

3R – 321

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".

Mark Harvey
Project Coordinator

Enclosure – 2003 Ground Water Summary Report

Cc: Bill Liess, BLM Farmington Office

Site Summary Report

Site Name: Honolulu Line Drip

Reporting Period: 2003

Location: Unit B, Sec 15, Twn 26N, Rng 4W

Canyon: Tapicito

Operator: Williams

Vulnerable Class: sensitive

OCD Ranking: 40

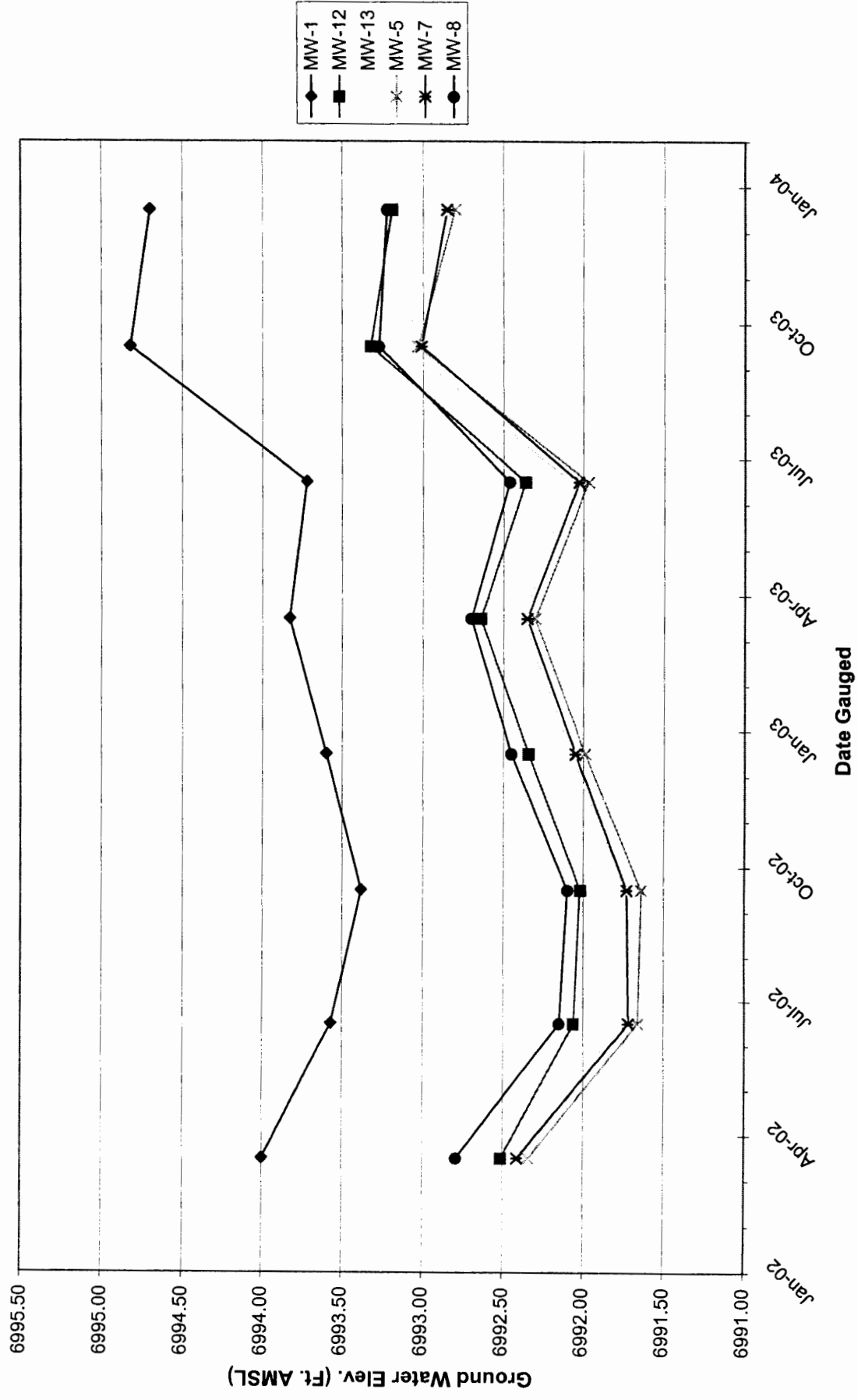
Lead Agency: NMOCD / JAEPO

Status Narrative

Twenty-seven quarters of water quality data have been collected at this site. A total of six monitoring wells are installed. Currently, only well MW-12 located immediately downgradient of the former source area has failed to demonstrate four consecutive quarters of water quality data below the cleanup standards. In the first and fourth quarters of the period, benzene concentrations were less than 10 ppb. However, in the second and third quarters benzene levels were 31 and 14 ppb, respectively. Well MW-3, which had no detectable BTEX throughout all of 2002 and the first two quarters of this year, had a total BTEX concentration of 1005.9 ppb in the third quarter. In the fourth quarter, BTEX levels were back to non-detect. It is believed that this spike in concentrations was due to possible cross contamination.

Potentiometric surface maps (Figure 2) depict a west by north ground water flow direction at an average hydraulic gradient of 0.01. No significant seasonal variations in flow direction or gradient are evident. The enclosed hydrograph illustrates seasonal fluctuations in water-table elevations.

