

3R – 311

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: Davis 1

Reporting Period: 2003

Location: Unit E, Sec 11, Twn 31N, Rng 12W
Canyon: Farmington Glade
Operator: Burlington

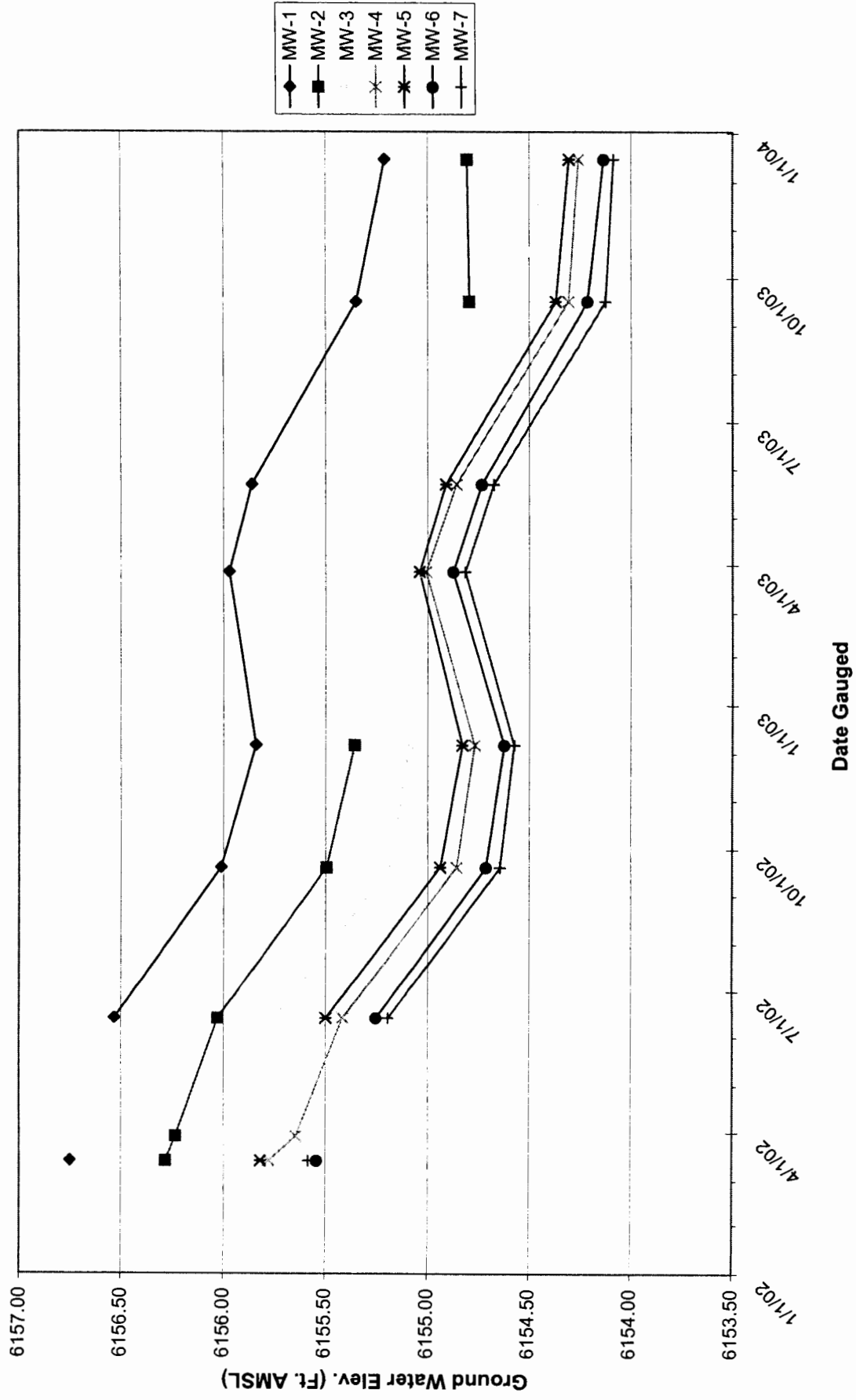
Vulnerable Class: expanded
OCD Ranking: 30
Lead Agency: NMOCD

Status Narrative

This site has seven monitoring wells installed and sixteen quarters of ground water monitoring completed to date. Monitoring wells MW-2 and MW-3 contain measurable accumulations of LNAPL. To date, approximately 3-liters of LNAPL has been recovered from well MW-3 and 0.5-liters from MW-2. Dissolved total BTEX levels in downgradient well MW-5 were 7,610 ppb in the first quarter, 9,554 ppb in the second quarter and 27,370 ppb in the third quarter. An LNAPL accumulation of 0.01-feet was measured in well MW-5 in the fourth quarter. Concentrations of BTEX in well MW-4, which lies approximately 7 meters further downgradient of the source area than MW-5, have continued to remain below the method detection limit. In addition, sentinel wells, MW-6 and MW-7, have not contained detectable BTEX. Laboratory analytical reports are enclosed along with a table summarizing the results.

Ground water flows to the west-northwest with an average hydraulic gradient of 0.006. No significant seasonal variations in flow direction or gradient occur. Figure 2 shows the potentiometric surface for each of the quarterly sampling events. The hydrograph illustrates an overall decrease in water table elevation over the last two years.

