

3R – 325

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 vertical line.

Mark Harvey
Project Coordinator

Enclosure – 2003 Ground Water Summary Report

Cc: Bill Liess, BLM Farmington Office

Site Summary Report

Site Name: Jicarilla Contract 147-6

Reporting Period: 2003

Location: Unit C, Sec 6, Twn 25N, Rng 5W

Canyon: Tapicito

Operator: Amoco

Vulnerable Class: expanded

OCD Ranking: 40

Lead Agency: NMOCD / JAEPO

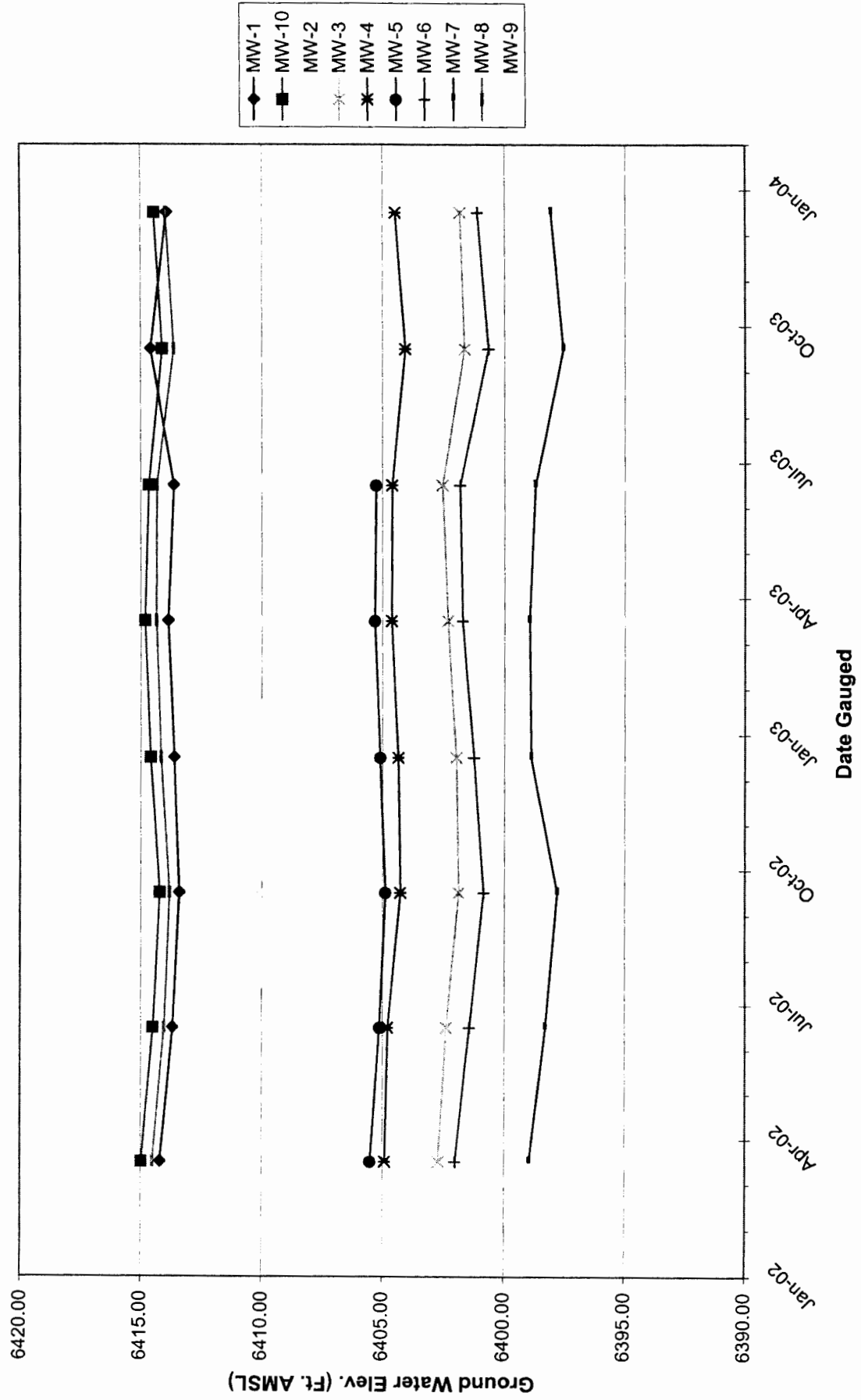
Status Narrative

Seventeen quarters of water quality data have been collected from the ten monitoring wells located at this site. Concentrations of benzene in MW-2, the source area well, exceeded the WQCC cleanup standard in the first quarter. Benzene was below the cleanup standard throughout the rest of the year. Cross-gradient well, MW-8, showed a decrease in benzene levels from 280 ppb in the first quarter to 55 ppb in the fourth quarter. Monitoring well MW-5, located in the arroyo along the northeastern edge of the contaminant plume, was destroyed or buried by bank erosion sometime after second quarter sampling. Samples from this well met the cleanup standards in the first and second quarters.

Concentrations of dissolved BTEX in downgradient wells MW-3, MW-4 and MW-6 remain above the cleanup standards. Measurable accumulations of LNAPL were discovered for the first time in MW-7 at the start of this year. To date, approximately 1-liter of LNAPL has been recovered. Well MW-9, which is located approximately 13-meters downgradient of MW-7 contained no detectable BTEX constituents in the first and second quarters. In the third quarter, benzene was measured at 86 ppb and in the fourth quarter it was at 69 ppb.

Potentiometric surface maps (Figure 2) depict a northwest by north ground water flow direction at an average hydraulic gradient of 0.025. No significant seasonal variations in flow direction or gradient are evident. Seasonal fluctuations in water-table elevation at the site are illustrated in the enclosed hydrograph.