Honolulu Drip Hydrograph



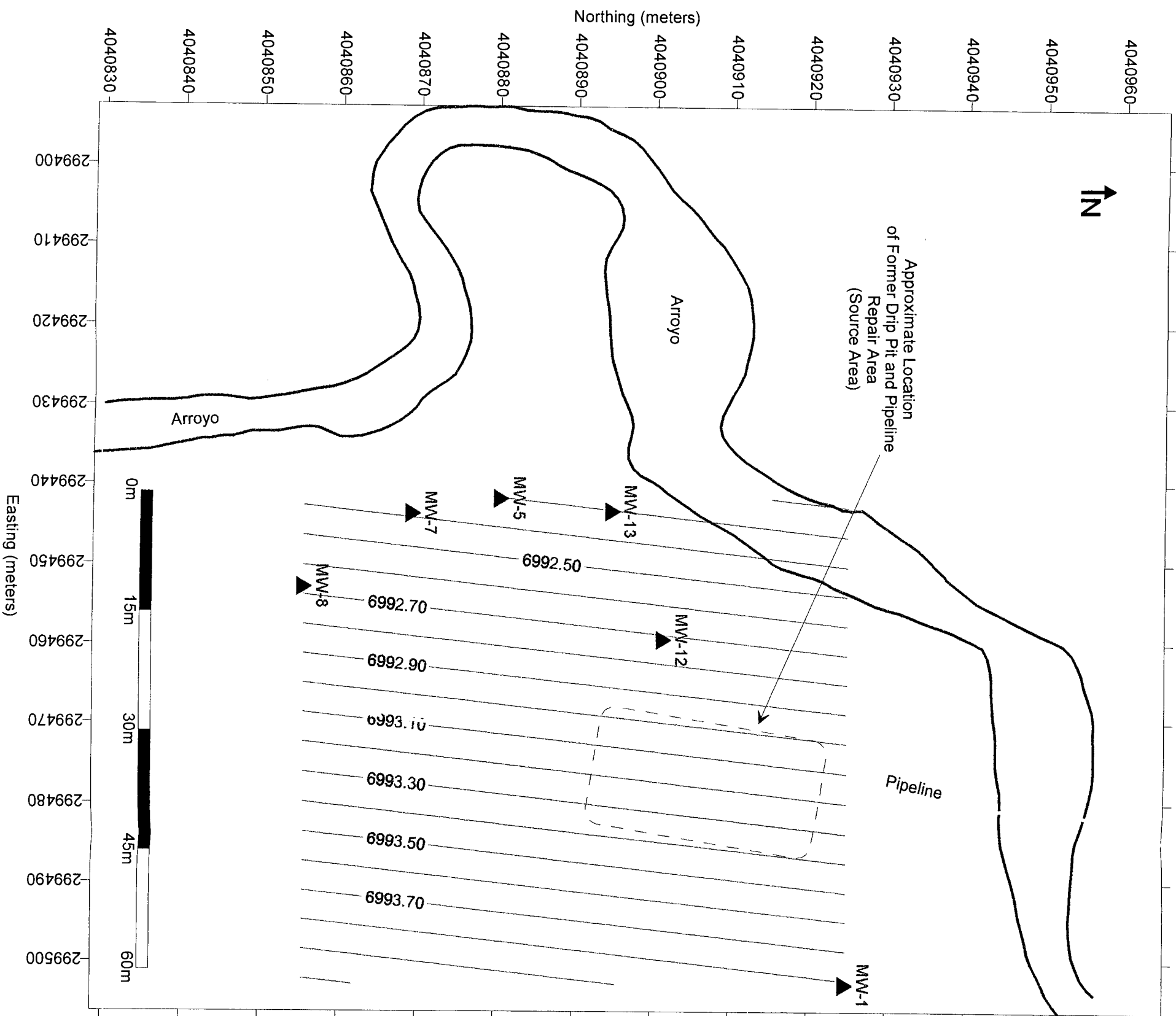
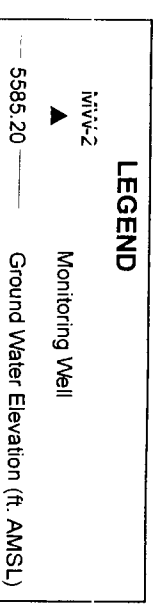


Figure 2
Potentiometric
Surface Map
Honolulu Line Drip
(March 13, 2003)