Davis #1 Hydrograph



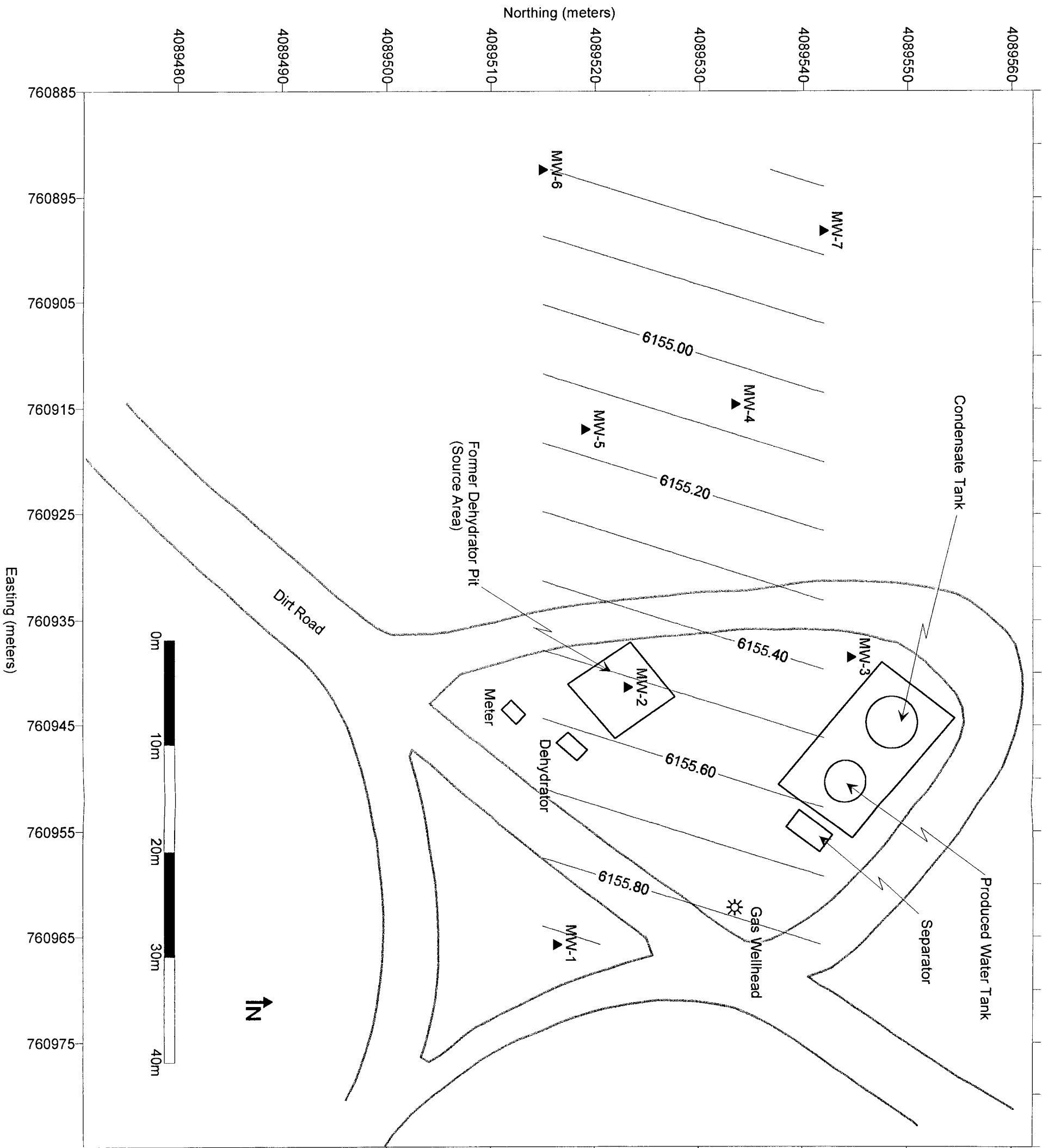


Figure 2
Potentiometric
Surface Map
Davis #1
(March 27, 2003)