Jicarilla 147-6 Hydrograph



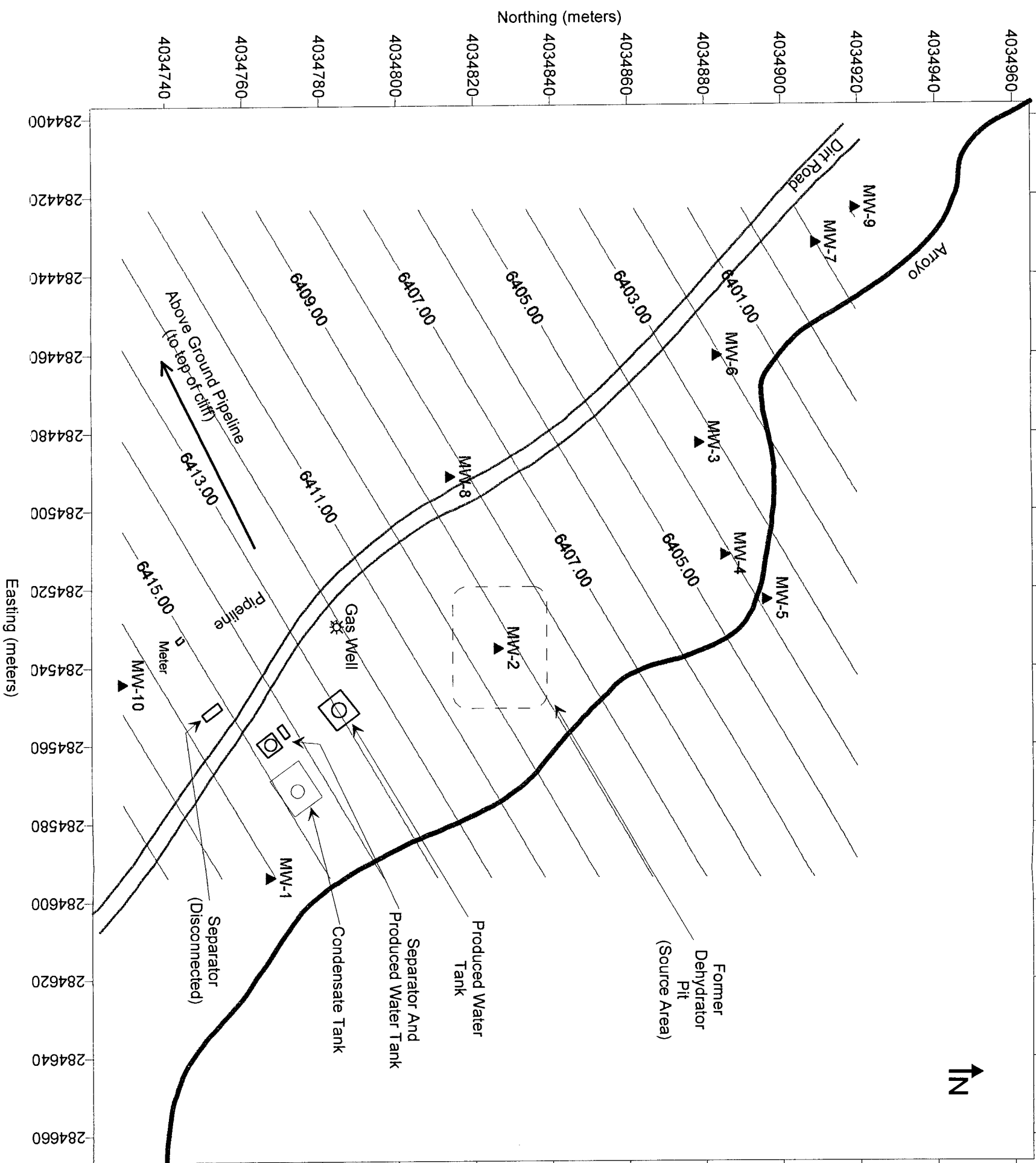


Figure 2
Potentiometric
Surface Map
Jicarilla Contract 147-6
(March 25, 2003)

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

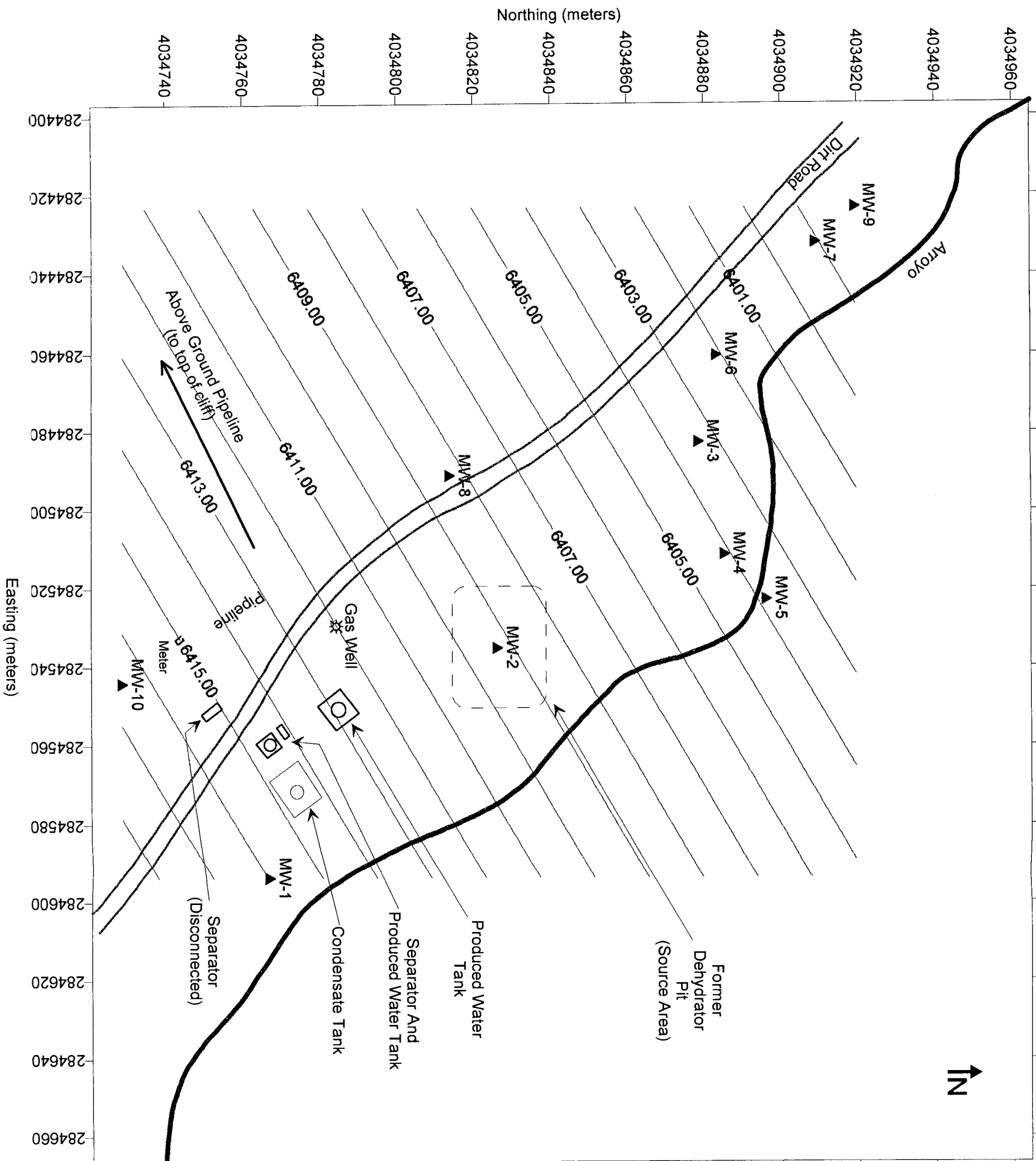


Figure 2
Potentiometric
Surface Map
Jicarilla Contract 147-6
(June 3, 2003)