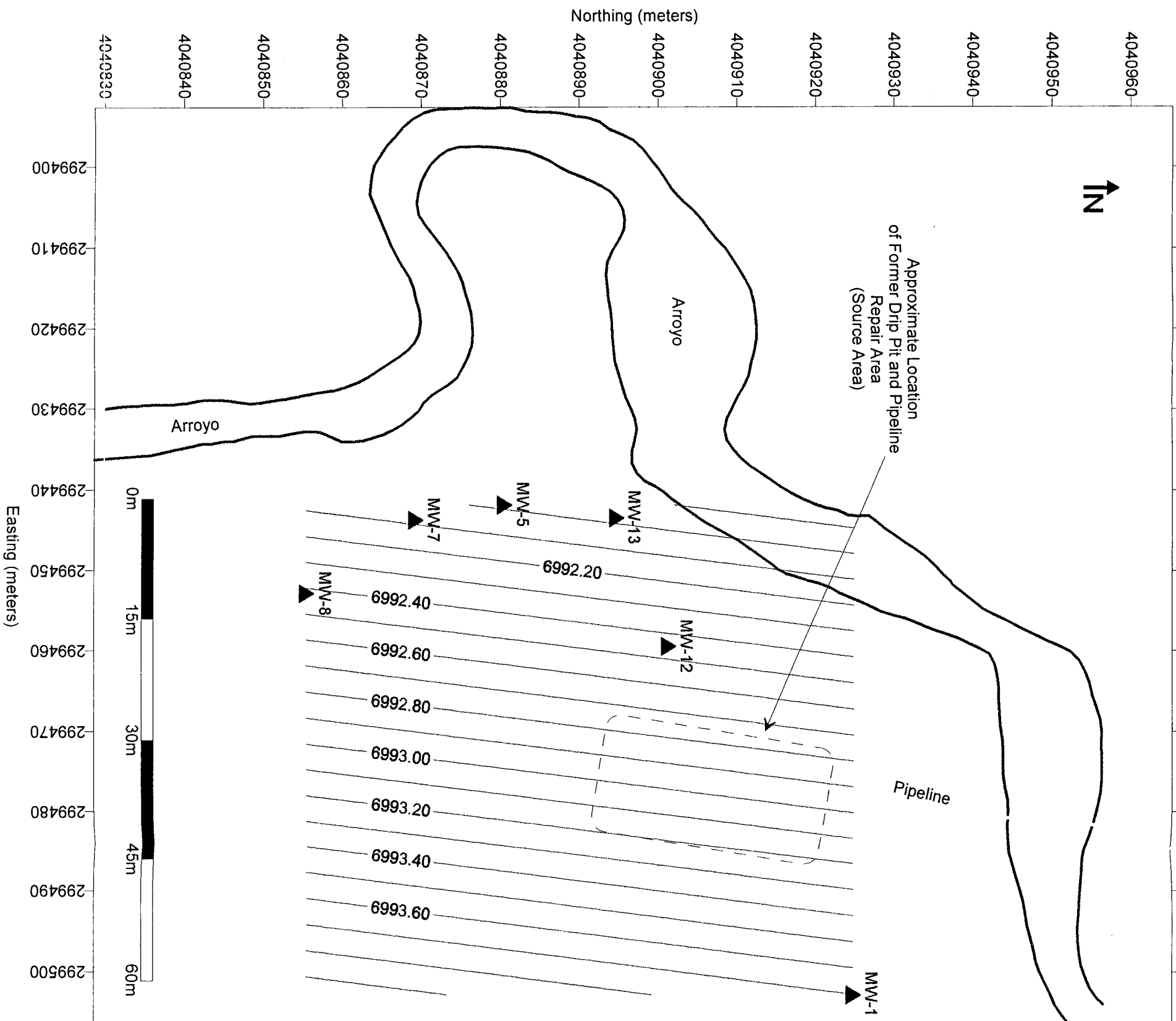


Figure 2
Potentiometric
Surface Map
Honolulu Line Drip
(June 3, 2003)