LEGEND

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

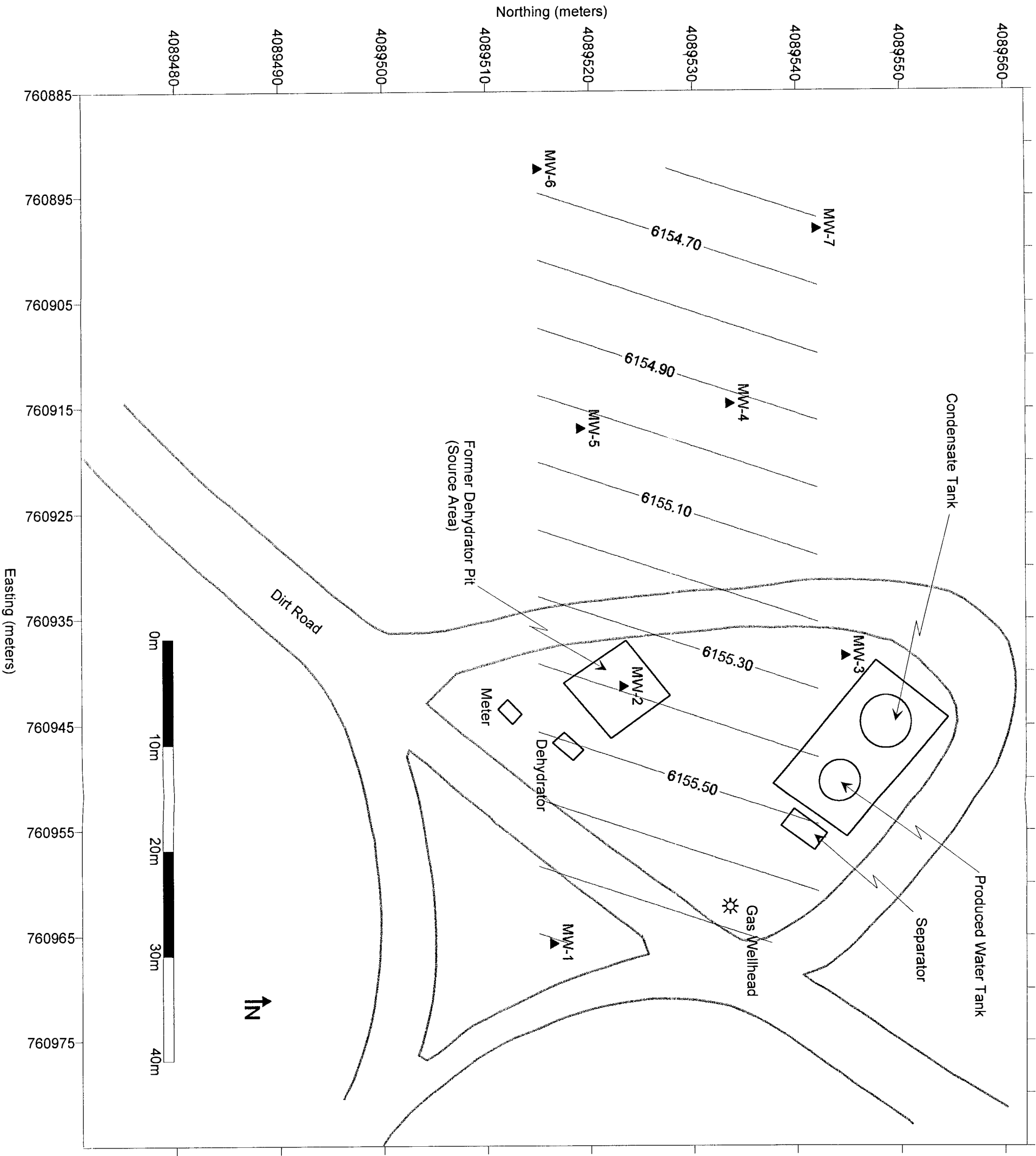


Figure 2
Potentiometric
Surface Map
Davis #1
(May 22, 2003)

LEGEND

MW-2 ▲ Monitoring Well

5585.20 — Ground Water Elevation (ft. AMSL)