LEGEND

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

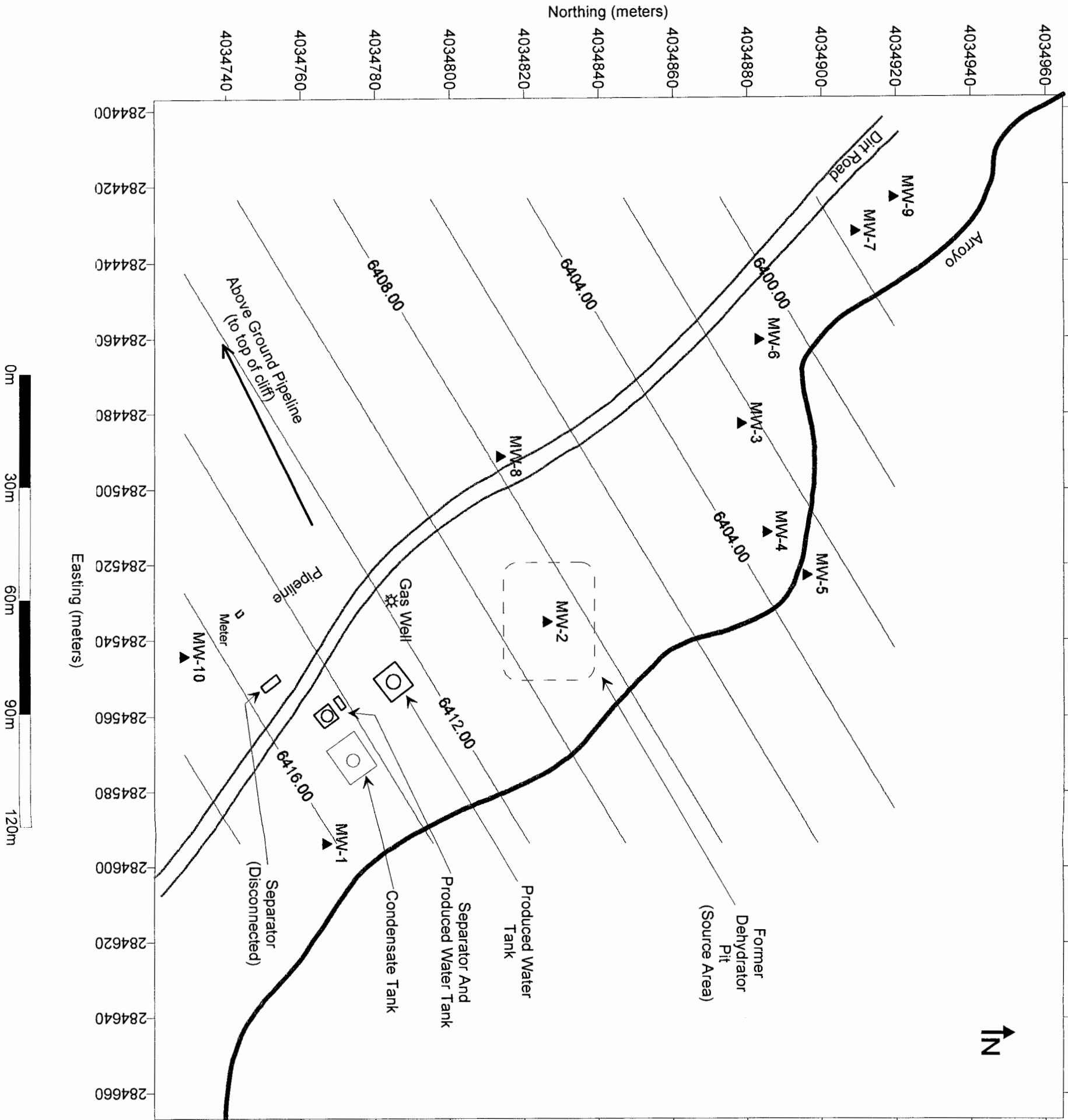


Figure 2
Potentiometric
Surface Map
Jicarilla Contract 147-6
(September 24, 2003)

LEGEND

MW-2

▲

Monitoring Well

5585.20

—

Ground Water Elevation (ft. AMSL)