LEGEND

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

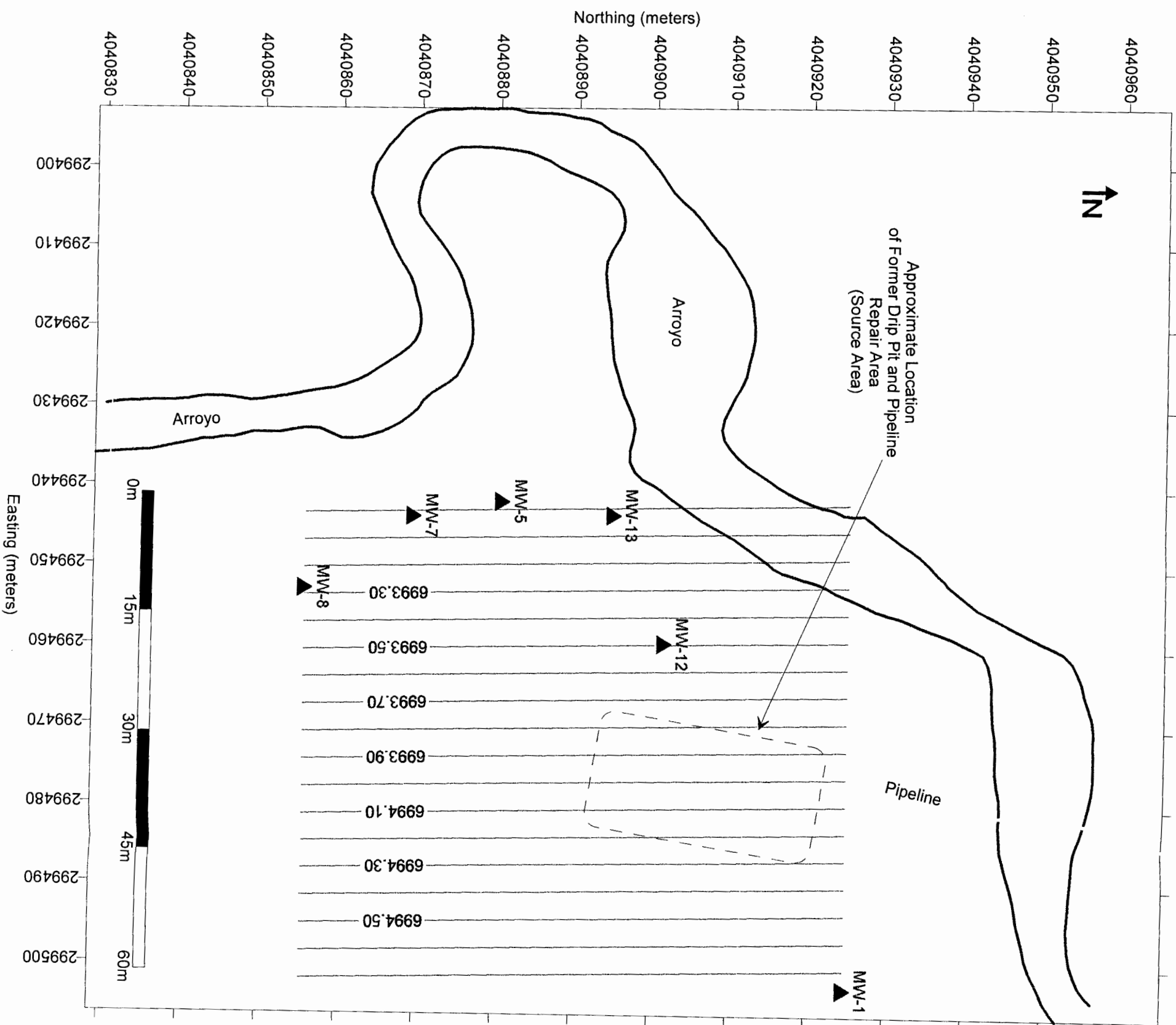


Figure 2
Potentiometric
Surface Map
Honolulu Line Drip
(September 19, 2003)

