 10:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	28.	ug/l	2.0	1.0	12/22/03 17:44		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/22/03 17:44		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/22/03 17:44		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/22/03 17:44		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	12/22/03 17:44		98-08-8		

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PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
(S) Surrogate
[1] Low surrogate recovery was confirmed as a matrix effect by a second analysis.

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QUALITY CONTROL DATA

Lab Project Number: 6077818
Client Project ID: SJB-GW 12/17/03 02

QC Batch: 159545
QC Batch Method: EPA 8021
Analysis Method: EPA 8021
Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 606699189 606699197 606699205 606699213 606699221
606699239 606699247 606699254

METHOD BLANK: 606701878
Associated Lab Samples: 606699189 606699197 606699205 606699213 606699221 606699239 606699247
606699254

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	2.0	
Ethylbenzene	ug/l	ND	2.0	
Toluene	ug/l	ND	2.0	
Xylene (Total)	ug/l	ND	5.0	
a,a,a-Trifluorotoluene (S)	%	101		

LABORATORY CONTROL SAMPLE: 606701886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	19.52	98	85-120	
Ethylbenzene	ug/l	20.00	20.12	101	87-114	
Toluene	ug/l	20.00	19.39	97	87-114	
Xylene (Total)	ug/l	60.00	61.32	102	88-115	
a,a,a-Trifluorotoluene (S)				102	86-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606704955 606704963

Parameter	Units	606699171 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	68.65	20.00	87.36	86.46	94	89	82-121	1	16	
Ethylbenzene	ug/l	0.5131	20.00	20.18	19.79	98	96	84-114	2	14	
Toluene	ug/l	0	20.00	19.55	19.36	98	97	85-112	1	18	
Xylene (Total)	ug/l	0.1482	60.00	61.37	59.97	102	100	83-115	2	16	
a,a,a-Trifluorotoluene (S)						100	101	86-115			

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QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D) Laboratory Control Sample (Duplicate)
MS(D) Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
RPD Relative Percent Difference
(S) Surrogate

REPORT OF LABORATORY ANALYSIS

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