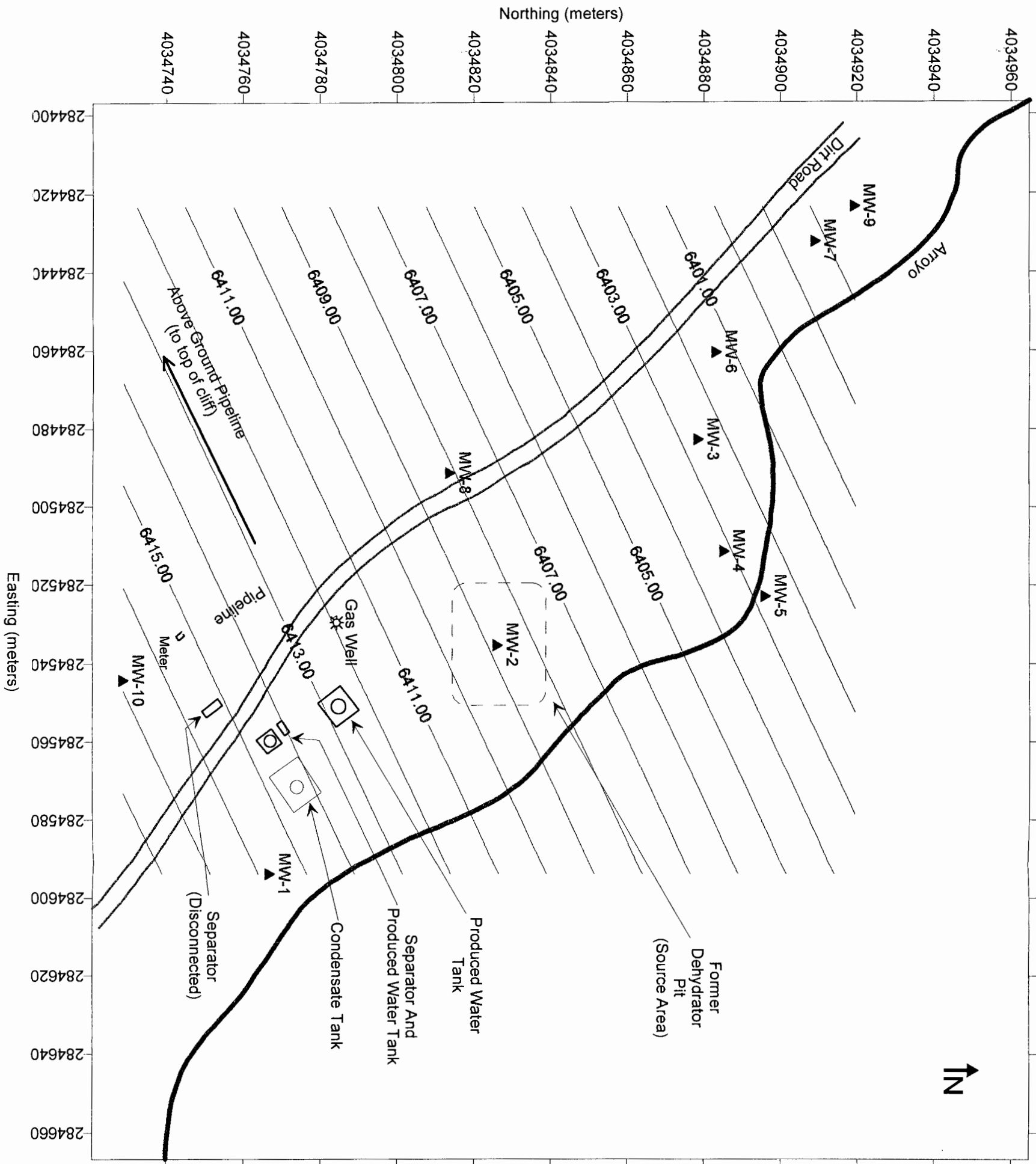


Figure 2
Potentiometric
Surface Map
Jicarilla Contract 147-6
(December 17, 2003)

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

Analytical Data Summary

Site Name:

Jicarilla Contract 147-6

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						
	6/3/03	115403JUN03	ND	ND	ND	ND
MW-10						
	6/3/03	113903JUN03	ND	ND	ND	ND
MW-2						
	3/25/03	132625MAR03	34.	ND	20.	170
	6/3/03	123503JUN03	7.9	ND	ND	5.0
	9/24/03	160224SEP03	2.8	5.1	2.8	ND
	12/17/03	144217DEC03	2.5	5.9	ND	ND
MW-3						
	3/25/03	130625MAR03	4100	3200	260	4000
	6/3/03	131103JUN03	4500	4700	210	4100
	9/24/03	155124SEP03	5800	7300	320	5700
	12/17/03	141217DEC03	4900	5300	280	5200
MW-4						
	3/25/03	125725MAR03	110	23.	28.	20.
	6/3/03	125903JUN03	220	4.5	55.	29.
	9/24/03	154324SEP03	190	45.	57.	60.
	12/17/03	140517DEC03	200	2.9	58.	ND
MW-5						
	3/25/03	123225MAR03	9.8	ND	160	26.
	6/3/03	124603JUN03	9.7	ND	160	33.
MW-6						
	3/25/03	135725MAR03	16000	370	490	1800
	6/3/03	133803JUN03	15000	ND	290	1500
	9/24/03	162324SEP03	18000	1200	370	2000
	12/17/03	151817DEC03	21000	ND	500	2200
MW-7						
	6/3/03	134903JUN03	800	3400	410	4600
MW-8						
	3/25/03	131525MAR03	280	ND	5.8	ND
	6/3/03	132203JUN03	160	ND	4.2	ND
	9/24/03	153524SEP03	78.	2.2	4.2	ND
	12/17/03	143017DEC03	55.	ND	3.2	ND

Site Name:

Jicarilla Contract 147-6

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						
	3/25/03	134225MAR03	ND	ND	ND	ND
	6/3/03	135803JUN03	ND	ND	ND	ND
	9/24/03	161324SEP03	86.	ND	ND	ND
	12/17/03	150517DEC03	69.	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: 6068861
Client Project ID: SJB-GW JIC

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: 6068861
Client Project ID: SJB-GW JIC

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>
6068861-001	605939784	132625MAR03	Water	03/25/03 13:26	03/27/03 09:45
6068861-002	605939792	130625MAR03	Water	03/25/03 13:06	03/27/03 09:45
6068861-003	605939800	125725MAR03	Water	03/25/03 12:57	03/27/03 09:45
6068861-004	605939818	135125MAR03 ^{APS} 131525MAR03	Water	03/25/03 13:15	03/27/03 09:45
6068861-005	605939826	123225MAR03	Water	03/25/03 12:32	03/27/03 09:45
6068861-006	605939834	135725MAR03	Water	03/25/03 13:57	03/27/03 09:45
6068861-007	605939842	160625MAR03	Water	03/25/03 16:06	03/27/03 09:45
6068861-008	605939859	134225MAR03	Water	03/25/03 13:42	03/27/03 09:45

REPORT OF LABORATORY ANALYSIS

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Lab Sample No: 605939784
Client Sample ID: 132625MAR03

Project Sample Number: 6068861-001
Matrix: Water

Date Collected: 03/25/03 13:26
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	34.	ug/l	2.0	1.0	04/01/03 21:37 SHF	71-43-2			
Ethylbenzene	20.	ug/l	2.0	1.0	04/01/03 21:37 SHF	100-41-4			
Toluene	ND	ug/l	2.0	1.0	04/01/03 21:37 SHF	108-88-3			
Xylene (Total)	170	ug/l	5.0	1.0	04/01/03 21:37 SHF	1330-20-7			
a,a,a-Trifluorotoluene (S)	103	%		1.0	04/01/03 21:37 SHF	98-08-8			

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Lab Project Number: 6068861
Client Project ID: SJB-GW JIC