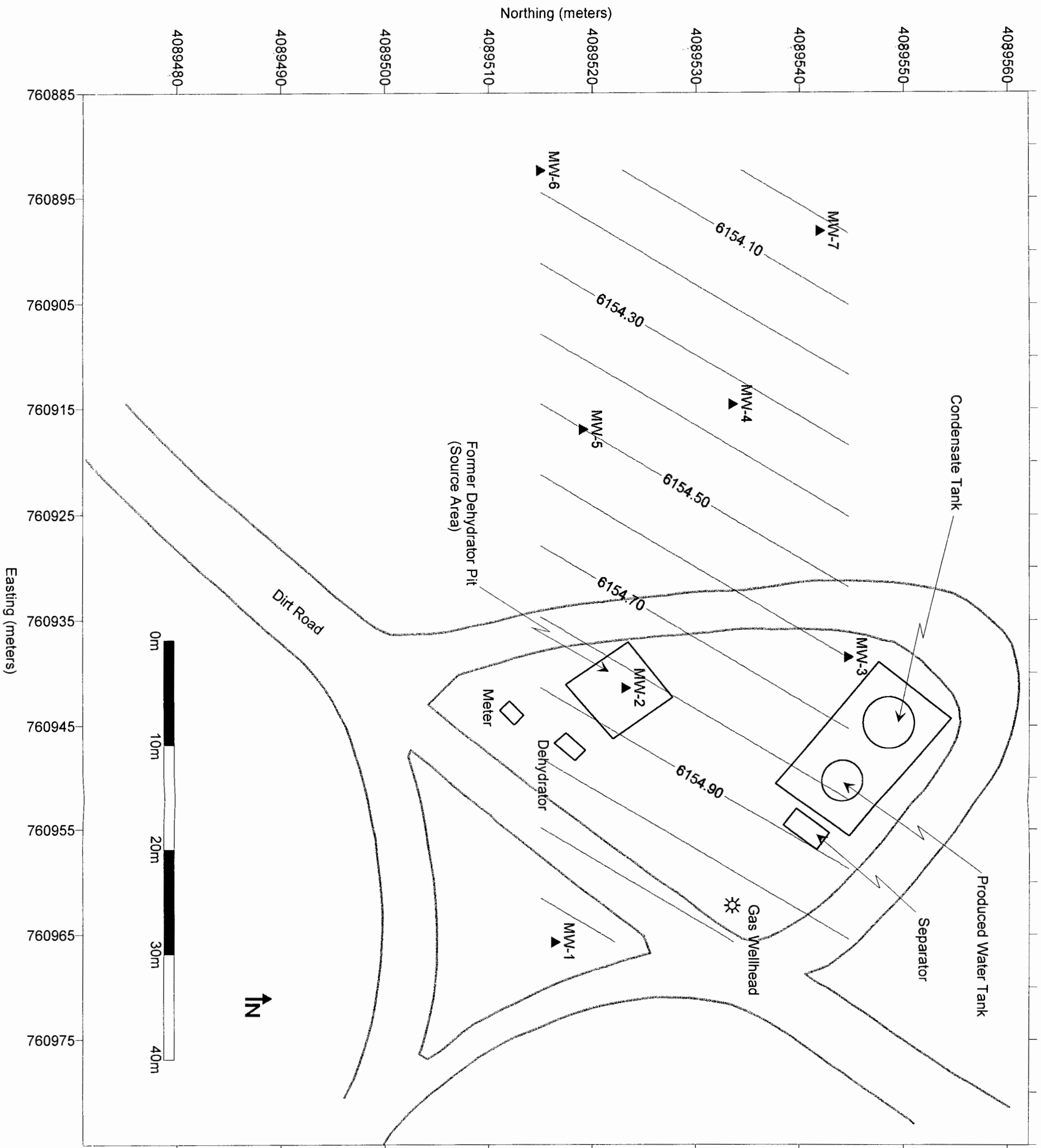


Figure 2
Potentiometric
Surface Map
Davis #1
(September 16, 2003)



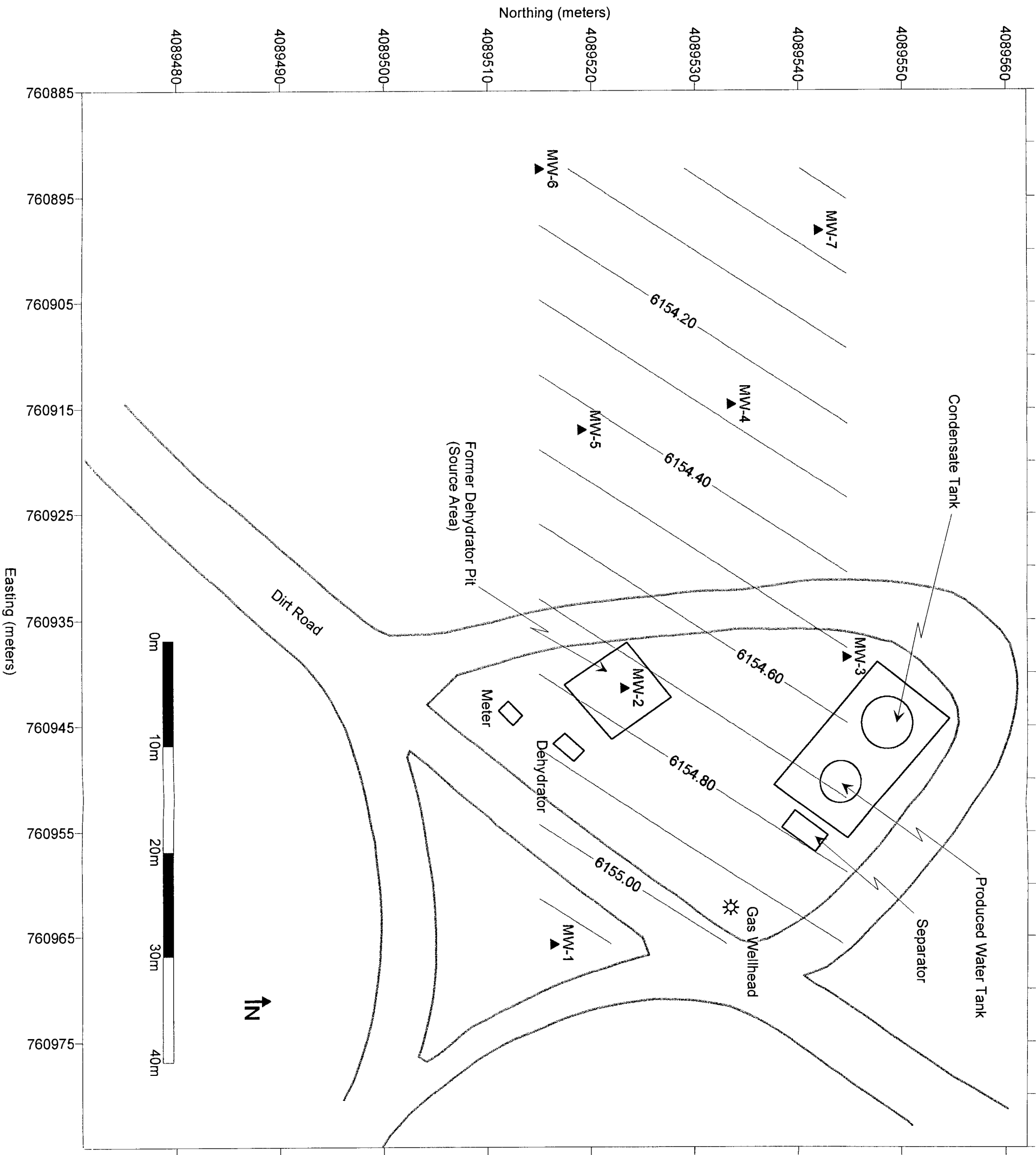


Figure 2
Potentiometric
Surface Map
Davis #1
(December 15, 2003)