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

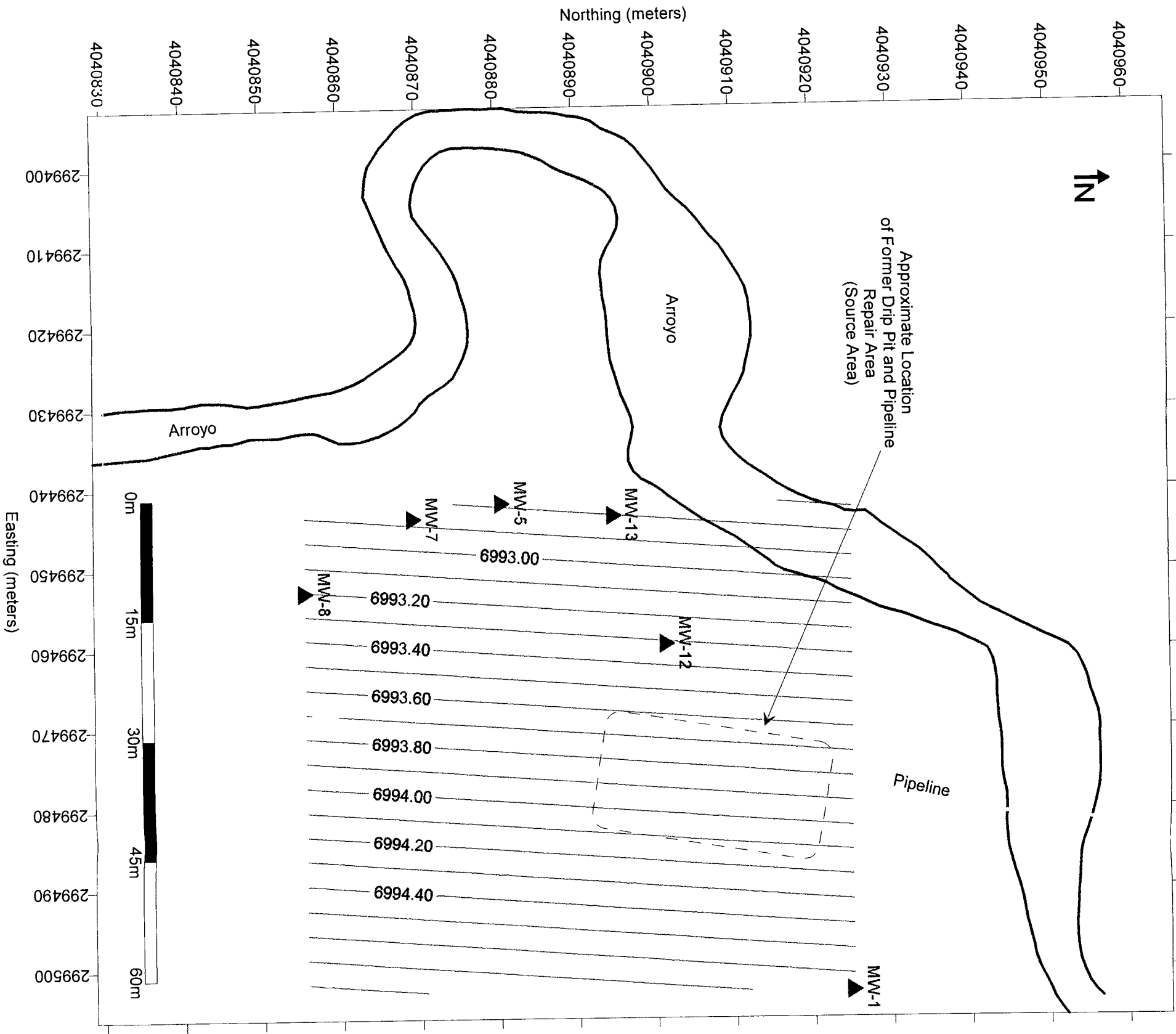


Figure 2
Potentiometric
Surface Map
Honolulu Line Drip
(December 14, 2003)

LEGEND

MW-2



Monitoring Well

5585.20 ————— Ground Water Elevation (ft. AMSL)

Analytical Data Summary

Site Name:
Honolulu Drip

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						
	3/13/03	141613MAR03	ND	ND	ND	ND
	6/3/03	081203JUN03	ND	ND	ND	ND
	9/19/03	113419SEP03	ND	ND	ND	ND
MW-12						
	3/13/03	151113MAR03	2.1	ND	ND	ND
	6/3/03	082303JUN03	31.	ND	ND	6.2
	9/19/03	131819SEP03	14.	ND	ND	ND
	12/14/03	121314DEC03	9.1	ND	ND	ND
MW-13						
	3/13/03	145813MAR03	ND	ND	ND	ND
	6/3/03	083303JUN03	ND	ND	ND	ND
	9/19/03	130919SEP03	53.	2.9	120	830
	12/14/03	120514DEC03	ND	ND	ND	ND
MW-5						
	3/13/03	145013MAR03	ND	ND	ND	ND
	6/3/03	084403JUN03	ND	ND	ND	ND
	9/19/03	125919SEP03	ND	ND	ND	ND
	12/14/03	115714DEC03	ND	ND	ND	ND
MW-7						
	3/13/03	144013MAR03	ND	ND	ND	ND
	6/3/03	085603JUN03	ND	ND	ND	ND
	9/19/03	125119SEP03	ND	ND	ND	ND
	12/14/03	114714DEC03	ND	ND	ND	ND
MW-8						
	9/19/03	123819SEP03	ND	ND	ND	ND
	12/14/03	113514DEC03	ND	ND	ND	ND



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

March 25, 2003

Mr. Jim Struhs
MILE HIGH ENVIRONMENTAL
187 C.R. 4980
Bloomfield, NM 87413

RE: Lab Project Number: 6068571
Client Project ID: SJB-GW HON

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on March 20, 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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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: 6068571

Client Project ID: SJB-GW HON

Project Sample Number	Sample Number	Client Sample ID	Matrix	Date Collected	Date Received
6068571-001	605913086	141613MAR03	Water	03/13/03 14:16	03/20/03 09:30
6068571-002	605913094	144013MAR03	Water	03/13/03 14:40	03/20/03 09:30
6068571-003	605913102	145013MAR03	Water	03/13/03 14:50	03/20/03 09:30
6068571-004	605913110	145813MAR03	Water	03/13/03 14:58	03/20/03 09:30
6068571-005	605913128	151113MAR03	Water	03/13/03 15:11	03/20/03 09:30

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6068571
Client Project ID: SJB-GW HON

Lab Sample No: 605913086 Project Sample Number: 6068571-001 Date Collected: 03/13/03 14:16
Client Sample ID: 141613MAR03 Matrix: Water Date Received: 03/20/03 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	03/21/03 22:44	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	03/21/03 22:44	JPR	100-41-4		
Toluene	ND	ug/l	2.0	1.0	03/21/03 22:44	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	03/21/03 22:44	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		1.0	03/21/03 22:44	JPR	98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6068571
Client Project ID: SJB-GW HON

Lab Sample No: 605913094 Project Sample Number: 6068571-002 Date Collected: 03/13/03 14:40
Client Sample ID: 144013MAR03 Matrix: Water Date Received: 03/20/03 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	03/21/03 23:14	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	03/21/03 23:14	JPR	100-41-4		
Toluene	ND	ug/l	2.0	1.0	03/21/03 23:14	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	03/21/03 23:14	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		1.0	03/21/03 23:14	JPR	98-08-8		

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Lab Project Number: 6068571
Client Project ID: SJB-GW HON

Lab Sample No: 605913102 Project Sample Number: 6068571-003 Date Collected: 03/13/03 14:50
Client Sample ID: 145013MAR03 Matrix: Water Date Received: 03/20/03 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	03/21/03 23:44	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	03/21/03 23:44	JPR	100-41-4		
Toluene	ND	ug/l	2.0	1.0	03/21/03 23:44	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	03/21/03 23:44	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		1.0	03/21/03 23:44	JPR	98-08-8		