Lab Sample No: 605939792 Project Sample Number: 6068861-002 Date Collected: 03/25/03 13:06
Client Sample ID: 130625MAR03 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	4100	ug/l	100	50.0	04/01/03 22:05 SHF	71-43-2			
Ethylbenzene	260	ug/l	100	50.0	04/01/03 22:05 SHF	100-41-4			
Toluene	3200	ug/l	100	50.0	04/01/03 22:05 SHF	108-88-3			
Xylene (Total)	4000	ug/l	250	50.0	04/01/03 22:05 SHF	1330-20-7			
a,a,a-Trifluorotoluene (S)	105	%		1.0	04/01/03 22:05 SHF	98-08-8			

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Lab Project Number: 6068861
Client Project ID: SJB-GW JIC

Lab Sample No: 605939800 Project Sample Number: 6068861-003 Date Collected: 03/25/03 12:57
Client Sample ID: 125725MAR03 Matrix: Water 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	110	ug/l	2.0	1.0	04/01/03 22:34 SHF		71-43-2		
Ethylbenzene	28.	ug/l	2.0	1.0	04/01/03 22:34 SHF		100-41-4		
Toluene	23.	ug/l	2.0	1.0	04/01/03 22:34 SHF		108-88-3		
Xylene (Total)	20.	ug/l	5.0	1.0	04/01/03 22:34 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	04/01/03 22:34 SHF		98-08-8		

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Lab Project Number: 6068861
Client Project ID: SJB-GW JIC

Lab Sample No: 605939818 Project Sample Number: 6068861-004 Date Collected: 03/25/03 13:15
Client Sample ID: ~~135125MAR03~~ ^{aps} Matrix: Water Date Received: 03/27/03 09:45
131525MAR03

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	280	ug/l	4.0	2.0	04/02/03 09:40 SHF	71-43-2
Ethylbenzene	5.8	ug/l	2.0	1.0	04/01/03 23:03 SHF	100-41-4
Toluene	ND	ug/l	2.0	1.0	04/01/03 23:03 SHF	108-88-3
Xylene (Total)	ND	ug/l	5.0	1.0	04/01/03 23:03 SHF	1330-20-7
a,a,a-Trifluorotoluene (S)	102	%		1.0	04/01/03 23:03 SHF	98-08-8

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Lab Project Number: 6068861
Client Project ID: SJB-GW JIC

Lab Sample No: 605939826 Project Sample Number: 6068861-005 Date Collected: 03/25/03 12:32
Client Sample ID: 123225MAR03 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	9.8	ug/l	2.0	1.0	04/01/03 23:32 SHF		71-43-2		
Ethylbenzene	160	ug/l	2.0	1.0	04/01/03 23:32 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	04/01/03 23:32 SHF		108-88-3		
Xylene (Total)	26.	ug/l	5.0	1.0	04/01/03 23:32 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		1.0	04/01/03 23:32 SHF		98-08-8		

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Lab Project Number: 6068861
Client Project ID: SJB-GW JIC

Lab Sample No: 605939834 Project Sample Number: 6068861-006 Date Collected: 03/25/03 13:57
Client Sample ID: 135725MAR03 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	16000	ug/l	200	100	04/02/03 00:01 SHF		71-43-2		
Ethylbenzene	490	ug/l	200	100	04/02/03 00:01 SHF		100-41-4		
Toluene	370	ug/l	200	100	04/02/03 00:01 SHF		108-88-3		
Xylene (Total)	1800	ug/l	500	100	04/02/03 00:01 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	105	%		1.0	04/02/03 00:01 SHF		98-08-8	1	

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6068861
Client Project ID: SJB-GW JIC

Lab Sample No: 605939842 Project Sample Number: 6068861-007 Date Collected: 03/25/03 16:06
Client Sample ID: 160625MAR03 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	7.7	ug/l	2.0	1.0	04/02/03 00:30 SHF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/02/03 00:30 SHF	100-41-4		
Toluene	8.4	ug/l	2.0	1.0	04/02/03 00:30 SHF	108-88-3		
Xylene (Total)	32.	ug/l	5.0	1.0	04/02/03 00:30 SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	105	%		1.0	04/02/03 00:30 SHF	98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6068861
Client Project ID: SJB-GW JIC

Lab Sample No: 605939859 Project Sample Number: 6068861-008 Date Collected: 03/25/03 13:42
Client Sample ID: 134225MAR03 Matrix: Water Date Received: 03/27/03 09:45

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	04/02/03 00:59	SHF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/02/03 00:59	SHF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	04/02/03 00:59	SHF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	04/02/03 00:59	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	04/02/03 00:59	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
[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: 6068861
Client Project ID: SJB-GW JIC

QC Batch: 141979 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 605939784 605939792 605939800 605939818 605939826
 605939834 605939842 605939859

METHOD BLANK: 605950328
Associated Lab Samples: 605939784 605939792 605939800 605939818 605939826 605939834 605939842
 605939859

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)	%	106		

LABORATORY CONTROL SAMPLE: 605950336

Parameter	Units	Spike	LCS	LCS	% Rec	Footnotes
		Conc.	Result	% Rec	Limits	
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	Spike	MS	MSD	MS	MSD	% Rec	Max	Footnotes
		Result	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
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		

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

June 10, 2003

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

RE: Lab Project Number: 6071157
Client Project ID: SJBGW-JIC147-6

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: 6071157

Client Project ID: SJBGW-JIC147-6

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>
6071157-001	606130011	134903JUN03	Water	06/03/03 13:49	06/05/03 09:15
6071157-002	606130029	125903JUN03	Water	06/03/03 12:59	06/05/03 09:15
6071157-003	606130037	135803JUN03	Water	06/03/03 13:58	06/05/03 09:15
6071157-004	606130045	132203JUN03	Water	06/03/03 13:22	06/05/03 09:15
6071157-005	606130052	133803JUN03	Water	06/03/03 13:38	06/05/03 09:15
6071157-006	606130060	131103JUN03	Water	06/03/03 13:11	06/05/03 09:15
6071157-007	606130078	124603JUN03	Water	06/03/03 12:46	06/05/03 09:15
6071157-008	606130086	115403JUN03	Water	06/03/03 11:54	06/05/03 09:15
6071157-009	606130094	113903JUN03	Water	06/03/03 11:39	06/05/03 09:15
6071157-010	606130102	123503JUN03	Water	06/03/03 12:35	06/05/03 09:15

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071157
Client Project ID: SJBGW-JIC147-6

Lab Sample No: 606130011 Project Sample Number: 6071157-001 Date Collected: 06/03/03 13:49
Client Sample ID: 134903JUN03 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	800	ug/l	100	50.0	06/09/03 17:14 SHF	71-43-2			
Ethylbenzene	410	ug/l	100	50.0	06/09/03 17:14 SHF	100-41-4			
Toluene	3400	ug/l	100	50.0	06/09/03 17:14 SHF	108-88-3			
Xylene (Total)	4600	ug/l	250	50.0	06/09/03 17:14 SHF	1330-20-7			
a,a,a-Trifluorotoluene (S)	104	%		1.0	06/09/03 17:14 SHF	98-08-8			