Analytical Data Summary

Site Name:

Davis 1

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-1						
	3/27/03	121127MAR03	ND	ND	ND	ND
	5/22/03	125622MAY03	ND	ND	ND	ND
MW-2						
	3/27/03	123827MAR03	17000	29000	1000	8700
	12/15/03	144415DEC03	11000	27000	700	6100
MW-4						
	3/27/03	120827MAR03	ND	ND	ND	ND
	5/22/03	132422MAY03	ND	ND	ND	ND
	9/16/03	104916SEP03	ND	ND	ND	ND
	12/15/03	142615DEC03	ND	ND	ND	ND
MW-5						
	3/27/03	122327MAR03	6400	410	400	400
	5/22/03	133122MAY03	7700	74.	480	1300
	9/16/03	110816SEP03	16000	6800	870	3700
MW-6						
	3/27/03	114927MAR03	ND	ND	ND	ND
	5/22/03	130522MAY03	ND	ND	ND	ND
	9/16/03	103316SEP03	ND	ND	ND	ND
	12/15/03	140815DEC03	ND	ND	ND	ND
MW-7						
	3/27/03	115827MAR03	ND	ND	ND	ND
	5/22/03	131522MAY03	ND	ND	ND	ND
	9/16/03	102016SEP03	ND	ND	ND	ND
	12/15/03	141915DEC03	ND	ND	ND	ND



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

April 09, 2003

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

RE: Lab Project Number: 6069060
Client Project ID: SJB-GW/DVS

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on April 2, 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,
without the written consent of Pace Analytical Services, Inc.

TESTED IN ACCORDANCE

SAMPLE SUMMARY

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

Lab Project Number: 6069060
Client Project ID: SJB-GW/DVS

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>
6069060-001	605958057	115827MAR03	Water	03/27/03 11:58	04/02/03 09:30
6069060-002	605958065	122327MAR03	Water	03/27/03 12:23	04/02/03 09:30
6069060-003	605958073	123827MAR03	Water	03/27/03 12:38	04/02/03 09:30
6069060-004	605958081	114927MAR03	Water	03/27/03 11:49	04/02/03 09:30
6069060-005	605958099	120827MAR03	Water	03/27/03 12:08	04/02/03 09:30
6069060-006	605958107	121127MAR03	Water	03/27/03 12:11	04/02/03 09:30

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6069060
Client Project ID: SJB-GW/DVS

Lab Sample No: 605958057 Project Sample Number: 6069060-001 Date Collected: 03/27/03 11:58
Client Sample ID: 115827MAR03 Matrix: Water Date Received: 04/02/03 09:30

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	04/07/03 21:01 SHF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/07/03 21:01 SHF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	04/07/03 21:01 SHF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	04/07/03 21:01 SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	90	%		1.0	04/07/03 21:01 SHF	98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6069060
Client Project ID: SJB-GW/DVS

Lab Sample No: 605958065 Project Sample Number: 6069060-002 Date Collected: 03/27/03 12:23
Client Sample ID: 122327MAR03 Matrix: Water Date Received: 04/02/03 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	6400	ug/l	100	50.0	04/08/03 08:24	SHF	71-43-2		
Ethylbenzene	400	ug/l	20.	10.0	04/07/03 21:30	SHF	100-41-4		
Toluene	410	ug/l	20.	10.0	04/07/03 21:30	SHF	108-88-3		
Xylene (Total)	400	ug/l	50.	10.0	04/07/03 21:30	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	04/07/03 21:30	SHF	98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6069060
Client Project ID: SJB-GW/DVS

Lab Sample No: 605958073 Project Sample Number: 6069060-003 Date Collected: 03/27/03 12:38
Client Sample ID: 123827MAR03 Matrix: Water Date Received: 04/02/03 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	17000	ug/l	400	200	04/08/03 10:18 SHF		71-43-2		
Ethylbenzene	1000	ug/l	100	50.0	04/07/03 21:58 SHF		100-41-4		
Toluene	29000	ug/l	400	200	04/08/03 10:18 SHF		108-88-3		
Xylene (Total)	8700	ug/l	250	50.0	04/07/03 21:58 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	105	%		1.0	04/07/03 21:58 SHF		98-08-8		

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Lab Project Number: 6069060
Client Project ID: SJB-GW/DVS

Lab Sample No: 605958081 Project Sample Number: 6069060-004 Date Collected: 03/27/03 11:49
Client Sample ID: 114927MAR03 Matrix: Water Date Received: 04/02/03 09:30

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	04/07/03 22:27 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/07/03 22:27 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	04/07/03 22:27 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	04/07/03 22:27 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	96	%		1.0	04/07/03 22:27 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6069060
Client Project ID: SJB-GW/DVS