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Lab Project Number: 6068571

Client Project ID: SJB-GW HON

Lab Sample No: 605913110

Project Sample Number: 6068571-004

Date Collected: 03/13/03 14:58

Client Sample ID: 145813MAR03

Matrix: Water

Date Received: 03/20/03 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	03/22/03 02:41	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	03/22/03 02:41	JPR	100-41-4		
Toluene	ND	ug/l	2.0	1.0	03/22/03 02:41	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	03/22/03 02:41	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		1.0	03/22/03 02:41	JPR	98-08-8		

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Lab Sample No: 605913128

Client Sample ID: 151113MAR03

Project Sample Number: 6068571-005

Matrix: Water

Date Collected: 03/13/03 15:11

Date Received: 03/20/03 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	2.1	ug/l	2.0	1.0	03/22/03 03:11	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	03/22/03 03:11	JPR	100-41-4		
Toluene	ND	ug/l	2.0	1.0	03/22/03 03:11	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	03/22/03 03:11	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	03/22/03 03:11	JPR	98-08-8		

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Lab Project Number: 6068571
Client Project ID: SJB-GW HON

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: 6068571
Client Project ID: SJB-GW HON

QC Batch: 141255 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 605913086 605913094 605913102 605913110 605913128

METHOD BLANK: 605915107
Associated Lab Samples: 605913086 605913094 605913102 605913110 605913128

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: 605915115

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	20.93	105	85-120	
Ethylbenzene	ug/l	20.00	20.93	105	87-114	
Toluene	ug/l	20.00	20.68	103	87-114	
Xylene (Total)	ug/l	60.00	63.19	105	88-115	
a,a,a-Trifluorotoluene (S)				101	86-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605915313 605915321

Parameter	Units	605913094 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0	20.00	22.15	21.67	111	108	82-121	2	16	
Ethylbenzene	ug/l	0	20.00	21.09	21.11	106	106	84-114	0	14	
Toluene	ug/l	0	20.00	21.35	20.91	107	105	85-112	2	18	
Xylene (Total)	ug/l	0.9562	60.00	60.48	60.77	99	100	83-115	0	16	
a,a,a-Trifluorotoluene (S)						103	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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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: 6071171
Client Project ID: SJBGW-HON

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: 6071171
Client Project ID: SJBGW-H0N

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>
6071171-001	606131340	081203JUN03	Water	06/03/03 08:12	06/05/03 09:15
6071171-002	606131357	082303JUN03	Water	06/03/03 08:23	06/05/03 09:15
6071171-003	606131365	083303JUN03	Water	06/03/03 08:33	06/05/03 09:15
6071171-004	606131373	084403JUN03	Water	06/03/03 08:44	06/05/03 09:15
6071171-005	606131381	085603JUN03	Water	06/03/03 08:56	06/05/03 09:15

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071171
Client Project ID: SJBGW-HON

Project			Analysis		Analysis Description	Analytes Reported
Sample Number	Sample No	Client Sample ID	Code			
6071171-001	606131340	081203JUN03	8020	WPAC	Aromatic Volatile Organics	5
6071171-002	606131357	082303JUN03	8020	WPAC	Aromatic Volatile Organics	5
6071171-003	606131365	083303JUN03	8020	WPAC	Aromatic Volatile Organics	5
6071171-004	606131373	084403JUN03	8020	WPAC	Aromatic Volatile Organics	5
6071171-005	606131381	085603JUN03	8020	WPAC	Aromatic Volatile Organics	5

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071171
Client Project ID: SJBGW-HON

Lab Sample No: 606131340 Project Sample Number: 6071171-001 Date Collected: 06/03/03 08:12
Client Sample ID: 081203JUN03 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 23:18 ARF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/06/03 23:18 ARF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/06/03 23:18 ARF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	06/06/03 23:18 ARF		1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		1.0	06/06/03 23:18 ARF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071171
Client Project ID: SJBGW-HON

Lab Sample No: 606131357 Project Sample Number: 6071171-002 Date Collected: 06/03/03 08:23
Client Sample ID: 082303JUN03 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	31.	ug/l	2.0	1.0	06/06/03 23:48 ARF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/06/03 23:48 ARF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/06/03 23:48 ARF		108-88-3		
Xylene (Total)	6.2	ug/l	5.0	1.0	06/06/03 23:48 ARF		1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		1.0	06/06/03 23:48 ARF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071171

Client Project ID: SJBGW-HON

Lab Sample No: 606131365

Project Sample Number: 6071171-003

Date Collected: 06/03/03 08:33

Client Sample ID: 083303JUN03

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	ND	ug/l	2.0	1.0	06/07/03 00:18	ARF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/07/03 00:18	ARF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/07/03 00:18	ARF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	06/07/03 00:18	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	95	%		1.0	06/07/03 00:18	ARF	98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071171
Client Project ID: SJBGW-HON

Lab Sample No: 606131373 Project Sample Number: 6071171-004 Date Collected: 06/03/03 08:44
Client Sample ID: 084403JUN03 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	ND	ug/l	2.0	1.0	06/07/03 00:49	ARF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/07/03 00:49	ARF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/07/03 00:49	ARF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	06/07/03 00:49	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		1.0	06/07/03 00:49	ARF	98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071171
Client Project ID: SJBGW-H0N