REPORT OF LABORATORY ANALYSIS

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Lab Sample No: 606130029
Client Sample ID: 125903JUN03

Project Sample Number: 6071157-002

Matrix: Water

Date Collected: 06/03/03 12:59

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	220	ug/l	2.0	1.0	06/09/03 17:43 SHF	71-43-2			
Ethylbenzene	55.	ug/l	2.0	1.0	06/09/03 17:43 SHF	100-41-4			
Toluene	4.5	ug/l	2.0	1.0	06/09/03 17:43 SHF	108-88-3			
Xylene (Total)	29.	ug/l	5.0	1.0	06/09/03 17:43 SHF	1330-20-7			
a,a,a-Trifluorotoluene (S)	100	%		1.0	06/09/03 17:43 SHF	98-08-8			

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071157
Client Project ID: SJBGW-JIC147-6

Lab Sample No: 606130037 Project Sample Number: 6071157-003 Date Collected: 06/03/03 13:58
Client Sample ID: 135803JUN03 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	06/09/03 18:12 SHF	71-43-2			
Ethylbenzene	ND	ug/l	2.0	1.0	06/09/03 18:12 SHF	100-41-4			
Toluene	ND	ug/l	2.0	1.0	06/09/03 18:12 SHF	108-88-3			
Xylene (Total)	ND	ug/l	5.0	1.0	06/09/03 18:12 SHF	1330-20-7			
a,a,a-Trifluorotoluene (S)	101	%		1.0	06/09/03 18:12 SHF	98-08-8			

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Lab Project Number: 6071157
Client Project ID: SJBGW-JIC147-6

Lab Sample No: 606130045 Project Sample Number: 6071157-004 Date Collected: 06/03/03 13:22
Client Sample ID: 132203JUN03 Matrix: Water Date Received: 06/05/03 09:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	160	ug/l	2.0	1.0	06/10/03 08:41	SHF	71-43-2		
Ethylbenzene	4.2	ug/l	2.0	1.0	06/10/03 08:41	SHF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/10/03 08:41	SHF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	06/10/03 08:41	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	107	%		1.0	06/10/03 08:41	SHF	98-08-8		

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Lab Project Number: 6071157

Client Project ID: SJBGW-JIC147-6

Lab Sample No: 606130052
Client Sample ID: 133803JUN03

Project Sample Number: 6071157-005
Matrix: Water

Date Collected: 06/03/03 13:3
Date Received: 06/05/03 09:1

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	15000	ug/l	200	100	06/10/03 09:10 SHF		71-43-2		
Ethylbenzene	290	ug/l	100	50.0	06/09/03 19:10 SHF		100-41-4		
Toluene	ND	ug/l	100	50.0	06/09/03 19:10 SHF		108-88-3		
Xylene (Total)	1500	ug/l	250	50.0	06/09/03 19:10 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	06/09/03 19:10 SHF		98-08-8	1	

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Lab Project Number: 6071157
Client Project ID: SJBGW-JIC147-6

Lab Sample No: 606130060 Project Sample Number: 6071157-006 Date Collected: 06/03/03 13:11
Client Sample ID: 131103JUN03 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	4500	ug/l	100	50.0	06/09/03 19:38 SHF		71-43-2		
Ethylbenzene	210	ug/l	100	50.0	06/09/03 19:38 SHF		100-41-4		
Toluene	4700	ug/l	100	50.0	06/09/03 19:38 SHF		108-88-3		
Xylene (Total)	4100	ug/l	250	50.0	06/09/03 19:38 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	06/09/03 19:38 SHF		98-08-8		

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Lab Project Number: 6071157
Client Project ID: SJBGW-JIC147-6

Lab Sample No: 606130078 Project Sample Number: 6071157-007 Date Collected: 06/03/03 12:46
Client Sample ID: 124603JUN03 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	9.7	ug/l	2.0	1.0	06/09/03 20:07 SHF		71-43-2		
Ethylbenzene	160	ug/l	2.0	1.0	06/09/03 20:07 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/09/03 20:07 SHF		108-88-3		
Xylene (Total)	33.	ug/l	5.0	1.0	06/09/03 20:07 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	97	%		1.0	06/09/03 20:07 SHF		98-08-8		

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Lab Project Number: 6071157
Client Project ID: SJBGW-JIC147-6

Lab Sample No: 606130086 Project Sample Number: 6071157-008 Date Collected: 06/03/03 11:54
Client Sample ID: 115403JUN03 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	06/09/03 20:36 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/09/03 20:36 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/09/03 20:36 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	06/09/03 20:36 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	06/09/03 20:36 SHF		98-08-8		

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Lab Project Number: 6071157
Client Project ID: SJBGW-JIC147-6

Lab Sample No: 606130094 Project Sample Number: 6071157-009 Date Collected: 06/03/03 11:39
Client Sample ID: 113903JUN03 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	06/09/03 23:00 SHF	71-43-2			
Ethylbenzene	ND	ug/l	2.0	1.0	06/09/03 23:00 SHF	100-41-4			
Toluene	ND	ug/l	2.0	1.0	06/09/03 23:00 SHF	108-88-3			
Xylene (Total)	ND	ug/l	5.0	1.0	06/09/03 23:00 SHF	1330-20-7			
a,a,a-Trifluorotoluene (S)	102	%		1.0	06/09/03 23:00 SHF	98-08-8			

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Lab Project Number: 6071157
Client Project ID: SJBGW-JIC147-6

Lab Sample No: 606130102 Project Sample Number: 6071157-010 Date Collected: 06/03/03 12:35
Client Sample ID: 123503JUN03 Matrix: Water Date Received: 06/05/03 09:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	7.9	ug/l	2.0	1.0	06/09/03 23:28 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/09/03 23:28 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/09/03 23:28 SHF		108-88-3		
Xylene (Total)	5.0	ug/l	5.0	1.0	06/09/03 23:28 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	104	%		1.0	06/09/03 23:28 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
[1]	The sample pH was checked and found to be greater than 2.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 6071157
Client Project ID: SJBGW-JIC147-6

QC Batch: 146530 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 606130011 606130029 606130037 606130045 606130052
 606130060 606130078 606130086 606130094 606130102