Lab Sample No: 605958099 Project Sample Number: 6069060-005 Date Collected: 03/27/03 12:08
Client Sample ID: 120827MAR03 Matrix: Water Date Received: 04/02/03 09:30

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	04/07/03 22:55 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/07/03 22:55 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	04/07/03 22:55 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	04/07/03 22:55 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	97	%		1.0	04/07/03 22:55 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6069060
Client Project ID: SJB-GW/DVS

Lab Sample No: 605958107 Project Sample Number: 6069060-006 Date Collected: 03/27/03 12:11
Client Sample ID: 121127MAR03 Matrix: Water Date Received: 04/02/03 09:30

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	04/07/03 23:23	SHF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/07/03 23:23	SHF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	04/07/03 23:23	SHF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	04/07/03 23:23	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	96	%		1.0	04/07/03 23:23	SHF	98-08-8		

REPORT OF LABORATORY ANALYSIS

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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: 6069060
Client Project ID: SJB-GW/DVS

QC Batch: 142326 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 605958057 605958065 605958073 605958081 605958099
605958107

METHOD BLANK: 605965789
Associated Lab Samples: 605958057 605958065 605958073 605958081 605958099 605958107

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
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)	%	91		

LABORATORY CONTROL SAMPLE: 605965797

Parameter	Units	Spike	LCS	LCS	% Rec	Footnotes
		Conc.	Result	% Rec	Limits	
Benzene	ug/l	20.00	21.62	108	85-120	
Ethylbenzene	ug/l	20.00	20.87	104	87-114	
Toluene	ug/l	20.00	20.30	101	87-114	
Xylene (Total)	ug/l	60.00	63.11	105	88-115	
a,a,a-Trifluorotoluene (S)				99	86-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605967553 605967561

Parameter	Units	605958057	Spike	MS	MSD	MS	MSD	% Rec	Max	Footnotes
		Result	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Benzene	ug/l	0.9553	20.00	21.70	20.99	104	100	82-121	3	16
Ethylbenzene	ug/l	0.1301	20.00	20.99	21.08	104	105	84-114	0	14
Toluene	ug/l	0.3187	20.00	20.19	20.05	99	99	85-112	1	18
Xylene (Total)	ug/l	0.5420	60.00	62.95	61.91	104	102	83-115	2	16
a,a,a-Trifluorotoluene (S)						97	96	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

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

June 03, 2003

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

RE: Lab Project Number: 6070865
Client Project ID: SJBGW-DVS1

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on May 28, 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

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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: 6070865
Client Project ID: SJBGW-DVS1

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>
6070865-001	606106011	133122MAY03	Water	05/22/03 13:31	05/28/03 08:40
6070865-002	606106029	131522MAY03	Water	05/22/03 13:15	05/28/03 08:40
6070865-003	606106078	132422MAY03	Water	05/22/03 13:24	05/28/03 08:40
6070865-004	606106086	130522MAY03	Water	05/22/03 13:05	05/28/03 08:40
6070865-005	606106094	125622MAY03	Water	05/22/03 12:56	05/28/03 08:40

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6070865
Client Project ID: SJBGW-DVS1

Lab Sample No: 606106011 Project Sample Number: 6070865-001 Date Collected: 05/22/03 13:31
Client Sample ID: 133122MAY03 Matrix: Water Date Received: 05/28/03 08:40

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	7700	ug/l	100	50.0	06/03/03 07:46	SHF	71-43-2		
Ethylbenzene	480	ug/l	10.	5.0	05/31/03 05:22	SHF	100-41-4		
Toluene	74.	ug/l	10.	5.0	05/31/03 05:22	SHF	108-88-3		
Xylene (Total)	1300	ug/l	25.	5.0	05/31/03 05:22	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	90	%		1.0	05/31/03 05:22	SHF	98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6070865
Client Project ID: SJBGW-DVS1

Lab Sample No: 606106029 Project Sample Number: 6070865-002 Date Collected: 05/22/03 13:15
Client Sample ID: 131522MAY03 Matrix: Water Date Received: 05/28/03 08:40

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	06/02/03 12:59 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/02/03 12:59 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/02/03 12:59 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	06/02/03 12:59 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		1.0	06/02/03 12:59 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6070865
Client Project ID: SJBGW-DVS1

Lab Sample No: 606106078 Project Sample Number: 6070865-003 Date Collected: 05/22/03 13:24
Client Sample ID: 132422MAY03 Matrix: Water Date Received: 05/28/03 08:40

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	05/31/03 06:20 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	05/31/03 06:20 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	05/31/03 06:20 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	05/31/03 06:20 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	92	%		1.0	05/31/03 06:20 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6070865
Client Project ID: SJBGW-DVS1

Lab Sample No: 606106086 Project Sample Number: 6070865-004 Date Collected: 05/22/03 13:05
Client Sample ID: 130522MAY03 Matrix: Water Date Received: 05/28/03 08:40

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	05/31/03 06:48 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	05/31/03 06:48 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	05/31/03 06:48 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	05/31/03 06:48 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	91	%		1.0	05/31/03 06:48 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6070865
Client Project ID: SJBGW-DVS1

Lab Sample No: 606106094 Project Sample Number: 6070865-005 Date Collected: 05/22/03 12:56
Client Sample ID: 125622MAY03 Matrix: Water Date Received: 05/28/03 08:40