Lab Sample No: 606131381 Project Sample Number: 6071171-005 Date Collected: 06/03/03 08:56
Client Sample ID: 085603JUN03 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	ND	ug/l	2.0	1.0	06/07/03 01:19	ARF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/07/03 01:19	ARF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/07/03 01:19	ARF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	06/07/03 01:19	ARF	1330-20-7		
a,a,a-Trifluorotoluene (S)	96	%		1.0	06/07/03 01:19	ARF	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

Lab Project Number: 6071171
Client Project ID: SJBGW-HON

QC Batch: 146400 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 606131340 606131357 606131365 606131373 606131381

METHOD BLANK: 606132967
Associated Lab Samples: 606131340 606131357 606131365 606131373 606131381

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	Max 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

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 02, 2003

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

RE: Lab Project Number: 6075063
Client Project ID: HDN

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: 6075063
Client Project ID: HDN

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>
6075063-001	606461614	113419SEP03	Water	09/19/03 11:34	09/26/03 08:55
6075063-002	606461622	125919SEP03	Water	09/19/03 12:59	09/26/03 08:55
6075063-003	606461630	125119SEP03	Water	09/19/03 12:51	09/26/03 08:55
6075063-004	606461648	123819SEP03	Water	09/19/03 12:38	09/26/03 08:55
6075063-005	606461655	131819SEP03	Water	09/19/03 13:18	09/26/03 08:55
6075063-006	606461663	130919SEP03	Water	09/19/03 13:09	09/26/03 08:55

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075063
Client Project ID: HDN

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>	
6075063-001	606461614	113419SEP03	8020 WPAC	Aromatic Volatile Organics	5	
6075063-002	606461622	125919SEP03	8020 WPAC	Aromatic Volatile Organics	5	
6075063-003	606461630	125119SEP03	8020 WPAC	Aromatic Volatile Organics	5	
6075063-004	606461648	123819SEP03	8020 WPAC	Aromatic Volatile Organics	5	
6075063-005	606461655	131819SEP03	8020 WPAC	Aromatic Volatile Organics	5	
6075063-006	606461663	130919SEP03	8020 WPAC	Aromatic Volatile Organics	5	

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075063
Client Project ID: HDN

Lab Sample No: 606461614 Project Sample Number: 6075063-001 Date Collected: 09/19/03 11:34
Client Sample ID: 113419SEP03 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	09/29/03 23:31 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	09/29/03 23:31 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	09/29/03 23:31 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	09/29/03 23:31 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	98	%		1.0	09/29/03 23:31 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075063
Client Project ID: HDN

Lab Sample No: 606461622 Project Sample Number: 6075063-002 Date Collected: 09/19/03 12:59
Client Sample ID: 125919SEP03 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	09/30/03 00:11 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	09/30/03 00:11 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	09/30/03 00:11 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	09/30/03 00:11 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	98	%		1.0	09/30/03 00:11 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075063
Client Project ID: HDN

Lab Sample No: 606461630 Project Sample Number: 6075063-003 Date Collected: 09/19/03 12:51
Client Sample ID: 125119SEP03 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	09/30/03 00:45 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	09/30/03 00:45 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	09/30/03 00:45 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	09/30/03 00:45 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	98	%		1.0	09/30/03 00:45 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075063
Client Project ID: HDN

Lab Sample No: 606461648 Project Sample Number: 6075063-004 Date Collected: 09/19/03 12:38
Client Sample ID: 123819SEP03 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	10/01/03 15:30 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/01/03 15:30 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/01/03 15:30 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/01/03 15:30 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	113	%		1.0	10/01/03 15:30 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075063
Client Project ID: HDN

Lab Sample No: 606461655 Project Sample Number: 6075063-005 Date Collected: 09/19/03 13:18
Client Sample ID: 131819SEP03 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	14.	ug/l	2.0	1.0	09/30/03 14:41 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	09/30/03 14:41 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	09/30/03 14:41 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	09/30/03 14:41 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	98	%		1.0	09/30/03 14:41 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075063
Client Project ID: HDN

Lab Sample No: 606461663 Project Sample Number: 6075063-006 Date Collected: 09/19/03 13:09
Client Sample ID: 130919SEP03 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	53.	ug/l	2.0	1.0	09/30/03 15:08 SHF		71-43-2		
Ethylbenzene	120	ug/l	2.0	1.0	09/30/03 15:08 SHF		100-41-4		
Toluene	2.9	ug/l	2.0	1.0	09/30/03 15:08 SHF		108-88-3		
Xylene (Total)	830	ug/l	12.	2.5	10/01/03 11:25 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	09/30/03 15:08 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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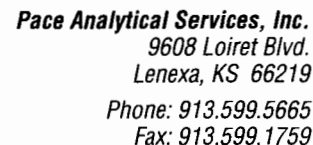
PARAMETER FOOTNOTES

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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Lab Project Number: 6075063
Client Project ID: HDN

METHOD BLANK: 606462091

Associated Lab Samples:	606461614	606461622	606461630	606461648	606461655	606461663
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LABORATORY CONTROL SAMPLE: 606462109