METHOD BLANK: 606141067
Associated Lab Samples: 606130011 606130029 606130037 606130045 606130052 606130060 606130078
 606130086 606130094 606130102

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)	%	102		

LABORATORY CONTROL SAMPLE: 606141075

Parameter	Units	Spike	LCS	LCS	% Rec	Footnotes
		Conc.	Result	% Rec	Limits	
Benzene	ug/l	20.00	22.08	110	85-120	
Ethylbenzene	ug/l	20.00	21.09	105	87-114	
Toluene	ug/l	20.00	21.20	106	87-114	
Xylene (Total)	ug/l	60.00	65.02	108	88-115	
a,a,a-Trifluorotoluene (S)				102	86-115	1

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
[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

October 08, 2003

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

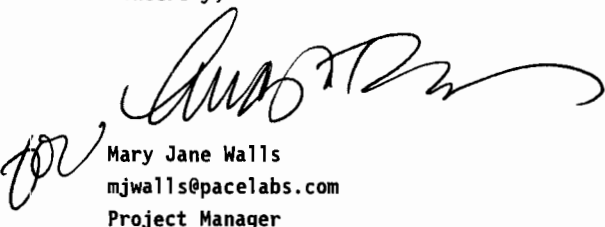
RE: Lab Project Number: 6075066
Client Project ID: JIC

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,



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: 6075066
Client Project ID: JIC

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>
6075066-001	606461879	160224SEP03	Water	09/24/03 16:02	09/26/03 08:55
6075066-002	606461887	155124SEP03	Water	09/24/03 15:51	09/26/03 08:55
6075066-003	606461895	154324SEP03	Water	09/24/03 15:43	09/26/03 08:55
6075066-004	606461903	162324SEP03	Water	09/24/03 16:43	09/26/03 08:55
6075066-005	606461911	153524SEP03	Water	09/24/03 15:35	09/26/03 08:55
6075066-006	606461929	161324SEP03	Water	09/24/03 16:13	09/26/03 08:55

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075066
Client Project ID: JIC

Project			Analysis		Analytes
<u>Sample Number</u>	<u>Sample No</u>	<u>Client Sample ID</u>	<u>Code</u>	<u>Analysis Description</u>	
6075066-001	606461879	160224SEP03	8020 WPAC	Aromatic Volatile Organics	5
6075066-002	606461887	155124SEP03	8020 WPAC	Aromatic Volatile Organics	5
6075066-003	606461895	154324SEP03	8020 WPAC	Aromatic Volatile Organics	5
6075066-004	606461903	162324SEP03	8020 WPAC	Aromatic Volatile Organics	5
6075066-005	606461911	153524SEP03	8020 WPAC	Aromatic Volatile Organics	5
6075066-006	606461929	161324SEP03	8020 WPAC	Aromatic Volatile Organics	5

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075066
Client Project ID: JIC

Lab Sample No: 606461879 Project Sample Number: 6075066-001 Date Collected: 09/24/03 16:02
Client Sample ID: 160224SEP03 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	2.8	ug/l	2.0	1.0	10/06/03 15:06	ARF	71-43-2		
Ethylbenzene	2.8	ug/l	2.0	1.0	10/06/03 15:06	ARF	100-41-4		
Toluene	5.1	ug/l	2.0	1.0	10/06/03 15:06	ARF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/06/03 15:06	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		1.0	10/06/03 15:06	ARF	98-08-8		

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Lab Project Number: 6075066

Client Project ID: JIC

Lab Sample No: 606461887
Client Sample ID: 155124SEP03

Project Sample Number: 6075066-002

Matrix: Water

Date Collected: 09/24/03 15:51

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	5800	ug/l	100	50.0	10/07/03 10:39	ARF	71-43-2		
Ethylbenzene	320	ug/l	100	50.0	10/07/03 10:39	ARF	100-41-4		
Toluene	7300	ug/l	100	50.0	10/07/03 10:39	ARF	108-88-3		
Xylene (Total)	5700	ug/l	250	50.0	10/07/03 10:39	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	10/07/03 10:39	ARF	98-08-8		

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Lab Project Number: 6075066
Client Project ID: JIC

Lab Sample No: 606461895 Project Sample Number: 6075066-003 Date Collected: 09/24/03 15:43
Client Sample ID: 154324SEP03 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	190	ug/l	2.0	1.0	10/06/03 15:59	ARF	71-43-2		
Ethylbenzene	57.	ug/l	2.0	1.0	10/06/03 15:59	ARF	100-41-4		
Toluene	45.	ug/l	2.0	1.0	10/06/03 15:59	ARF	108-88-3		
Xylene (Total)	60.	ug/l	5.0	1.0	10/06/03 15:59	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	98	%		1.0	10/06/03 15:59	ARF	98-08-8		

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Lab Project Number: 6075066
Client Project ID: JIC

Lab Sample No: 606461903 Project Sample Number: 6075066-004 Date Collected: 09/24/03 16:43
Client Sample ID: 162324SEP03 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	18000	ug/l	200	100	10/07/03 12:25	ARF	71-43-2		
Ethylbenzene	370	ug/l	100	50.0	10/07/03 11:05	ARF	100-41-4		
Toluene	1200	ug/l	100	50.0	10/07/03 11:05	ARF	108-88-3		
Xylene (Total)	2000	ug/l	250	50.0	10/07/03 11:05	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	98	%		1.0	10/07/03 11:05	ARF	98-08-8	1	

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Lab Project Number: 6075066
Client Project ID: JIC

Lab Sample No: 606461911 Project Sample Number: 6075066-005 Date Collected: 09/24/03 15:35
Client Sample ID: 153524SEP03 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	78.	ug/l	2.0	1.0	10/07/03 11:32	ARF	71-43-2		
Ethylbenzene	4.2	ug/l	2.0	1.0	10/07/03 11:32	ARF	100-41-4		
Toluene	2.2	ug/l	2.0	1.0	10/07/03 11:32	ARF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/07/03 11:32	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	10/07/03 11:32	ARF	98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075066
Client Project ID: JIC

Lab Sample No: 606461929 Project Sample Number: 6075066-006 Date Collected: 09/24/03 16:13
Client Sample ID: 161324SEP03 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	86.	ug/l	2.0	1.0	10/06/03 17:19	ARF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/06/03 17:19	ARF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/06/03 17:19	ARF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/06/03 17:19	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		1.0	10/06/03 17:19	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.