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	05/31/03 07:17 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	05/31/03 07:17 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	05/31/03 07:17 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	05/31/03 07:17 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	92	%		1.0	05/31/03 07:17 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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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: 6070865
Client Project ID: SJBGW-DVS1

QC Batch: 145741 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 606106011 606106029 606106078 606106086 606106094

METHOD BLANK: 606106888
Associated Lab Samples: 606106011 606106029 606106078 606106086 606106094

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)	%	93		

LABORATORY CONTROL SAMPLE: 606106896

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	20.88	104	85-120	
Ethylbenzene	ug/l	20.00	19.72	99	87-114	
Toluene	ug/l	20.00	19.99	100	87-114	
Xylene (Total)	ug/l	60.00	61.49	102	88-115	
a,a,a-Trifluorotoluene (S)				91	86-115	1

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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]	Insufficient sample volume received for the MS/MSD. Acceptable recovery of the LCS indicates the analytical system is in control.

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

September 26, 2003

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

RE: Lab Project Number: 6074784
Client Project ID: DVS

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on September 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
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: 6074784
Client Project ID: DVS

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>
6074784-001	606436095	103316SEP03	Water	09/16/03 10:33	09/19/03 08:30
6074784-002	606436103	104916SEP03	Water	09/16/03 10:49	09/19/03 08:30
6074784-003	606436111	102016SEP03	Water	09/16/03 10:20	09/19/03 08:30
6074784-004	606436129	110816SEP03	Water	09/16/03 11:08	09/19/03 08:30

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6074784
Client Project ID: DVS

Project			Analysis		Analytes
<u>Sample Number</u>	<u>Sample No</u>	<u>Client Sample ID</u>	<u>Code</u>	<u>Analysis Description</u>	<u>Reported</u>
6074784-001	606436095	103316SEP03	8020 WPAC	Aromatic Volatile Organics	5
6074784-002	606436103	104916SEP03	8020 WPAC	Aromatic Volatile Organics	5
6074784-003	606436111	102016SEP03	8020 WPAC	Aromatic Volatile Organics	5
6074784-004	606436129	110816SEP03	8020 WPAC	Aromatic Volatile Organics	5

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6074784
Client Project ID: DVS

Lab Sample No: 606436095 Project Sample Number: 6074784-001 Date Collected: 09/16/03 10:33
Client Sample ID: 103316SEP03 Matrix: Water Date Received: 09/19/03 08:30

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	09/22/03 21:00 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	09/22/03 21:00 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	09/22/03 21:00 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	09/22/03 21:00 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		1.0	09/22/03 21:00 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6074784
Client Project ID: DVS

Lab Sample No: 606436103 Project Sample Number: 6074784-002 Date Collected: 09/16/03 10:49
Client Sample ID: 104916SEP03 Matrix: Water Date Received: 09/19/03 08:30

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	09/22/03 21:27 SHF	71-43-2			
Ethylbenzene	ND	ug/l	2.0	1.0	09/22/03 21:27 SHF	100-41-4			
Toluene	ND	ug/l	2.0	1.0	09/22/03 21:27 SHF	108-88-3			
Xylene (Total)	ND	ug/l	5.0	1.0	09/22/03 21:27 SHF	1330-20-7			
a,a,a-Trifluorotoluene (S)	96	%		1.0	09/22/03 21:27 SHF	98-08-8			

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6074784
Client Project ID: DVS

Lab Sample No: 606436111 Project Sample Number: 6074784-003 Date Collected: 09/16/03 10:20
Client Sample ID: 102016SEP03 Matrix: Water Date Received: 09/19/03 08:30

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	09/22/03 21:55 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	09/22/03 21:55 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	09/22/03 21:55 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	09/22/03 21:55 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		1.0	09/22/03 21:55 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6074784
Client Project ID: DVS

Lab Sample No: 606436129 Project Sample Number: 6074784-004 Date Collected: 09/16/03 11:08
Client Sample ID: 110816SEP03 Matrix: Water Date Received: 09/19/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	16000	ug/l	200	100	09/23/03 12:12 SHF		71-43-2		
Ethylbenzene	870	ug/l	200	100	09/23/03 12:12 SHF		100-41-4		
Toluene	6800	ug/l	200	100	09/23/03 12:12 SHF		108-88-3		
Xylene (Total)	3700	ug/l	500	100	09/23/03 12:12 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		1.0	09/23/03 12:12 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: 6074784
Client Project ID: DVS

QC Batch: 153543 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 606436095 606436103 606436111 606436129

METHOD BLANK: 606440816
Associated Lab Samples: 606436095 606436103 606436111 606436129

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
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: 606440824

Parameter	Units	Spike	LCS	LCS	% Rec	Footnotes
		Conc.	Result	% Rec	Limits	
Benzene	ug/l	20.00	20.35	102	85-120	
Ethylbenzene	ug/l	20.00	19.89	99	87-114	
Toluene	ug/l	20.00	19.79	99	87-114	
Xylene (Total)	ug/l	60.00	60.79	101	88-115	
a,a,a-Trifluorotoluene (S)				96	86-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606442028 606442036