<u>Parameter</u>	<u>Units</u>	<u>Spike Conc.</u>	<u>LCS Result</u>	<u>LCS % Rec</u>	<u>% Rec Limits</u>	<u>Footnotes</u>
Benzene	ug/l	20.00	20.55	103	85-120	
Ethylbenzene	ug/l	20.00	19.54	98	87-114	
Toluene	ug/l	20.00	19.89	99	87-114	
Xylene (Total)	ug/l	60.00	57.46	96	88-115	
a,a,a-Trifluorotoluene (S)				95	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] The MS and/or MSD compound(s) recovery information is not available due to insufficient sample volume. The 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

December 22, 2003

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

RE: Lab Project Number: 6077647
Client Project ID: SJB-GW/HON

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 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: 6077647
Client Project ID: SJB-GW/HON

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>
6077647-001	606685527	120514DEC03	Water	12/14/03 12:05	12/16/03 09:05
6077647-002	606685535	115714DEC03	Water	12/14/03 11:57	12/16/03 09:05
6077647-003	606685543	121314DEC03	Water	12/14/03 12:13	12/16/03 09:05
6077647-004	606685550	114714DEC03	Water	12/14/03 11:47	12/16/03 09:05
6077647-005	606685568	113514DEC03	Water	12/14/03 11:35	12/16/03 09:05

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077647

Client Project ID: SJB-GW/HON

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>	
6077647-001	606685527	120514DEC03	8020 WPAC	Aromatic Volatile Organics	5	
6077647-002	606685535	115714DEC03	8020 WPAC	Aromatic Volatile Organics	5	
6077647-003	606685543	121314DEC03	8020 WPAC	Aromatic Volatile Organics	5	
6077647-004	606685550	114714DEC03	8020 WPAC	Aromatic Volatile Organics	5	
6077647-005	606685568	113514DEC03	8020 WPAC	Aromatic Volatile Organics	5	

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077647
Client Project ID: SJB-GW/HON

Lab Sample No: 606685527 Project Sample Number: 6077647-001 Date Collected: 12/14/03 12:05
Client Sample ID: 120514DEC03 Matrix: Water Date Received: 12/16/03 09:05

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	12/18/03 13:06		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/18/03 13:06		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/18/03 13:06		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/18/03 13:06		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	12/18/03 13:06		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077647
Client Project ID: SJB-GW/HON

Lab Sample No: 606685535 Project Sample Number: 6077647-002 Date Collected: 12/14/03 11:57
Client Sample ID: 115714DEC03 Matrix: Water Date Received: 12/16/03 09:05

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	12/18/03 13:34		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/18/03 13:34		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/18/03 13:34		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/18/03 13:34		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	12/18/03 13:34		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077647
Client Project ID: SJB-GW/HON

Lab Sample No: 606685543 Project Sample Number: 6077647-003 Date Collected: 12/14/03 12:13
Client Sample ID: 121314DEC03 Matrix: Water Date Received: 12/16/03 09:05

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	9.1	ug/l	2.0	1.0	12/18/03 14:01		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/18/03 14:01		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/18/03 14:01		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/18/03 14:01		1330-20-7		
a,a,a-Trifluorotoluene (S)	104	%		1.0	12/18/03 14:01		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077647
Client Project ID: SJB-GW/HON

Lab Sample No: 606685550 Project Sample Number: 6077647-004 Date Collected: 12/14/03 11:47
Client Sample ID: 114714DEC03 Matrix: Water Date Received: 12/16/03 09:05

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	12/18/03 14:28		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/18/03 14:28		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/18/03 14:28		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/18/03 14:28		1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		1.0	12/18/03 14:28		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077647
Client Project ID: SJB-GW/HON

Lab Sample No: 606685568 Project Sample Number: 6077647-005 Date Collected: 12/14/03 11:35
Client Sample ID: 113514DEC03 Matrix: Water Date Received: 12/16/03 09:05

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	12/19/03 08:58		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/19/03 08:58		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/19/03 08:58		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/19/03 08:58		1330-20-7		
a,a,a-Trifluorotoluene (S)	104	%		1.0	12/19/03 08:58		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

Lab Project Number: 6077647
Client Project ID: SJB-GW/HON

QC Batch: 159342 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 606685527 606685535 606685543 606685550 606685568

METHOD BLANK: 606690717
Associated Lab Samples: 606685527 606685535 606685543 606685550 606685568

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)	%	103		

LABORATORY CONTROL SAMPLE: 606690725

Parameter	Units	Spike	LCS	LCS	% Rec	Footnotes
		Conc.	Result	% Rec	Limits	
Benzene	ug/l	20.00	19.87	99	85-120	
Ethylbenzene	ug/l	20.00	20.11	101	87-114	
Toluene	ug/l	20.00	19.71	99	87-114	
Xylene (Total)	ug/l	60.00	62.28	104	88-115	
a,a,a-Trifluorotoluene (S)				103	86-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606692267 606692275

Parameter	Units	606685485	Spike	MS	MSD	MS	MSD	% Rec	Max	Footnotes
		Result	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Benzene	ug/l	0.1991	20.00	20.08	20.04	99	99	82-121	0	16
Ethylbenzene	ug/l	0.2674	20.00	20.24	20.35	100	100	84-114	1	14
Toluene	ug/l	0.1851	20.00	19.71	19.80	98	98	85-112	0	18
Xylene (Total)	ug/l	0.1585	60.00	62.57	62.41	104	104	83-115	0	16
a,a,a-Trifluorotoluene (S)						103	103	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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