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Lab Project Number: 6075066
Client Project ID: JIC

METHOD BLANK: 606482669

Associated Lab Samples:	606461879	606461887	606461895	606461903	606461911	606461929
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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)	%	100		

LABORATORY CONTROL SAMPLE: 606482677

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	20.18	101	85-120	
Ethylbenzene	ug/l	20.00	19.12	96	87-114	
Toluene	ug/l	20.00	21.26	106	87-114	
Xylene (Total)	ug/l	60.00	56.08	94	88-115	
a,a,a-Trifluorotoluene (S)				104	86-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606483386 606483394

Parameter	Units	606461911 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Footnotes
Benzene	ug/l	78.23	20.00	87.96	89.19	49	55	82-121	1	16	1,1
Ethylbenzene	ug/l	4.234	20.00	21.77	21.47	88	86	84-114	1	14	
Toluene	ug/l	2.200	20.00	20.44	20.27	91	90	85-112	1	18	
Xylene (Total)	ug/l	0	60.00	53.39	53.17	89	89	83-115	0	16	
a,a,a-Trifluorotoluene (S)						102	99	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] Matrix (MS) and or surrogate spike recovery (S) was affected by the sample matrix. Refer to the batch QC recoveries (Blank and LCS) to demonstrate that the analytical system was operating 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

December 23, 2003

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

RE: Lab Project Number: 6077817
Client Project ID: SJB-GW 12/17/03 *JIC*

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: 6077817

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

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>
6077817-001	606699122	144217DEC03	Water	12/17/03 14:42	12/19/03 10:00
6077817-002	606699130	141217DEC03	Water	12/17/03 14:12	12/19/03 10:00
6077817-003	606699148	140517DEC03	Water	12/17/03 14:05	12/19/03 10:00
6077817-004	606699155	151817DEC03	Water	12/17/03 15:18	12/19/03 10:00
6077817-005	606699163	143017DEC03	Water	12/17/03 14:30	12/19/03 10:00
6077817-006	606699171	150517DEC03	Water	12/17/03 15:05	12/19/03 10:00

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077817

Client Project ID: SJB-GW 12/17/03 JK

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>
6077817-001	606699122	144217DEC03	8020 WPAC	Aromatic Volatile Organics	5
6077817-002	606699130	141217DEC03	8020 WPAC	Aromatic Volatile Organics	5
6077817-003	606699148	140517DEC03	8020 WPAC	Aromatic Volatile Organics	5
6077817-004	606699155	151817DEC03	8020 WPAC	Aromatic Volatile Organics	5
6077817-005	606699163	143017DEC03	8020 WPAC	Aromatic Volatile Organics	5
6077817-006	606699171	150517DEC03	8020 WPAC	Aromatic Volatile Organics	5

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077817

Client Project ID: SJB-GW 12/17/03 JIC

Lab Sample No: 606699122
Client Sample ID: 144217DEC03

Project Sample Number: 6077817-001

Matrix: Water

Date Collected: 12/17/03 14:42

Date Received: 12/19/03 10:00

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	2.5	ug/l	2.0	1.0	12/22/03 20:01		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/22/03 20:01		100-41-4		
Toluene	5.9	ug/l	2.0	1.0	12/22/03 20:01		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/22/03 20:01		1330-20-7		
a,a,a-Trifluorotoluene (S)	106	%		1.0	12/22/03 20:01		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077817

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

Lab Sample No: 606699130
Client Sample ID: 141217DEC03

Project Sample Number: 6077817-002
Matrix: Water

Date Collected: 12/17/03 14:12
Date Received: 12/19/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	4900	ug/l	100	50.0	12/22/03 11:47		71-43-2		
Ethylbenzene	280	ug/l	100	50.0	12/22/03 11:47		100-41-4		
Toluene	5300	ug/l	100	50.0	12/22/03 11:47		108-88-3		
Xylene (Total)	5200	ug/l	250	50.0	12/22/03 11:47		1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		1.0	12/22/03 11:47		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077817

Client Project ID: SJB-GW 12/17/03 JIC

Lab Sample No: 606699148
Client Sample ID: 140517DEC03

Project Sample Number: 6077817-003
Matrix: Water

Date Collected: 12/17/03 14:05
Date Received: 12/19/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	200	ug/l	2.0	1.0	12/22/03 12:14		71-43-2		
Ethylbenzene	58.	ug/l	2.0	1.0	12/22/03 12:14		100-41-4		
Toluene	2.9	ug/l	2.0	1.0	12/22/03 12:14		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/22/03 12:14		1330-20-7		
a,a,a-Trifluorotoluene (S)	105	%		1.0	12/22/03 12:14		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077817

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

Lab Sample No: 606699155
Client Sample ID: 151817DEC03

Project Sample Number: 6077817-004
Matrix: Water

Date Collected: 12/17/03 15:18
Date Received: 12/19/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	21000	ug/l	400	200	12/22/03 12:42		71-43-2		
Ethylbenzene	500	ug/l	400	200	12/22/03 12:42		100-41-4		
Toluene	ND	ug/l	400	200	12/22/03 12:42		108-88-3		
Xylene (Total)	2200	ug/l	1000	200	12/22/03 12:42		1330-20-7		
a,a,a-Trifluorotoluene (S)	104	%		1.0	12/22/03 12:42		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077817

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

Lab Sample No: 606699163
Client Sample ID: 143017DEC03

Project Sample Number: 6077817-005
Matrix: Water

Date Collected: 12/17/03 14:30
Date Received: 12/19/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	55.	ug/l	2.0	1.0	12/22/03 13:09		71-43-2		
Ethylbenzene	3.2	ug/l	2.0	1.0	12/22/03 13:09		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/22/03 13:09		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/22/03 13:09		1330-20-7		
a,a,a-Trifluorotoluene (S)	107	%		1.0	12/22/03 13:09		98-08-8		

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Lab Project Number: 6077817

Client Project ID: SJB-GW 12/17/03 JIC

Lab Sample No: 606699171
Client Sample ID: 150517DEC03

Project Sample Number: 6077817-006
Matrix: Water

Date Collected: 12/17/03 15:05
Date Received: 12/19/03 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	69.	ug/l	2.0	1.0	12/22/03 13:37		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/22/03 13:37		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/22/03 13:37		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/22/03 13:37		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	12/22/03 13:37		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: 6077817

Client Project ID: SJB-GW 12/17/03

QC Batch: 159545
QC Batch Method: EPA 8021
Associated Lab Samples: 606699122 606699130 606699148 606699155 606699163 606699171

Analysis Method: EPA 8021
Analysis Description: Aromatic Volatile Organics

METHOD BLANK: 606701878

Associated Lab Samples: 606699122 606699130 606699148 606699155 606699163 606699171

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			

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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