Parameter	Units	606436095	Spike	MS	MSD	MS	MSD	% Rec	Max	Footnotes
		Result	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Benzene	ug/l	0.1547	20.00	19.67	19.48	98	97	82-121	1	16
Ethylbenzene	ug/l	0.2368	20.00	20.23	19.90	100	98	84-114	2	14
Toluene	ug/l	0	20.00	19.87	19.42	99	97	85-112	2	18
Xylene (Total)	ug/l	0.1032	60.00	61.51	60.78	102	101	83-115	1	16
a,a,a-Trifluorotoluene (S)						99	97	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

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: 6077820
Client Project ID: SJB-GW 12/15/03 *DVS*

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: 6077820

Client Project ID: SJB-GW 12/15/03 DVS

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>
6077820-001	606699346	141915DEC03	Water	12/15/03 14:19	12/19/03 10:20
6077820-002	606699353	144415DEC03	Water	12/15/03 14:44	12/19/03 10:20
6077820-003	606699361	142615DEC03	Water	12/15/03 14:26	12/19/03 10:20
6077820-004	606699379	140815DEC03	Water	12/15/03 14:08	12/19/03 10:20

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077820

Client Project ID: SJB-GW 12/15/03 **DVS**

Project			Analysis		Analytes
<u>Sample Number</u>	<u>Sample No</u>	<u>Client Sample ID</u>	<u>Code</u>	<u>Analysis Description</u>	<u>Reported</u>
6077820-001	606699346	141915DEC03	8020 WPAC	Aromatic Volatile Organics	5
6077820-002	606699353	144415DEC03	8020 WPAC	Aromatic Volatile Organics	5
6077820-003	606699361	142615DEC03	8020 WPAC	Aromatic Volatile Organics	5
6077820-004	606699379	140815DEC03	8020 WPAC	Aromatic Volatile Organics	5

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077820

Client Project ID: SJB-GW 12/15/03 DVS

Lab Sample No: 606699346
Client Sample ID: 141915DEC03

Project Sample Number: 6077820-001
Matrix: Water

Date Collected: 12/15/03 14:19
Date Received: 12/19/03 10:20

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	12/21/03 13:22		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/21/03 13:22		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/21/03 13:22		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/21/03 13:22		1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		1.0	12/21/03 13:22		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077820

Client Project ID: SJB-GW 12/15/03 *DVS*

Lab Sample No: 606699353

Project Sample Number: 6077820-002

Date Collected: 12/15/03 14:44

Client Sample ID: 144415DEC03

Matrix: Water

Date Received: 12/19/03 10:20

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

GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	11000	ug/l	200	100	12/21/03 13:50		71-43-2		
Ethylbenzene	700	ug/l	200	100	12/21/03 13:50		100-41-4		
Toluene	27000	ug/l	400	200	12/21/03 22:59		108-88-3		
Xylene (Total)	6100	ug/l	500	100	12/21/03 13:50		1330-20-7		
a,a,a-Trifluorotoluene (S)	105	%		1.0	12/21/03 13:50		98-08-8		

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Lab Project Number: 6077820

Client Project ID: SJB-GW 12/15/03 **DVS**

Lab Sample No: 606699361

Project Sample Number: 6077820-003

Date Collected: 12/15/03 14:26

Client Sample ID: 142615DEC03

Matrix: Water

Date Received: 12/19/03 10:20

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	12/21/03 14:17		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/21/03 14:17		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/21/03 14:17		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/21/03 14:17		1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		1.0	12/21/03 14:17		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077820

Client Project ID: SJB-GW 12/15/03 **DVS**

Lab Sample No: 606699379

Project Sample Number: 6077820-004

Date Collected: 12/15/03 14:08

Client Sample ID: 140815DEC03

Matrix: Water

Date Received: 12/19/03 10:20

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	12/21/03 14:45		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/21/03 14:45		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/21/03 14:45		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/21/03 14:45		1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	12/21/03 14:45		98-08-8		

REPORT OF LABORATORY ANALYSIS

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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: 6077820
Client Project ID: SJB-GW 12/15/03

QC Batch: 159528 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 606699346 606699353 606699361 606699379

METHOD BLANK: 606701415
Associated Lab Samples: 606699346 606699353 606699361 606699379

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
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: 606701423

Parameter	Units	Spike	LCS	LCS	% Rec	Footnotes
		Conc.	Result	% Rec	Limits	
Benzene	ug/l	20.00	19.89	100	85-120	
Ethylbenzene	ug/l	20.00	20.26	101	87-114	
Toluene	ug/l	20.00	19.91	100	87-114	
Xylene (Total)	ug/l	60.00	62.51	104	88-115	
a,a,a-Trifluorotoluene (S)				100	86-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606701654 606701662

Parameter	Units	606699338	Spike	MS	MSD	MS	MSD	% Rec	Max	Footnotes
		Result	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Benzene	ug/l	0.09755	20.00	19.65	19.85	98	99	82-121	1	16
Ethylbenzene	ug/l	0	20.00	19.98	20.15	100	101	84-114	1	14
Toluene	ug/l	0.1050	20.00	19.51	19.85	97	99	85-112	2	18
Xylene (Total)	ug/l	0.1039	60.00	61.18	62.10	102	103	83-115	1	16
a,a,a-Trifluorotoluene (S)						101	100	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

REPORT OF LABORATORY ANALYSIS

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